

ANNUAL MEETING ON PHOTOCHEMISTRY 2021 SEPTEMBER 14-16, 2021



# 2021年 光化学討論会 講演プログラム

2021年9月14日（火）～16日（木）

オンライン開催

主催：光化学協会

共催：日本化学会・日本化学会光化学ディビジョン

【広告企業一覧】

|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| MSH システムズ 株式会社★                | MSH systems, Inc.                                               |
| 株式会社 セルシステム★                   | CELL System Co., Ltd.                                           |
| 株式会社 東京インスツルメンツ★               | Tokyo Instruments, Inc.                                         |
| 浜松ホトニクス 株式会社★                  | Hamamatsu Photonics K. K.                                       |
| 株式会社 ユニソク★                     | UNISOKU Co., Ltd.                                               |
| AkiTech LEO 株式会社               | AkiTech LEO inc.                                                |
| 株式会社 島津製作所                     | SHIMADZU CORPORATION                                            |
| 三菱ガス化学 株式会社                    | MITSUBISHI GAS CHEMICAL COMPANY, INC.                           |
| 株式会社 リガク                       | Rigaku Corporation                                              |
| 大塚電子 株式会社★                     | Otsuka Electronics Co.,Ltd.                                     |
| 保土谷化学工業 株式会社★                  | Hodogaya Chemical Co.,Ltd.                                      |
| 株式会社アズマテクノス/日本分光 株式会社/株式会社 リガク | AzumaTechnos Co., Ltd./<br>JASCO Corporation/Rigaku Corporation |
| 鐘通化学薬品 株式会社/純正化学 株式会社          | Kanetuu Corporation/<br>JUNSEI CHEMICAL CO., LTD.               |
| セン特殊光源 株式会社                    | SEN LIGHTS Corporation                                          |
| 株式会社 タケショー                     | Takesyo Food & Ingredients Inc.                                 |
| ナミックス 株式会社                     | NAMICS Corporation                                              |
| 北斗電工 株式会社                      | HOKUTO DENKO CORPORATION                                        |
| アズサイエンス 株式会社                   | AZ Science Co., Ltd.                                            |
| 島津サイエンス東日本 株式会社                | Shimadzu Science East Corporation                               |

【web 展示企業一覧】

|                    |                         |
|--------------------|-------------------------|
| MSH システムズ 株式会社★    | MSH systems, Inc.       |
| スペクトラ・フィジックス 株式会社★ | Spectra-Physics K. K.   |
| 株式会社 セルシステム★       | CELL System Co., Ltd.   |
| 株式会社 堀場製作所★        | HORIBA, Ltd.            |
| 株式会社 ユニソク★         | UNISOKU Co., Ltd.       |
| 株式会社 日本レーザー        | Japan Laser Corporation |

★光化学協会賛助会員

# 分光計測に最適な光源ラインナップ 可視～近赤外領域を幅広くカバー

## ダイオード励起ナノ秒OPO Q-Tuneシリーズ



最大出力  
5mJ@OPO



ファイバー出力  
オプションあり

- ◆波長 410 ～ 2300 nm (210 nm ～ @SHG)
- ◆パルス幅 5 ns
- ◆エネルギー 最大 5 mJ @OPO (@450nm)  
最大 50 mJ @基本波  
最大 20 mJ @SHG  
最大 20 mJ @THG
- ◆繰り返し周波数 最大 100 Hz
- ◆冷却水不要、メンテナンスフリー

## スーパーコンティニウム光源 SCシリーズ



最大出力  
20W



タッチパネル  
操作・高出力  
SC-Pro

- ◆広帯域発生 可視 (400 nm) ～ 近赤外 (2400 nm)
- ◆出力 >8 W@全波長域、1000 mW ～ @可視域
- ◆高繰り返し周波数 最大 200 MHz
- ◆外部トリガー制御オプションあり
- ◆ゲインスイッチモデルの他、モードロックモデルも提供
- ◆波長セクターで波長可変光源に

## 小型ダイオードレーザー Lambda Beam シリーズ



豊富な  
37 波長



空間出力モデル

ファイバー出力モデル  
(SM ファイバー、PM ファイバー)

- ◆豊富な波長ラインナップ 375 ～ 1064 nm
- ◆出力 5 ～ 1000 mW / 変調速度 最大1.5 MHz
- ◆高安定・高ビーム品質
- ◆コンパクト (ヘッド: 63.5×31×32.5 mm)
- ◆レーザーヘッド・コントローラー体型モデルあり
- ◆ラマン分光計測に最適なWa velockモデルあり  
- 狭線幅(0.1 pm～)、高波長安定性(<0.015 nm)



MSHシステムズ株式会社  
MSH Systems, Inc.

〒135-0042 東京都江東区木場6丁目6-6-201  
TEL:03-6659-7540 FAX:03-6659-7541  
<https://www.msh-systems.com>  
E-mail:sales@msh-systems.com

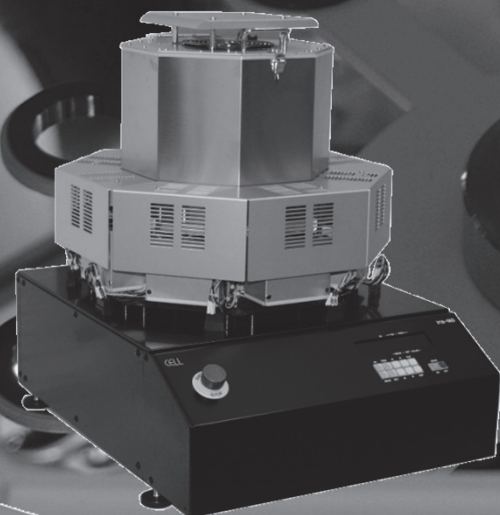


CELL

# セルシステムのLED光源

光反応の速度を求めるために最適な  
LEDメリーゴーラウンド型光照射装置

## Iris-MG



水銀灯の代替光源として高強度なLEDを採用!!

従来の高圧水銀灯を凌ぐ光出力であり、長寿命!!

光源の放熱を気にせず、高強度で安定した光パワーの制御が可能  
反応槽内の温度は室温+2℃以内

試験管が自転・公転する機能によりすべてのサンプルに  
同じ光量を照射可能

波長ごとに電流制御をしており、特定波長の取り出しが容易

## 高出力単色光源

## Iris-S



FWHM  $\leq 10\text{nm}$ の狭い帯域で高出力を実現するLED光源

自社開発の制御基板による電流制御で安定した電流制御が  
可能

光源部はLEDの為、長寿命

定光出力駆動モード (Auto Power Control) 搭載

LED光源ユニット交換が可能で、  
別売のLEDユニット (別波長) と交換ができます。

365nm~730nmの光源を用意しております。  
(この波長以外も対応可能です)

CELL 株式会社セルシステム

〒225-0012 神奈川県横浜市青葉区あざみ野南1-2-8

URL <http://www.cellsystem.co.jp>

E-MAIL [sales@cellsystem.co.jp](mailto:sales@cellsystem.co.jp)

TEL 045-914-4500



※本製品は東京工業大学大学院理工学研究科 石谷治先生、玉置悠祐先生ご協力のもと開発致しました。



# ピコ秒パルス、高繰り返し1kHz、波長可変 210～2300 nm

## ピコ秒波長可変レーザー PT403シリーズ

**EKSPLA**

お問い合わせNo: EP66

### 特長

- 短パルス: 15 ~ 20 ps
- 広いチューニングレンジ: 210~2300 nm (192 nm~可能)
- 高繰り返し周波数: 1 kHz
- DPSS、完全空冷
- ターンキー動作
- 低いメンテナンスコスト
- ライン幅: <8 cm<sup>-1</sup>
- 低いビーム拡がり角: <2 mrad



### 用途

- 蛍光寿命分光計測
- 過渡吸収分光計測
- 時間分解分光計測
- ポンプ・プローブ分光計測

その他ナノ秒・フェムト秒波長可変レーザーもございます、お気軽にお問い合わせ下さい。

# ラマン、原子発光分析、ルミネセンス他、微弱光の分光計測に最適

## 分光用高感度冷却CCD/EMCCD検出器 Newton

**OXFORD INSTRUMENTS ANDOR**

お問い合わせNo: AD01

### 特長

- EMCCD チップ搭載 (Newton<sup>EM</sup>) で 1000 倍ゲイン (DU970P、DU971P)
- 量子効率 95% 以上 (BV センサー、@550 nm)
- 近赤外でのフリッジ低減センサーあり (BR-DD、BEX2-DD、BVF)
- 各読み出し速度ごとにプリアンプゲインを設定可能
- -100°C電子冷却 (液体窒素、不要)
- 3 MHz AD コンバーターを搭載
- 16 bit ダイナミックレンジ
- 外部トリガー入力 / 出力



### 用途

- ラマン、蛍光発光、天体等の極微弱光の分光計測
- ポンプ・プローブ 1kHz の同期測定
- 寿命の短い微弱光測定 (EMCCD が有効)

# カーボンナノチューブ等の蛍光・蛍光寿命測定に最適 可視域で高出力、短パルス幅

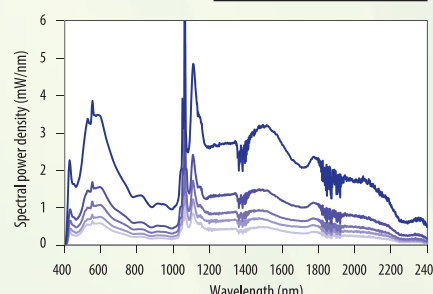
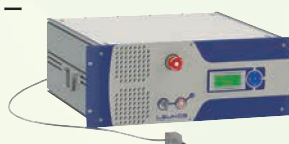
## スーパーコンティニウム光源 (410 nm / 450 nm / 480 nm) ROCKシリーズ

**LEUKOS**  
Make a bright future

お問い合わせNo: LS02

### 特長

- 高繰り返し周波数 オプションで可変可能
- ピコ秒パルス幅
- シングル空間モード
- 可視域出力: 最大 1200 mW
- 全波長域出力: 最大 6W
- メンテナンスフリー



### 用途

- 顕微鏡
- (顕微) 蛍光 (寿命) 分光測定
- 近赤外分光
- 時間相関単一光子計測

**TII 東京インスツルメンツ**  
**TOKYO INSTRUMENTS**

**TII Group Company** - グローバルにネットワークを広げ、最先端の科学をお客様に提供 -

株式会社ユニソク  
日本 / 超高真空・極低温走査型プローブ顕微鏡、  
高速分光測定装置、クライオスタット



LOTIS TII  
ペラルーシ / レーザー、  
レーザーマーキングシステム、光学部品製造



SPECS-TII  
中国、スイス、ロシア、アメリカ /  
Enviro ESCA (準大気圧 XPS)、ARPES など



本社: 〒134-0088 東京都江戸川区西葛西 6-18-14 T.I.ビル ☎03-3686-4711  
大阪営業所: 〒532-0003 大阪市淀川区宮原 4-1-46 新大阪北ビル ☎06-6393-7411  
☎ <https://www.tokyoinst.co.jp> ✉ [sales@tokyoinst.co.jp](mailto:sales@tokyoinst.co.jp)

# GaN単結晶や、ペロブスカイト結晶などの 評価に必要なIQE(内部量子効率)を 簡単、瞬時に測定

ODPL測定装置は、積分球を用いて全方位のフォトルミネッセンスのスペクトルを測定し、試料の発光効率を求める装置です。非破壊、非接触で、パワーデバイス材料として注目されているGaN単結晶や太陽光発電、LEDの高効率化が期待されるペロブスカイト結晶の品質評価に必要なIQEを瞬時に算出できます。

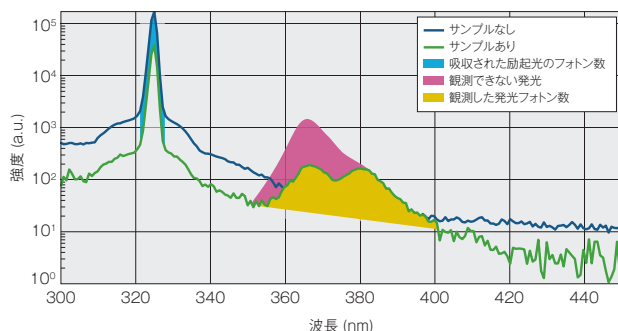
## 「IQE」は、品質評価のパラメータ

半導体結晶には、外部から励起光を受けると発光する性質(フォトルミネッセンス)があります。IQEは、この発光の効率を表すパラメータとなり、その値は転位や欠陥、不純物により敏感に変化します。そのため、半導体材料の品質の指標として利用できると期待されています。

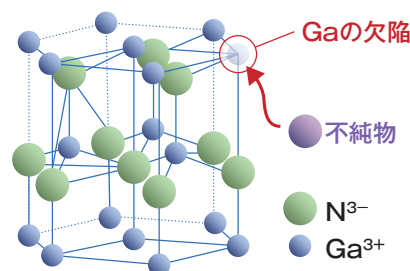
$$IQE = \frac{\text{発光量}}{(\text{発光量} + \text{非発光量})}$$

転位、欠陥、不純物を反映

### ODPL 測定法



### GaNの結晶格子



## 測定・解析項目

- EQEの測定
- IQEの計算
- 吸収率測定
- 発光スペクトル測定



ODPL 測定装置 C15993-01

## 浜松ホトニクス株式会社

www.hamamatsu.com

- 仙台営業所 〒980-0021 仙台市青葉区中央3-2-1(青葉通プラザ 11階)
- 筑波営業所 〒305-0817 つくば市研究学園5-12-10(研究学園スクウェアビル7階)
- 東京営業所 〒105-0001 東京都港区虎ノ門3-8-21(虎ノ門33森ビル5階)
- 中部営業所 〒430-8587 浜松市中区砂山町325-6(日本生命浜松駅前ビル)
- 大阪営業所 〒541-0052 大阪市中央区安土町2-3-13(大阪国際ビル10階)
- 西日本営業所 〒812-0013 福岡市博多区博多駅東1-13-6(いちご博多イーストビル5階)

- TEL (022)267-0121 FAX (022)267-0135
- TEL (029)848-5080 FAX (029)855-1135
- TEL (03)3436-0491 FAX (03)3433-6997
- TEL (053)459-1112 FAX (053)459-1114
- TEL (06)6271-0441 FAX (06)6271-0450
- TEL (092)482-0390 FAX (092)482-0550

「詳細情報は、Webから」

ODPL測定装置

検索

最新カタログをPDFデータで掲載しています。  
ぜひ、アクセス・ダウンロードしてください。

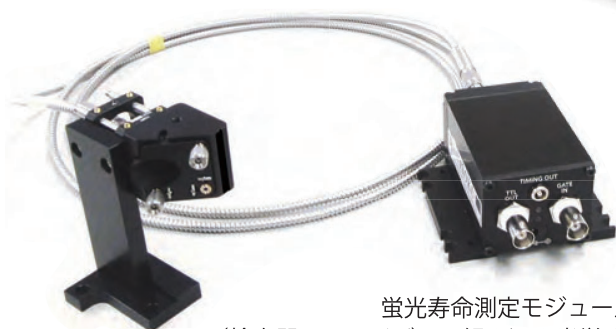


# New picoTAS+TCSPC

世界初 ピコ秒過渡吸収分光・蛍光寿命コンバインシステム



picoTAS+TCSPC  
詳細 URL

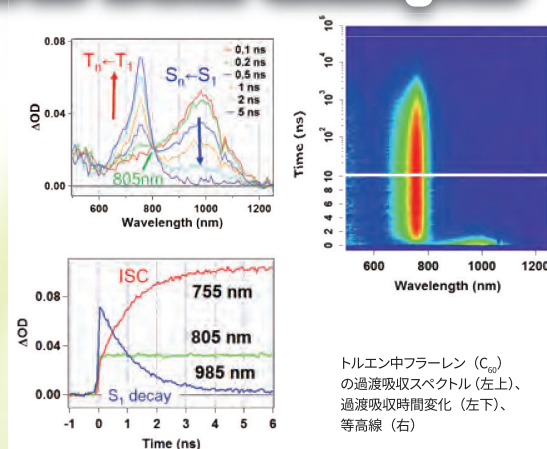


蛍光寿命測定モジュール  
(検出器、ファイバー、組み込み光学系)

## Features

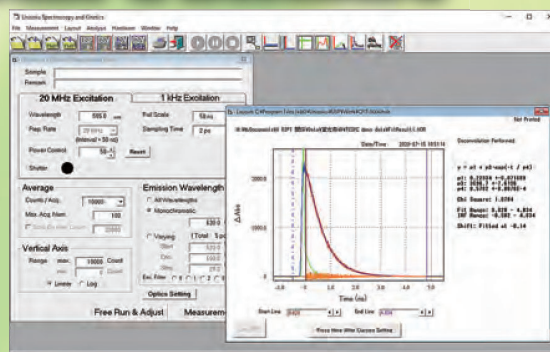
- 自社開発の RIPT 法と TCSPC 法を 1 台に融合
- 100 ps ~ の過渡吸収測定と蛍光寿命測定
- ピコ秒過渡吸収システムに  
蛍光寿命オプション付加可能
- 蛍光寿命システムから  
ピコ秒過渡吸収へのアップグレードも可能
- 過渡吸収 - 蛍光寿命の切り替えはワンタッチ
- 任意の波長で蛍光励起可能
- TAC の制約のないフレキシブルな時間軸設定
- 過渡吸収測定では蛍光を巧妙に除去
- コンパクト設計、光学台不要 (ナノ秒モデル)

## TAS Data Examples



トルエン中フラーレン ( $C_{60}$ )  
の過渡吸収スペクトル (左上)、  
過渡吸収時間変化 (左下)、  
等高線 (右)

## TCSPC Software



株式会社 ユニソク

UNISOKU  
TII Group

E-mail: [info@unisoku.co.jp](mailto:info@unisoku.co.jp) Web site: <http://www.unisoku.co.jp/>

本社・研究所 〒573-0131 大阪府枚方市春日野 2-4-3 TEL 072(858)6456 FAX 072(859)5655

20210728

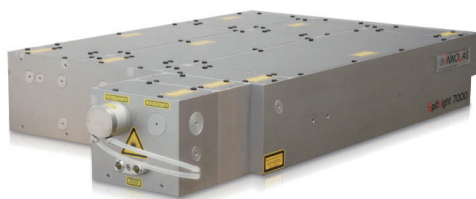




## フェムト秒励起に最適な Nd:YLF グリーンレーザー

### 【基本仕様】

- パルス幅：<300ns
- 周波数：1~10kHz
- 波長：527nm
- エネルギー：20~38mJ
- 非常に安定したビームモード
- Ti:Sapphire 励起に最適化
- PIV 用途に最適な DUO も準備
- 長寿命 LD Module 搭載(>30,000 時間)
- 理科学用途に最適な設計
- フルリモートファンクション搭載
- DI Water 不要設計 LD Module 搭載



## 7J&4J@1064nm のランプ励起パルス YAG レーザー

サテライトライジング・宇宙デブリ検出などに最適な、超高エネルギーモデルが登場

### SpitLight-HE-4000

- エネルギー：4J@1064nm/10Hz

1J@532nm/50Hz

- パルス幅：6~10ns

### SpitLight-HE-7000

- エネルギー：7J@1064nm/10Hz

4J@532nm/10Hz

- パルス幅：6~10ns

- ランプ交換後のアライメント不要
- モノコック超高剛性ヘッド採用
- パッシブクーリング採用で外気温に左右されない超安定稼働
- 小型サイズのレーザーヘッド  
(L x W x H : 665 x 478 x 125 mm)
- 波長：1064nm, 532nm, 355nm, 266nm
- 2 年完全保証(532nm まで)



爆発的に売れています！

完全 2 年保証・高エネルギー・低価格 YVO<sub>4</sub> レーザー！

- 完全な高効率同軸エンドポンプ方式 (Nd:YVO<sub>4</sub>)
- モノコック超高剛性ヘッド・シングルエミッタ LD 励起採用
- 波長：1064nm/532nm
- 出力：40W @40kHz/532nm (YVO<sub>4</sub> で 1mJ 出力)
- 筐体：パッシブクーリング採用ハーメチックシール
- 小型電源 (19" と OEM 電源の選択可能)
- 結晶など光学系含む 2 年完全保証  
2 年間導入後のコストは消耗品以外全く不要！
- ダイヤモンド単結晶・セラミック・PCB 基板加工に最適
- 運転免許証・パスポートなど樹脂マーキングに搭載実績

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〒190-0022 東京都立川市錦町 1-8-14 鈴木ビル 302

TEL: 042-505-6042 FAX: 042-505-6074

光反応評価装置 PQY-01

# Lightway

## 実験プロセスの短縮

化学光量計を用いた従来法比較で大幅な  
時間短縮を実現

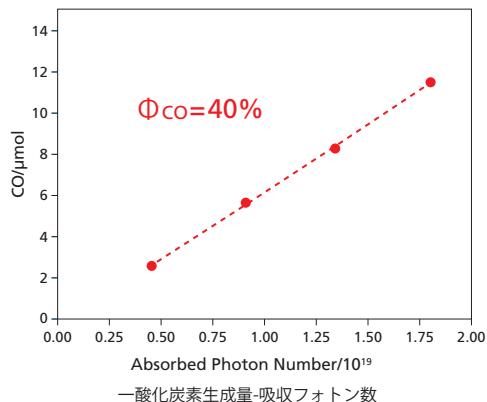
## 正確・簡単なフォトン数の計測

- 化学光量計を使用せず吸収フォトン数を算出
- 調整が不要のため個人差による誤差を解消
- 長時間安定したLED光源を採用

光反応量子収率の測定を  
完全自動化



### Ru-Ru超分子光触媒におけるCO<sub>2</sub>還元反応の光反応量子収率測定



一酸化炭素生成量-吸収フォトン数

還元反応により生成したCOガスはガスクロマトグラフで測定(縦軸)。  
またLightwayで測定された吸収フォトン数を横軸に取り、その傾き  
から光反応量子収率を算出。

光触媒反応によるCO生成量子収率は40%であると決定された。

※生成物が液体の場合には、液体クロマトグラフによる測定が有効です。

ご提供: 国立大学法人東京工業大学 理学院化学系 教授 石谷治先生、助教 玉置悠祐先生

## 関連装置



島津ガスクロマトグラフ Nexis GC-2030



島津液体クロマトグラフ Nexera シリーズ

非常用無停電電源 / 独立電源

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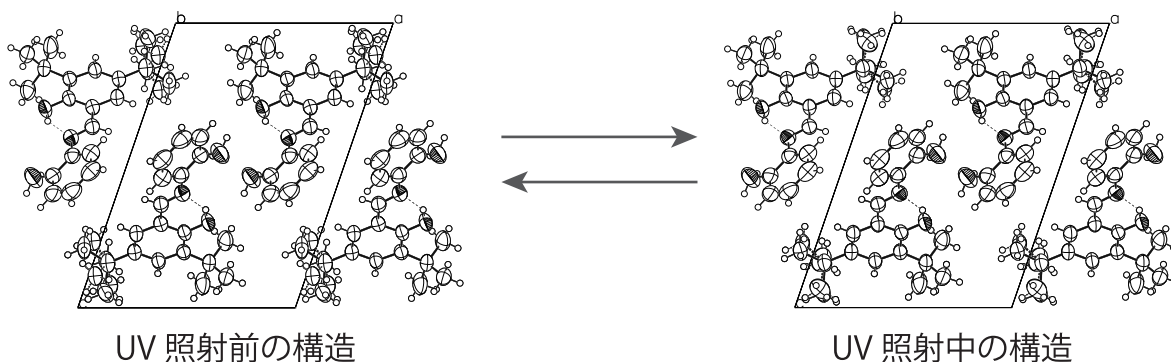
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TEL. 03-3283-4763 E-MAIL [dmfc@mgc.co.jp](mailto:dmfc@mgc.co.jp)



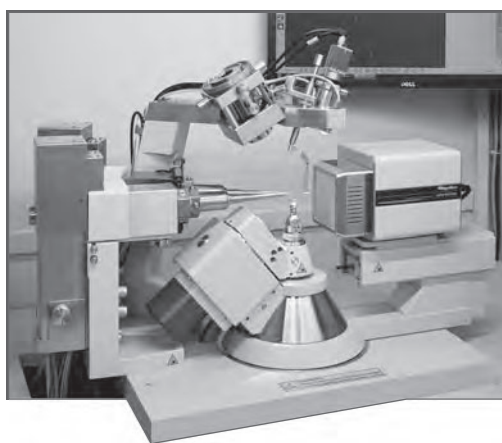
光化学分野の研究も、卓越した性能とユーザーフレンドリーを両立した XtaLAB Synergy シリーズが強力にバックアップします。

## 光熱効果により高速で動く結晶の開発

光熱効果に関わる屈曲する結晶の動的構造変化の解明に、XtaLAB Synergy-S が使用されました。



早稲田大学 小島秀子招聘研究員・朝日透教授らのご研究  
Photothermally Driven High-Speed Crystal Actuation and Its Simulation  
*J. Am. Chem. Soc.* 2021, **143**, 23, 8866–8877



**XtaLAB Synergy** シリーズ



# 量子効率の絶対評価が可能

温度依存性測定や紫外～近赤外の広い波長範囲にも対応

Otsuka  
Otsuka Electronics

## 量子効率測定システム

### QE series

#### QE-2100 (スタンダード仕様)

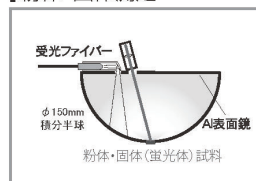
- 瞬時に絶対量子効率が測定可能
- 再励起蛍光補正機能により精度の高い測定が可能
- 積分半球の採用により理想的な光学系を実現
- 液体、粉体、固体(フィルム)、薄膜サンプルに対応可能
- 温調ユニットによる自動温度可変(～300℃)
- ブロードバンド(300～1600nm)仕様に対応

#### QE-5000 (高感度NIR量子効率測定システム)

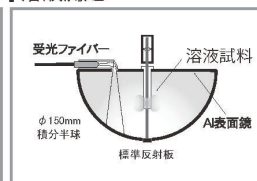
- 一重項酸素の発光スペクトル(1270nm)を測定可能
- 高感度に近赤外領域の測定が可能



#### 粉体・固体測定



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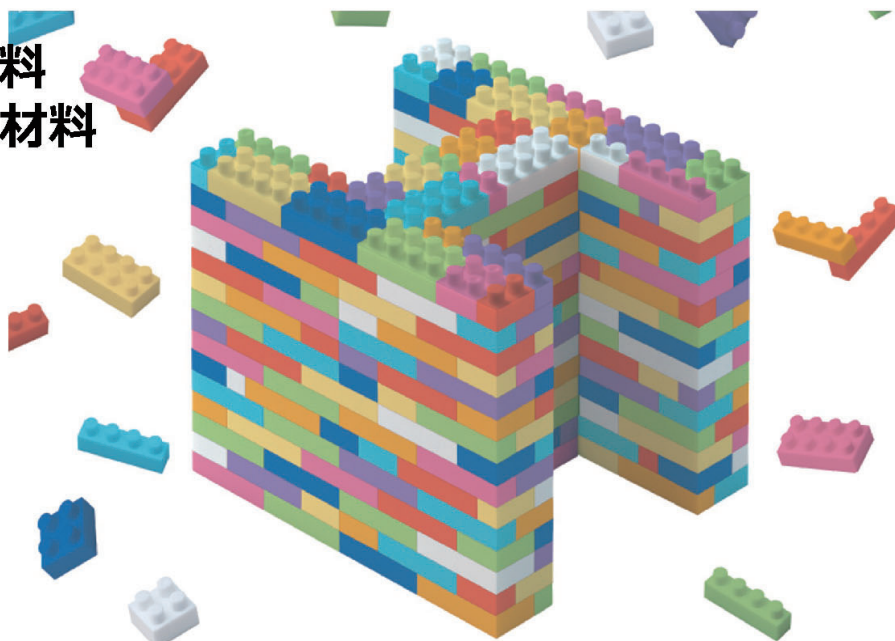
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SmartLab



XtaLAB Synergy

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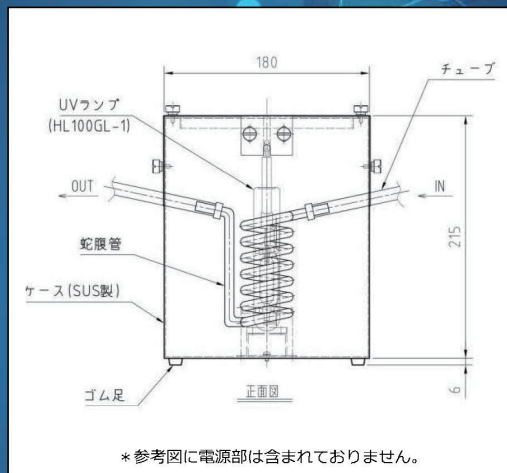
# 光化学反応ユニット

| UV 光源        | 蛇腹タイプ                  | 光漏れ対策                      |
|--------------|------------------------|----------------------------|
| 光源の主波長 365nm | 反応箇所は蛇腹部分<br>少量の光重合が可能 | SUS 板で光源周辺を<br>囲うので光漏れしません |

## 装置仕様

|     |                                     |
|-----|-------------------------------------|
| 反応部 | 蛇腹管 容量 約 10mL                       |
| 光源部 | 高圧 UV ランプ HL100GL-1                 |
| 電源部 | HB100P-1(5/6) AC100V 周波数 50/60Hz 指定 |

- ◆電源の周波数は使用する地域に合わせてお選び下さい。
- ◆従来の冷却機構がないため、熱影響を受ける試料には使用できません。
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## 蛇腹管反応容器(参考図)

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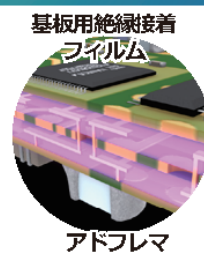
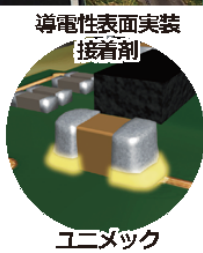
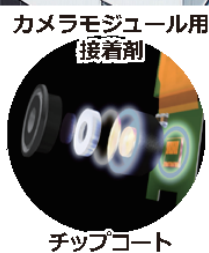
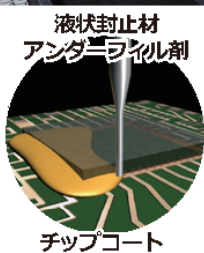


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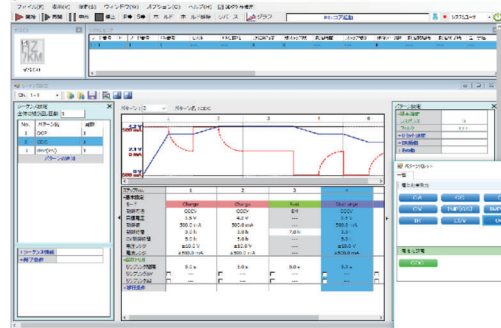
## マルチ電気化学計測システム HZ-Pro



HZ-Pro S4



HZ-Pro S12



### ハードウェア 特長

- モジュール式、最大 12ch まで増設可能
- オプションブースタボード 10V/5A
- ブースタボード挿入枚数に応じて出力電流の増幅が可能
- 作用極、参照極、対極各電極間の電位を同時測定
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### ソフトウェア 特長

マルチチャンネル向けにソフトウェアをリニューアル

- 自由度の高いウィンドウレイアウト
- 操作性の高いユーザーインターフェイス
- 測定法を自由に並べ替え可能
- マルチユーザー向け管理機能搭載
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- 設定イメージをグラフで表示

解析機能順次拡充予定

|                                                              |                                                          |
|--------------------------------------------------------------|----------------------------------------------------------|
| チャンネル: 4ch タイプ(S4), 12ch タイプ(S12)                            | 電位検出精度: 設定値の $\pm 0.03\% \pm 1\text{mV}$                 |
| 最大出力: $\pm 12\text{V} / \pm 500\text{mA}$ (ブースターなしの場合)       | 電流検出精度: 各電流レンジでは以下になります                                  |
| 検出電圧レンジ: $\pm 10\text{V} / \pm 2.5\text{V}$ , AUTO           | 500mA ~ 5 $\mu\text{A}$ : 設定値の $\pm 0.03\%$ ± レンジの 0.08% |
| 検出電流レンジ: $\pm 500\text{mA} \sim \pm 50\text{nA}$ , AUTO      | 500nA: 設定値の $\pm 0.03\%$ ± レンジの 0.1%                     |
| FRA: 10 $\mu\text{Hz} \sim 1\text{MHz}$                      | 50nA: 設定値の $\pm 0.03\%$ ± レンジの 0.16%                     |
| 外形寸法(mm): W256 x H350 x D500 (4ch)、W440 x H350 x D500 (12ch) |                                                          |

詳細は下記にお問い合わせください。

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## Plenary & Award Lectures

|                                                                                                                                                                                                                                                                           |                           |                                |        |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------|--------|-------------------------|
| <b>PL01</b>                                                                                                                                                                                                                                                               | <b>Plenary Lecture I</b>  | September 14 (Tue) 9:00-9:35   | Zoom A | Chair: Tsukasa TORIMOTO |
| <b>JPA Special Lectureship Award 2021</b><br>“New strategies for Photoalignment and Surface Morphing in Photoresponsive Liquid Crystalline Polymer Films”<br>Takahiro SEKI (Nagoya Univ.)                                                                                 |                           |                                |        |                         |
| <b>PL02</b>                                                                                                                                                                                                                                                               | <b>Plenary Lecture II</b> | September 16 (Thur) 9:00-9:35  | Zoom A | Chair: Osamu ISHITANI   |
| <b>JPA Special Lectureship Award 2021</b><br>“Renaissance of Photoredox Catalysis: Organic Synthesis Driven by Visible Light”<br>Munetaka AKITA (Tokyo Inst. Tech.)                                                                                                       |                           |                                |        |                         |
| <b>AL01</b>                                                                                                                                                                                                                                                               | <b>Award Lecture I</b>    | September 14 (Tue) 13:00-13:25 | Zoom A | Chair: Hiroshi IKEDA    |
| <b>JPA Award 2020 Award Lecture</b><br>“Rational Design of Environmentally Sensitive Fluorescence Dyes for Advanced Organic Light-emitting Materials”<br>Genichi KONISHI (Tokyo Inst. Tech.)                                                                              |                           |                                |        |                         |
| <b>AL02</b>                                                                                                                                                                                                                                                               | <b>Award Lecture II</b>   | September 15 (Wed) 9:00-9:35   | Zoom A | Chair: Shinsuke TAKAGI  |
| <b>Honda-Fujishima Lectureship Award 2021</b><br>“Lighting up new reaction pathways – A Journey towards developing new excited state processes in molecules and material”<br>Jayaraman SIVAGURU (Bowling Green State Univ., OHIO, USA)                                    |                           |                                |        |                         |
| <b>AL03</b>                                                                                                                                                                                                                                                               | <b>Award Lecture III</b>  | September 15 (Wed) 9:40-10:15  | Zoom A | Chair: Kazuyuki ISHII   |
| <b>Honda-Fujishima Lectureship Award 2020</b><br>“Photochemical Reaction Mechanisms and Kinetics with Molecular Nanocrystals: Excited States, Strongly Entangled Qubit Pairs, and Photosalient Crystals”<br>Miguel GARCIA-GARIBAY (Univ. of California, Los Angeles, USA) |                           |                                |        |                         |
| <b>AL04</b>                                                                                                                                                                                                                                                               | <b>IV</b>                 | September 15 (Wed) 10:20-10:45 | Zoom A | Chair: Tsukasa TORIMOTO |
| <b>Kataoka Lectureship Award for Asian and Oceanian Photochemist 2021</b><br>“Understanding the Charge Transportation in Photoactive Semiconductors for Solar Fuels Generation”<br>Yun Hau NG (City Univ. of Hong Kong, Hong Kong)                                        |                           |                                |        |                         |

|                                                                                                                                                                                                                                               |                                 |        |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|--------------------------|
| <b>AL05 Award Lecture V</b>                                                                                                                                                                                                                   | September 15 (Wed) 10:50-11:15  | Zoom A | Chair: Hiroshi IKEDA     |
| <b>Lectureship Award for Asian and Oceanian Photochemist Sponsored by Eikosha 2020</b><br>“Ultrafast Excited State Dynamics of Twisted Aromatics”<br>Mahesh HARIHARAN (Indian Inst. of Sci. Education and Research Thiruvananthapuram, India) |                                 |        |                          |
| <b>AL06 Award Lecture VI</b>                                                                                                                                                                                                                  | September 15 (Wed) 16:10-16:45  | Zoom A | Chair: Osamu ISHITANI    |
| <b>Elsevier Lectureship Award 2021</b><br>“Proton-Coupled Electron Transfer in Artificial Photosynthesis”<br>Leif HAMMARSTRÖM (Uppsala Univ., Sweden)                                                                                         |                                 |        |                          |
| <b>AL07 Award Lecture VII</b>                                                                                                                                                                                                                 | September 15 (Wed) 16:50-17:25  | Zoom A | Chair: Shunichi FUKUZUMI |
| <b>Elsevier Lectureship Award 2020</b><br>“Step-Change in Solar Energy Conversion Schemes”<br>Dirk GULDI (Friedrich-Alexander-Univ. Erlangen-Nuernberg, Germany)                                                                              |                                 |        |                          |
| <b>AL08 Award Lecture VIII</b>                                                                                                                                                                                                                | September 16 (Thur) 13:00-13:25 | Zoom A | Chair: Akihiko KUDO      |
| <b>JPA Award 2020 Award Lecture</b><br>“Development of Novel Transient Absorption Spectroscopy and Reaction Dynamics for Highly Efficient Photocatalysis”<br>Akira YAMAKATA (Toyota Tech. Inst.)                                              |                                 |        |                          |
| <b>Award Lecture (1C15)</b>                                                                                                                                                                                                                   | September 14 (Tue) 16:30-16:50  | Zoom C | Chair: Tadashi MORI      |
| <b>Award for Young Scientist 2020 Award Lecture</b><br>“Development of Highly Efficient Photophysical and Photoresponsive Functions Based on Rational Designs of $\pi$ -Conjugated Compounds”<br>Takashi HIROSE (Kyoto Univ.)                 |                                 |        |                          |
| <b>Award Lecture (3C03)</b>                                                                                                                                                                                                                   | September 16 (Thur) 10:20-10:50 | Zoom C | Chair: Kazuki NAKAMURA   |
| <b>Award for Young Scientist 2020 Award Lecture</b><br>“Development of Supramolecular Sensors using Host-Guest Interactions and Their Applications to Optical Array Chips”<br>Tsuyoshi MINAMI (The Univ. of Tokyo)                            |                                 |        |                          |



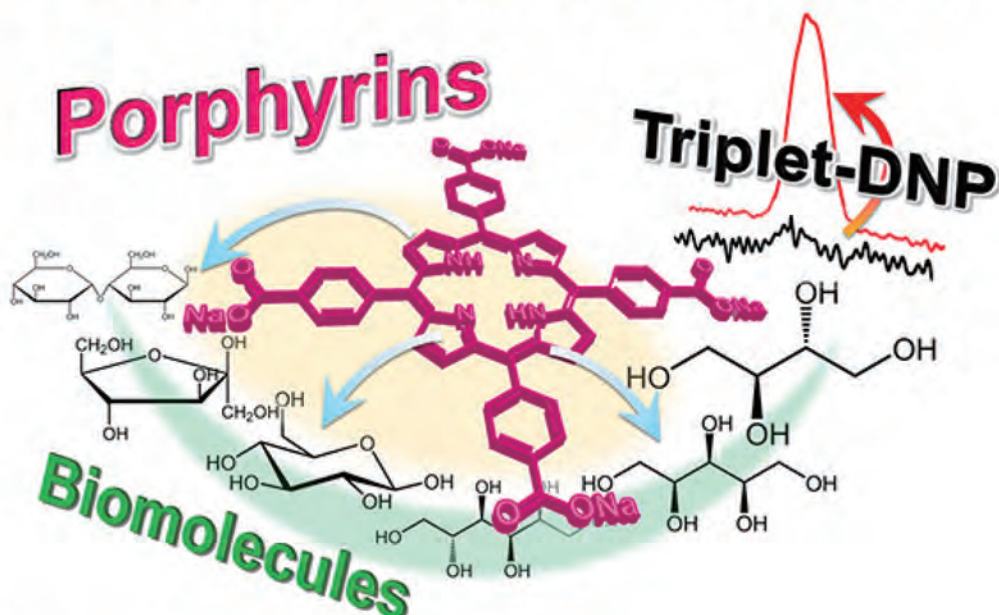
# 若手研究者交流 ランチオンセミナー

2021年 9月 16日 (木)

12:00~12:40 ZoomA 会場

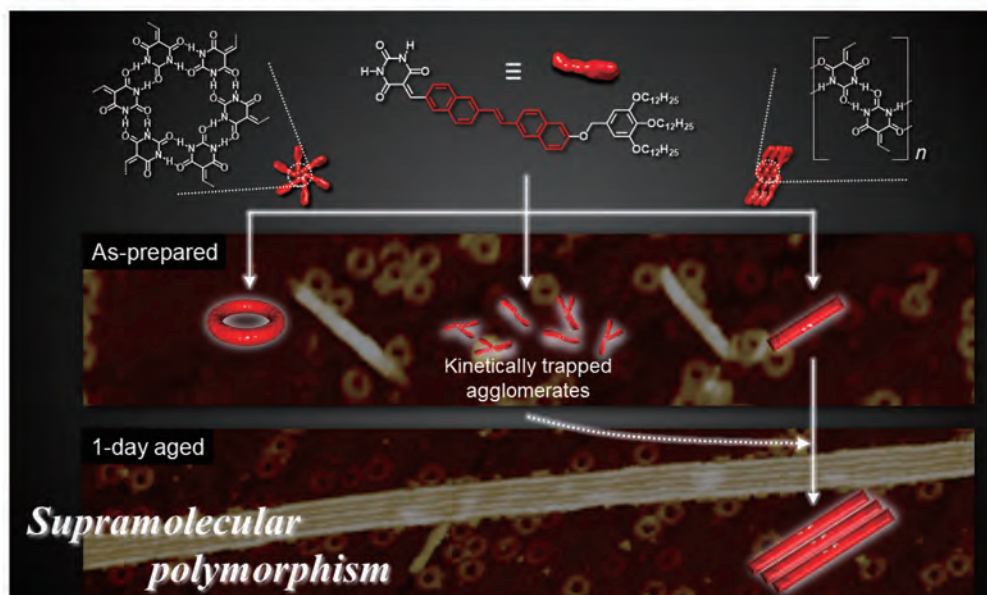
濱地 智之 (九州大学大学院 工学府 君塚研究室 M2)

「ポルフィリンの光励起三重項電子スピンを用いた親水性分子結晶の動的核偏極」



今井 咲希 (千葉大学大学院 融合理工学府 矢貝研究室 M1)

「ジナフチルエテン含有バルビツール酸誘導体が示す超分子多形現象」



# MEMO

# 2021年光化学討論会

会 期        2021年9月14日（火）～16日（木）  
開催形式    オンライン開催  
主 催        光化学協会  
共 催        日本化学会、日本化学会光化学ディビジョン  
討論会ホームページ <https://photochemistry.jp/2021/>

## 【特別講演】

|                               |                                    |
|-------------------------------|------------------------------------|
| Zoom A : 9月 14 日(火) 9:00-9:35 | JPA Special Lectureship Award 2021 |
| Zoom A : 9月 16 日(木) 9:00-9:35 | JPA Special Lectureship Award 2021 |

## 【受賞講演】

|                                 |                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------|
| Zoom A : 9月 14 日(火) 13:00-13:25 | JPA Award 2020 Award Lecture                                                       |
| Zoom A : 9月 15 日(水) 9:00-9:35   | Honda-Fujishima Lectureship Award 2021                                             |
| Zoom A : 9月 15 日(水) 9:40-10:15  | Honda-Fujishima Lectureship Award 2020                                             |
| Zoom A : 9月 15 日(水) 10:20-10:45 | Kataoka Lectureship Award for Asian and Oceanian Photochemist                      |
| Zoom A : 9月 15 日（水） 10:50-11:15 | Lectureship Award for Asian and Oceanian Photochemist<br>Sponsored by Eikosha 2020 |
| Zoom A : 9月 15 日(水) 16:10-16:45 | Elsevier Lectureship Award 2021                                                    |
| Zoom A : 9月 15 日(水) 16:50-17:25 | Elsevier Lectureship Award 2020                                                    |
| Zoom A : 9月 16 日(木) 13:00-13:25 | JPA Award 2020 Award Lecture                                                       |
| Zoom C : 9月 14 日(火) 16:30-16:50 | JPA Award for Young Scientist 2020 Award Lecture                                   |
| Zoom C : 9月 16 日 木) 10:20-10:40 | JPA Award for Young Scientist 2020 Award Lecture                                   |

## 【シンポジウム 動的エキシトン】

Zoom A : 9月14日(火) 9:40-15:50

## 【若手研究者交流ランチョンセミナー】

Zoom A : 9月16日（木） 12:00-12:40

## 【一般口頭発表】 ビデオ会議システム（Zoom）利用

Zoom A : Zoom B : Zoom C : Zoom D

## 【ポスター発表】

オンライン会議システム（Remo）利用

**【光化学協会総会】**

Zoom A : 9月10日（木）14:30-16:00

**【懇親会】**

9月15日（水）17:40-19:40 オンライン会議システム（Remo）利用

**【展示会出展企業】**

9月14-16日 オンライン会議システム（Remo）利用

MSHシステムズ 株式会社、スペクトラ・フィジックス 株式会社、株式会社 セルシステム、  
株式会社 堀場製作所、株式会社 ユニソク、株式会社 日本レーザー

**【広告企業】**

MSHシステムズ 株式会社、株式会社 セルシステム、株式会社 東京インスツルメンツ、  
浜松ホトニクス 株式会社、株式会社 ユニソク、AkiTech LEO 株式会社、  
株式会社 島津製作所、三菱ガス化学 株式会社、株式会社 リガク、大塚電子 株式会社、  
保土谷化学工業 株式会社、株式会社 アヅマテクノス/日本分光 株式会社/株式会社 リガク、  
鐘通化学薬品 株式会社/純正化学 株式会社、セン特殊光源 株式会社、  
株式会社 タケショー、ナミックス 株式会社、北斗電工 株式会社、  
アズサイエンス 株式会社、島津サイエンス東日本 株式会社



| 第1日目 (9月14日 火曜日) |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | Zoom A 会場                                                                                                                                                                                                                        | Zoom B 会場                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8 : 30           | 開場／リハーサル                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                           |
| 座長               | 鳥本 司 (名大)                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9 : 00           | <b>JPA Special Lectureship Award 2021</b><br>[PL01] (9:00～9:35)<br>“New strategies for Photoalignment and Surface Morphing in Photoresponsive Liquid Crystalline Polymer Films”<br>*Takahiro SEKI <sup>1</sup> (1. Nagoya Univ.) |                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9 : 35           | シンポジウム：動的エキシトン                                                                                                                                                                                                                   | 開場／リハーサル (9:20～)                                                                                                                                                                                                                                                                                                                                                                                          |
| 座長               | 家 裕隆 (阪大)                                                                                                                                                                                                                        | 南本 大穂 (北大)                                                                                                                                                                                                                                                                                                                                                                                                |
| 9 : 40           | [1S01] 高性能 TADF 材料の開発と有機 EL デバイス創製<br>*梶 弘典 <sup>1</sup> (1. 京大)                                                                                                                                                                 | [1B01] プラズモニックチップ上での光反応促進による高感度蛍光検出<br>*水谷 幸慈 <sup>1</sup> 、砂山 博文 <sup>2</sup> 、竹内 俊文 <sup>2</sup> 、田和 圭子 <sup>1</sup> (1. 関学大院理工、2. 神戸大院工)                                                                                                                                                                                                                                                               |
| 10 : 00          | [1S02] 二光子吸収・三重項対消滅連結過程における分子設計と光物理<br>*佐伯 昭紀 <sup>1</sup> (1. 阪大院工)                                                                                                                                                             | [1B02] 表面プラズモン共鳴によるタンパク質結晶化を誘起する光に求められる性質<br>*奥津 哲夫 <sup>1</sup> 、佐藤 友彦 <sup>1</sup> 、堀内 宏明 <sup>1</sup> (1. 群馬大院理工)                                                                                                                                                                                                                                                                                      |
| 10 : 20          | [1S03] 分子内にドナー・アクセプター部位を有する白金(II)錯体の合成と発光特性<br>*作田 絵里 <sup>1</sup> (1. 長崎大院)                                                                                                                                                     | [1B03] CoPt-Au ナノ粒子間カップリングを利用したエナリチオ選択的光触媒反応<br>*石田 拓也 <sup>1</sup> 、青木 千佳 <sup>1</sup> 、立間 徹 <sup>1</sup> (1. 東大生研)                                                                                                                                                                                                                                                                                      |
| 10 : 40          | 休憩／リハーサル                                                                                                                                                                                                                         | 休憩／リハーサル                                                                                                                                                                                                                                                                                                                                                                                                  |
| 座長               | 山田 容子 (奈良先端大)                                                                                                                                                                                                                    | 増尾 貞弘 (関学大)                                                                                                                                                                                                                                                                                                                                                                                               |
| 10 : 50          | [1S04] 固体 NMR を用いた有機半導体材料の分子配向解析<br>*鈴木 克明 <sup>1</sup> 、梶 弘典 <sup>1</sup> (1. 京大)                                                                                                                                               | [1B04] 可視光応答性モード結合光カソードを用いた水素発生<br>*押切 友也 <sup>1</sup> 、石 旭 <sup>2</sup> 、三澤 弘明 <sup>1,3</sup> (1. 北大電子研、2. 北大創成研究機構、3. 国立陽明交通大)                                                                                                                                                                                                                                                                          |
| 11 : 10          | [1S05] ドナー・アクセプター連結分子の理論解析<br>*東 雅大 <sup>1,2</sup> (1. 京大院工、2. JST さきがけ)                                                                                                                                                         | [1B05] Development of the effective electron injection system using modal coupling into Ga <sub>2</sub> O <sub>3</sub> conduction band with the large negative potential<br>*Yaguang WANG <sup>1</sup> , Xu SHI <sup>2</sup> , Tomoya OSHIKIRI <sup>1</sup> , Hiroaki MISAWA <sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. Creative Research Inst., Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.) |

| 第 1 日目 (9 月 14 日 火曜日)                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                             |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Zoom C 会場                                                                                                                                                                                                                                       | Zoom D 会場                                                                                                                                                                                                                                                                                                                   |         |
|                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             | 8 : 30  |
| 開場／リハーサル (9:20～)                                                                                                                                                                                                                                | 開場／リハーサル (9:20～)                                                                                                                                                                                                                                                                                                            | 9 : 20  |
| 重光 孟 (阪大)                                                                                                                                                                                                                                       | 玉置 悠祐 (東工大)                                                                                                                                                                                                                                                                                                                 | 座長      |
| [1C01★] Photoinduced Unfolding of Coiled Supramolecular Polymers Followed by Interchain Aggregation<br>*Kenta TAMAKI <sup>1</sup> , Shiki YAGAI <sup>2</sup> (1. Grad. Sch. of Eng. and Sci., Chiba Univ., 2. IGPR, Chiba Univ.)                | [1D01 ★ ] Photocatalytic CO <sub>2</sub> Reduction by Novel Iron Complexes Stabilized by PNNP-type Tetradentate Ligands<br>*Taku WAKABAYASHI <sup>1</sup> , Kenji KAMADA <sup>1</sup> , Jieun JUNG <sup>1</sup> , Susumu SAITO <sup>1,2</sup> (1. Grad. Sch. Sci., Nagoya Univ., 2. RCMS, Nagoya Univ.)                     | 9 : 40  |
| [1C02] 強発光特性と高円偏光ルミネッセンス特性を併せもつキラル共集積システム<br>*龍 直哉 <sup>1</sup> 、永岡 昭二 <sup>1</sup> 、高藤 誠 <sup>2</sup> 、伊原 博隆 <sup>2</sup> (1. 熊本県産技セ、2. 熊本大院先端)                                                                                                | [1D02] Modificaiton of a PNNP-type Ir complex to possess long-lived excited states for efficient photocatalytic CO <sub>2</sub> reduction<br>*Jieun JUNG <sup>1</sup> , Seonghee BAE <sup>1</sup> , Sujit P. CHAVAN <sup>2</sup> , Susumu SAITO <sup>1,2</sup> (1. Grad. Sch. of Sci., Nagoya Univ., 2. RCMS, Nagoya Univ.) | 10 : 00 |
| [1C03] ペリレンビスイミドの自己集合に基づくペロブスカイトナノ結晶の高次配列制御<br>*久保 直輝 <sup>1</sup> 、山内 光陽 <sup>1</sup> 、増尾 貞弘 <sup>1</sup> (1. 関学大院理工)                                                                                                                          | [1D03] 光誘起電子移動に共役したフェロセン電子伝達体の相間移動により駆動する二相溶液系光触媒反応<br>*中田 明伸 <sup>1,2</sup> 、板垣 廉 <sup>1</sup> 、滝沢 進也 <sup>3</sup> 、張 浩徹 <sup>1</sup> (1. 中大理工、2. JST さきがけ、3. 東大院総合)                                                                                                                                                       | 10 : 20 |
| 休憩／リハーサル                                                                                                                                                                                                                                        | 休憩／リハーサル                                                                                                                                                                                                                                                                                                                    | 10 : 40 |
| 矢貝 史樹 (千葉大)                                                                                                                                                                                                                                     | 竹田 浩之 (群馬大)                                                                                                                                                                                                                                                                                                                 | 座長      |
| [1C04] 水中におけるシアニン色素の凝集誘起光触媒活性と酸化反応への応用<br>*重光 孟 <sup>1</sup> 、為本 智恵 <sup>1</sup> 、木田 敏之 <sup>1</sup> (1. 阪大院工)                                                                                                                                  | [1D04★] Highly efficiency of hydrogen sulfide decomposition with TiO <sub>2</sub> (B) composite photocatalyst and the effect of sulfur species for photocatalytic activity<br>*Yukino UESUGI <sup>1</sup> , Morio NAGATA <sup>1</sup> (1. Fac. of Eng., Tokyo Univ. of Sci.)                                                | 10 : 50 |
| [1C05] シリカナノリボンを反応場とする 2-アントラセンカルボン酸の超分子光二量化反応<br>Wijak YOSPANYA <sup>1,3</sup> 、西嶋 政樹 <sup>1</sup> 、荒木 保幸 <sup>1</sup> 、森 直 <sup>2</sup> 、Pouget EMILIE <sup>3</sup> 、Reiko ODA <sup>3</sup> 、*和田 健彦 <sup>1</sup> (1. 東北大多元研、2. 阪大院工、3. ボルドー大) | [1D05★] Current density estimation of photo electrode by utilizing feature values derived from various types of analytical data<br>*Yuya NAGAI <sup>1</sup> , Kenji KATAYAMA <sup>1</sup> (1. Chuo Univ.)                                                                                                                   | 11 : 10 |

|         |                                                                                                                                                                                                                                        |                                                                                                                                                                                                    |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11 : 30 | [1S06] 結晶性薄膜の一重項励起子分裂：活性化多重励起子の構造と解離に対する動的効果<br>松田 紗季 <sup>1</sup> 、*小堀 康博 <sup>2,1</sup> (1. 神戸大院理、2. 神戸分子フォト)                                                                                                                        | [1B06] 角度分解光学計測による分子励起子-2次元格子プラズモン強結合系のポラリトン特性調査<br>*林 峻大 <sup>1</sup> 、及川 隼平、南本 大穂 <sup>2</sup> 、村越 敬 <sup>2</sup> (1. 北大院総化、2. 北大院理)                                                             |
| 11 : 50 | (昼休み)                                                                                                                                                                                                                                  | 企業展示紹介<br>スペクトラ・フィジックス (株)                                                                                                                                                                         |
| 12 : 10 |                                                                                                                                                                                                                                        | 企業展示紹介<br>(株) ユニソク                                                                                                                                                                                 |
| 12 : 30 |                                                                                                                                                                                                                                        | (昼休み)                                                                                                                                                                                              |
|         | 開場／リハーサル (12:40～)                                                                                                                                                                                                                      |                                                                                                                                                                                                    |
| 座長      | 池田 浩 (阪府大)                                                                                                                                                                                                                             |                                                                                                                                                                                                    |
| 13 : 00 | <b>JPA Award 2020 Award Lecture</b><br>[AL01] (13:00～13:25)<br>“Rational Design of Environmentally Sensitive Fluorescence Dyes for Advanced Organic Light-emitting Materials”<br>*Gen-ichi KONISHI <sup>1</sup> (1. Tokyo Inst. Tech.) | 開場／リハーサル (13:20～)                                                                                                                                                                                  |
| 座長      | 小堀 康博 (神戸大)                                                                                                                                                                                                                            |                                                                                                                                                                                                    |
| 13 : 40 | [1S07] 非フラーレン型アクセプターへの応用に向けた新規 $\pi$ 共役分子の開発<br>*家 裕隆 <sup>1</sup> (1. 阪大)                                                                                                                                                             | [1B07] 過渡吸収・光電流同時測定による有機薄膜太陽電池におけるキャリア輸送過程の研究<br>*村松 直哉 <sup>1</sup> 、三浦 智明 <sup>1</sup> 、生駒 忠昭 <sup>1</sup> (1. 新潟大院自然)                                                                           |
| 14 : 00 | [1S08] 石油資源アルケンを用いたアルデヒドの触媒的アリル化<br>*三ツ沼 治信 <sup>1</sup> 、田辺 駿 <sup>1</sup> 、金井 求 <sup>1</sup> (1. 東大)                                                                                                                                 | [1B08] PM6/Y6 ブレンド有機薄膜太陽電池におけるオフセットレス電荷分離メカニズムの解明<br>*玉井 康成 <sup>1,2</sup> 、夏田 慎一郎 <sup>1</sup> 、齋藤 俊晴 <sup>1</sup> 、城内 嶺 <sup>1</sup> 、坂本 雄治 <sup>1</sup> 、大北 英生 <sup>1</sup> (1. 京大、2. JST さきがけ) |
| 14 : 20 | [1S09] 前駆体法を利用した低分子有機半導体の開発<br>*山田 容子 <sup>1</sup> (1. 奈良先端大先端)                                                                                                                                                                        | [1B09] ナノ構造電極における水素発生過程の電気化学分光観測<br>*南本 大穂 <sup>1</sup> 、小山田 伸明 <sup>1</sup> 、村越 敬 <sup>1</sup> (1. 北大)                                                                                            |
| 14 : 40 | [1S10] ドナーアクセプター連結分子による細胞膜電位の光制御<br>*村上 達也 <sup>1,2</sup> (1. 富山県立大、2. 京大)                                                                                                                                                             | [1B10] 界面活性剤水溶液に懸濁させたバナジルフタロシアン結晶のレーザーアブレーションにより生成するコロイド粒子の結晶構造<br>新垣 友崇 <sup>1</sup> 、嘉手川 裕樹 <sup>1</sup> 、*玉城 喜章 <sup>1</sup> (1. 琉球大)                                                           |
| 15 : 00 | 休憩／リハーサル                                                                                                                                                                                                                               |                                                                                                                                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| [1C06] 安定有機ラジカルの室温固体発光<br>*松岡 亮太 <sup>1</sup> 、木村 尚次郎 <sup>2</sup> 、草本 哲郎 <sup>1</sup> (1. 分子研生命<br>錯体、2. 東北大金研)                                                                                                                                                                                                                                                                                                           | [1D06★] Effect of Defect Sites on Photocatalysis of Reduced<br>Titanium Dioxide Prepared Using Hydrogen Spillover<br>*Yukari YAMAZAKI <sup>1</sup> , Kohsuke MORI <sup>1,2</sup> , Yasutaka<br>KUWAHARA <sup>1,2,3</sup> , Hiromi YAMASHITA <sup>1,2</sup> (1. Grad. Eng.,<br>Osaka Univ., 2. ESICB, Kyoto Univ., 3. JST-PRESTO)                                                                                                                                                           | 11 : 30 |
| 企業展示紹介<br>(株) 日本レーザー                                                                                                                                                                                                                                                                                                                                                                                                       | 企業展示紹介<br>(株) 堀場製作所                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11 : 50 |
| (昼休み)                                                                                                                                                                                                                                                                                                                                                                                                                      | (昼休み)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12 : 10 |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12 : 30 |
| 開場／リハーサル (13:20～)                                                                                                                                                                                                                                                                                                                                                                                                          | 開場／リハーサル (13:20～)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 13 : 20 |
| 岡本 秀毅 (岡山大)                                                                                                                                                                                                                                                                                                                                                                                                                | 伊藤 冬樹 (信州大)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| [1C07] 生体内分子光増感一重項酸素生成抑制機構<br>*菊地 あづさ <sup>1</sup> 、松原 航那 <sup>1</sup> 、林 拓実 <sup>1</sup> 、奎師 啓斗 <sup>1</sup> 、八<br>木 幹雄 <sup>1</sup> (1. 横国大)                                                                                                                                                                                                                                                                             | [1D07] Charge Carrier Mapping for Z-scheme Photocatalytic<br>Water-Splitting Sheet via Categorization of Microscopic Time-<br>resolved Image Sequences<br>Mikoto EBIHARA <sup>1</sup> , Takeshi IKEDA <sup>2,3</sup> , Sayuri OKUNAKA <sup>2,3</sup> ,<br>Hiromasa TOKUDOME <sup>2,3</sup> , Kazunari DOMEN <sup>4,5</sup> ,* Kenji<br>KATAYAMA <sup>1</sup> (1. Chuo Univ., 2. TOTO, 3. ARPChem, 4.<br>Shinshu Univ., 5. The Univ. of Tokyo)                                              | 13 : 40 |
| [1C08★] Development of efficient light harvesting antenna by<br>densely organizing fluorophores into DNA junction<br>* Hidenori AZUMA <sup>1</sup> , Hiromu KASHIDA <sup>1</sup> , Yasuyuki ARAKI <sup>2</sup> ,<br>Takehiko WADA <sup>2</sup> , Hiroyuki ASANUMA (1. Grad. Sch. of<br>Eng., Nagoya Univ., 2. IMRAM, Tohoku Univ.)                                                                                         | [1D08] 半導体光電極と生体触媒を組み合わせた二酸化<br>炭素還元系の開発<br>*東 正信 <sup>1</sup> 、豊留 拓弥 <sup>1</sup> 、天尾 豊 <sup>1</sup> (1. 阪市大)                                                                                                                                                                                                                                                                                                                                                                             | 14 : 00 |
| [1C09] Using Triplet-Triplet Energy Transfer Kinetics to<br>Access the Dynamics of Biomolecules at the Single-Molecule<br>Level<br>*Jie XU <sup>1</sup> , Shuya FAN <sup>1</sup> , Lei XU <sup>1</sup> , Atsushi MARUYAMA <sup>2</sup> ,<br>Mamoru FUJITSUKA <sup>1</sup> , Kiyohiko KAWAI <sup>1</sup> (1. SANKEN,<br>Inst. of Scientific and Industrial Research, 2. Dept. of Life Sci.<br>and Tech., Tokyo Inst. Tech.) | [1D09★] Activity sensing of cancer cells using luminescent<br>Eu complexes in culture solution<br>*Masaya KONO <sup>1</sup> , Yuichi KITAGAWA <sup>2,4</sup> , Masumi TSUDA <sup>3,4</sup> ,<br>Sunao SHOJI <sup>2,4</sup> , Koji FUSHIMI <sup>2</sup> , Shinya TANAKA <sup>3,4</sup> ,<br>Yasuchika HASEGAWA <sup>2,4</sup> (1. Grad. Sch. of Chem. Sci. and<br>Eng., Hokkaido Univ., 2. Fac. of Eng., Hokkaido Univ., 3. Fac.<br>of Med., Hokkaido Univ., 4. WPI-ICReDD, Hokkaido Univ.) | 14 : 20 |
| [1C10] 含硫糖を用いた光線力学用シリルポルフィリンの<br>高効率化<br>*堀内 宏明 <sup>1</sup> 、西川 昂汰 <sup>1</sup> 、大重 真彦 <sup>1</sup> 、松尾 一郎 <sup>1</sup> 、菅<br>原 二三男 <sup>2</sup> 、坂口 謙吾 <sup>2</sup> 、桂 進司 <sup>1</sup> 、吉原 利忠 <sup>1</sup> 、飛田<br>成史 <sup>1</sup> 、奥津 哲夫 <sup>1</sup> (1. 群馬大院理工、2. 東理大理工)                                                                                                                                               | [1D10★] Wavelength-tunable Photoluminescence of Ag(In,<br>Ga)(S, Se) <sub>2</sub> Quantum Dots for Near-IR Bioimaging<br>*Nurmanita RISMANINGSIH <sup>1</sup> , Hiroki YAMAUCHI <sup>1</sup> ,<br>Tatsuya KAMEYAMA <sup>1</sup> , Hiroshi YUKAWA <sup>1</sup> , Taro<br>UEMATSU <sup>2</sup> , Yoshinobu BABA <sup>1</sup> , Susumu KUWABATA <sup>2</sup><br>Tsukasa TORIMOTO <sup>1</sup> (1. Grad. Sch. of Eng., Nagoya Univ.,<br>2. Grad. Sch. of Eng., Osaka Univ.)                    | 14 : 40 |
| 休憩／リハーサル                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15 : 00 |



| 座長      | 佐伯 昭紀 (阪大)                                                                               | 大曲 駿 (東工大)                                                                                                                                                                                                                                                                                               |
|---------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 : 10 | [1S11] 広帯域時間分解分光による無機・有機材料の光励起ダイナミクス<br>*山方 啓 <sup>1</sup> 、加藤 康作 <sup>1</sup> (1. 豊田工大) | [1B11] PNIPA ゲルの体積相転移を利用した 芳香族系分子の蛍光波長のスイッチング<br>*浜崎 亜富 <sup>1</sup> 、久保 圭 <sup>1</sup> 、原島 幹 <sup>1</sup> 、勝木 明夫 <sup>2</sup> 、尾関 寿美男 <sup>1</sup> (1. 信州大理、2. 信州大全学教育)                                                                                                                                 |
| 15 : 30 | [1S12] 架橋構造を利用した動的エキシトン相互作用の学理構築<br>*今堀 博 <sup>1</sup> (1. 京大)                           | [1B12] ZnSe/InP/ZnSe 球状量子井戸の合成と励起子ダイナミクス<br>*江口 大地 <sup>1</sup> 、玉井 尚登 <sup>1</sup> (1. 関学大院理)                                                                                                                                                                                                           |
| 15 : 50 |                                                                                          | [1B13 ★] Key factor facilitating triplet-singlet resonance energy transfer for efficient red afterglow emission<br>*Kikuya HAYASHI <sup>1</sup> , Kei FUKASAWA <sup>2</sup> , Takashi YAMASHITA <sup>2</sup> , Shuzo HIRATA <sup>1</sup> (1. The Univ. of Electro-Commun., 2. Tokyo Univ. of Tech.)      |
| 16 : 10 |                                                                                          | [1B14] 有機材料を用いた輝尽発光システムの開発<br>櫻井 学 <sup>1</sup> 、嘉部 量太 <sup>2,3</sup> 、婦木 正明 <sup>4</sup> 、Zesen LIN <sup>2,3</sup> 、陣内 和哉 <sup>3,5</sup> 、小堀 康博 <sup>1,4</sup> 、安達 千波矢 <sup>3,5,6</sup> 、*立川 貴士 <sup>1,4</sup> (1. 神戸大院理、2. 沖縄科学技術大院大、3. JST ERATO、4. 神戸大分子フォト、5. 九大最先端有機光エレクトロニクス研究セ、6. 九大 WPI-I2CNER) |
| 16 : 30 |                                                                                          | [1B15] A Microspectroscopic Evaluation of Shape-Dependent Halide Vacancy Filling Kinetics in Lead Halide Perovskites<br>*Takuya OKAMOTO <sup>1</sup> , Muhammad SHAHJAHAN <sup>2</sup> , Vasudevanpillai BIJU <sup>1,2</sup> (1. RIES, Hokkaido Univ. 2. Grad. Sch. of Envi. Sci., Hokkaido Univ.)       |
| 17 : 00 | ポスター発表 (Remo 会場)<br>17 : 00~18 : 40                                                      |                                                                                                                                                                                                                                                                                                          |

| 森 直 (阪大)                                                                                                                                                                                                                                                     | 伊藤 亮孝 (高知工科大)                                                                                                                                                                                                                          | 座長      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| [IC11] NHC 金(I)錯体からなる結晶性分子ローターの光照射による回転運動の変化とフォトクロミズム<br>*陳 旻究 <sup>1</sup> 、松浦 さつき、小澤 友 <sup>2</sup> 、佐藤 文菜 <sup>3</sup> 、伊藤 肇 <sup>1</sup> (1. 北大 WPI-ICReDD、2. 北大総合化学院、3. 自治医科大医)                                                                         | [1D11★] Switching of photoluminescence property in silver clusters<br>*Wataru ISHII <sup>1</sup> , Tsuyoshi KAWAI <sup>1</sup> , Takuya NAKASHIMA <sup>1</sup> (1.NAIST)                                                               | 15 : 10 |
| [IC12] 可視光応答性酸化チタンを用いたトリクロロメチル化合物のアシルアジドへのワンポット変換<br>*七條 慶太 <sup>1</sup> 、久枝 良雄 <sup>1</sup> 、瀧越 恒 <sup>1</sup> (1. 九大院工)                                                                                                                                    | [1D12] 高分子ブレンド薄膜における相分離構造のハイパースペクトル蛍光イメージング<br>*伊藤 冬樹 <sup>1</sup> 、畑野 義弥 <sup>1</sup> 、勝見 志穂 <sup>1</sup> (1. 信州大教育)                                                                                                                  | 15 : 30 |
| [IC13] 平板四角形型の両親媒性ジアリールエテンが形成する温度依存型の速度論的会合体<br>*東口 顕士 <sup>1</sup> 、小谷 泰暢 <sup>1</sup> 、安田 春香 <sup>1</sup> 、松田 建児 <sup>1</sup> (1. 京大院工)                                                                                                                    | [1D13] 「分子アンカー」アプローチによる TTA 光アップコンバージョン固体材料<br>福内 理紗 <sup>1,2</sup> 、トリパティ ニーティ <sup>1</sup> 、ヘック クライレ <sup>1</sup> 、豊島 勇斗 <sup>3</sup> 、吉波 拓巳 <sup>3</sup> 、小林 健二 <sup>3</sup> 、*鎌田 賢司 <sup>1,2</sup> (1. 産総研ナノ材料、2. 関学大院理工、3. 静岡大院理) | 15 : 50 |
| [IC14] アゾベンゼンの光異性化制御に基づく新規発光材料の構築<br>*山内 光陽 <sup>1</sup> 、岡治 美穂 <sup>1</sup> 、増尾 貞弘 <sup>1</sup> (1. 関学大生命環境)                                                                                                                                                | [1D14] 時間分解発光分光法を用いたコアシェル型希土類ナノ粒子のアップコンバージョン機構解明<br>*杉岡 寛爾 <sup>1</sup> 、宮崎 栞 <sup>1</sup> 、宮田 潔志 <sup>1</sup> 、石井 あゆみ <sup>2</sup> 、恩田 健 <sup>1</sup> (1. 九大院理、2. 帝京科学大生命環境)                                                          | 16 : 10 |
| <b>JPA Award for Young Scientist 2020 Award Lecture</b><br>[IC15]<br>“Development of Highly Efficient Photophysical and Photoresponsive Functions Based on Rational Designs of $\pi$ -Conjugated Compounds”<br>*Takashi HIROSE <sup>1</sup> (1. Kyoto Univ.) | [1D15] 液相合成した金ナノ粒子と金-パラジウムナノ粒子のプラズモン特性<br>*横田 幸恵 <sup>1</sup> 、藤田 明日香 <sup>1</sup> 、山本 真由 <sup>1</sup> 、児玉 涼介 <sup>2</sup> 、海野 竜馬 <sup>2</sup> 、松尾 秀明 <sup>2</sup> 、渡辺 量朗 <sup>2</sup> (1. 上智大理工、2. 東理大理)                              | 16 : 30 |
| ポスター発表 ( <b>Remo 会場</b> )<br>17 : 00~18 : 40                                                                                                                                                                                                                 |                                                                                                                                                                                                                                        | 17 : 00 |

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| 第 2 日 目 ( 9 月 15 日 水曜日 ) |                                                                                                                                                                                                                                                                                                                                                 |
|                          | Zoom A 会場                                                                                                                                                                                                                                                                                                                                       |
| 8 : 30                   | 開場／リハーサル                                                                                                                                                                                                                                                                                                                                        |
| 9 : 00                   | <p><b>Honda-Fujishima Lectureship Award 2021</b><br/>[AL02] (9:00～9:35)</p> <p>“Lighting up new reaction pathways – A Journey towards developing new excited state processes in molecules and materials”<br/>*Jayaraman SIVAGURU<sup>1</sup> (1. Bowling Green State Univ., OHIO, USA)<br/>座長：高木 慎介 (都立大)</p>                                   |
| 9 : 40                   | <p><b>Honda-Fujishima Lectureship Award 2020</b><br/>[AL03] (9:40～10:15)</p> <p>“Photochemical Reaction Mechanisms and Kinetics with Molecular Nanocrystals: Excited States, Strongly Entangled Qubit Pairs, and Photosalient Crystals”<br/>*Miguel GARCIA-GARIBAY<sup>1</sup> (1. Univ. of California, Los Angeles, USA)<br/>座長：石井 和之 (東大)</p> |
| 10 : 20                  | <p><b>Kataoka Lectureship Award for Asian and Oceanian Photochemist 2021</b><br/>[AL04] (10:20～10:45)</p> <p>“Understanding the Charge Transportation in Photoactive Semiconductors for Solar Fuels Generation”<br/>*Yun Hau NG<sup>1</sup> (1. City Univ. of Hong Kong, Hong Kong)<br/>座長：鳥本 司 (名大)</p>                                        |
| 10 : 50                  | <p><b>Lectureship Award for Asian and Oceanian Photochemist Sponsored by Eikosha 2020</b><br/>[AL05] (10:50～11:15)</p> <p>“Ultrafast Excited State Dynamics of Twisted Aromatics”<br/>*Mahesh HARIHARAN<sup>1</sup> (1. Indian Inst. of Science Education and Research Thiruvananthapuram, India)<br/>座長：池田 浩 (阪府大)</p>                         |
| 11 : 30                  | 昼休み                                                                                                                                                                                                                                                                                                                                             |
| 12 : 40                  | <p>ポスター発表 (Remo 会場)<br/>12:40-14:20</p>                                                                                                                                                                                                                                                                                                         |
| 14 : 20                  | 休憩／リハーサル                                                                                                                                                                                                                                                                                                                                        |
| 14 : 30                  | 光化学協会総会                                                                                                                                                                                                                                                                                                                                         |
| 16 : 00                  | 休憩／リハーサル                                                                                                                                                                                                                                                                                                                                        |
| 16 : 10                  | <p><b>Elsevier Lectureship Award 2021</b><br/>[AL06] (16:10～16:45)</p> <p>“Proton-Coupled Electron Transfer in Artificial Photosynthesis”<br/>* Leif HAMMARSTRÖM<sup>1</sup> (1. Uppsala Univ., Sweden)<br/>座長：石谷 治 (東工大)</p>                                                                                                                   |
| 16 : 50                  | <p><b>Elsevier Lectureship Award 2020</b><br/>[AL07] (16:50～17:25)</p> <p>“Step-Change in Solar Energy Conversion Schemes”<br/>*Dirk GULDI<sup>1</sup> (1. Friedrich-Alexander-Univ. Erlangen-Nuernberg, Germany)<br/>座長：福住 俊一 (名城大)</p>                                                                                                        |

(第 2 日目の Zoom B~D 会場講演はありません。)



| 第3日目 (9月16日 木曜日) |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                  | Zoom A 会場                                                                                                                                                                                                                                                                                                                                                | Zoom B                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8 : 30           | 開場／リハーサル                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                        |
| 座長               | 石谷 治 (東工大)                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                        |
| 9 : 00           | <b>JPA Special Lectureship Award 2021</b><br>[PL02] (9:00～9:35)<br>“Renaissance of Photoredox Catalysis: Organic Synthesis Driven by Visible Light”<br>*Munetaka AKITA <sup>1</sup> (1. Tokyo Inst. Tech.)                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                        |
| 9 : 35           |                                                                                                                                                                                                                                                                                                                                                          | 開場／リハーサル (9:20～)                                                                                                                                                                                                                                                                                                                                                                                       |
| 座長               | 滝沢 進也 (東大)                                                                                                                                                                                                                                                                                                                                               | 菊地 あづさ (横国大)                                                                                                                                                                                                                                                                                                                                                                                           |
| 9 : 40           | [3A01 ★] Performance Evaluation of Flow Photoreactors Using Intramolecular Photocycloaddition of Naphthalene Derivative<br>*Taichi INOUE <sup>1</sup> , Takuya OGAKI <sup>1,2</sup> , Yasunori MATSUI <sup>1,2</sup> , Eisuke OHTA <sup>1,2</sup> , Hiroshi IKEDA <sup>1,2</sup> (1. Grad. Sch. of Eng., Osaka Pref. Univ., 2. RIMED, Osaka Pref. Univ.) | [3B01] オリゴアルギニンペプチドに結合したりん光性 Ir(III)錯体とりん光寿命イメージング顕微鏡を用いた <i>in vivo</i> 血管イメージング<br>*吉原 利忠 <sup>1</sup> 、安カ川 真美 <sup>1</sup> 、鷲見 さくら <sup>1</sup> 、塩崎 秀一 <sup>1</sup> 、飛田 成史 <sup>1</sup> (1. 群馬大院理工)                                                                                                                                                                                                 |
| 10 : 00          | [3A02] 光脱炭酸および山口マクロラクトン化反応による不飽和大環状ラクTONの合成<br>*亀田 健太 <sup>1</sup> 、吉見 泰治 <sup>1</sup> (1. 福井大院工)                                                                                                                                                                                                                                                        | [3B02★] An aggregation induced emission based tetracationic fluorophore for efficient and improved Heparin sensing.<br>*Shrishti P. PANDEY <sup>2</sup> , Pamela JHA <sup>1</sup> , Prabhat K. SINGH <sup>2,3</sup> (1. Amity Univ. Mumbai, India, 2. Radiation & Photochemistry Division, Bhabha Atomic Research Centre, Mumbai, India, 3. Homi Bhabha National Inst., Anushaktinagar, Mumbai, India) |
| 10 : 20          | [3A03] キラルなオキサザボロリジン触媒による1,4-ナフトキノン-アルケン連結系のエナンチオ選択的[2+2]光環化付加反応<br>*清水 菜生 <sup>1</sup> 、森 直 <sup>1</sup> (1. 阪大)                                                                                                                                                                                                                                        | [3B03] Face-to-Face 型 P(V)ポルフィリン三量体の光励起状態における緩和過程と細胞毒性<br>*平川 和貴 <sup>1,2</sup> 、岸本 直起 <sup>1</sup> 、西村 賢宣 <sup>3</sup> 、伊吹 裕子 <sup>4</sup> 、婦木 正明 <sup>5</sup> 、小堀 康博 <sup>5,6</sup> 、岡崎 茂俊 <sup>7</sup> (1. 静岡大院総合、2. 静岡大創造院、3. 筑波大数理物質、4. 静岡県大食品栄養、5. 神戸大理、6. 神戸大分子フォト、7. 浜松医大光先端)                                                                                                                  |
| 10 : 40          | 休憩／リハーサル                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                        |

第3日目 (9月16日 木曜日)

| Zoom C 会場                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Zoom D 会場                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8 : 30  |
| 開場／リハーサル (9:20～)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 開場／リハーサル (9:20～)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9 : 20  |
| 中村 一希 (千葉大)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 廣瀬 崇至 (京大)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| <p>[3C01] 分子内一重項分裂の三重項対開裂過程におけるエンタルピー・エントロピー補償効果</p> <p>*中村 俊太<sup>1</sup>、酒井 隼人<sup>1</sup>、婦木 正明<sup>2</sup>、小堀 康博<sup>2</sup>、Tkachenko NIKOLAI<sup>3</sup>、羽曾部 卓<sup>1</sup> (1. 慶大理工、2. 神戸大分子フォトサイエンス研究センター、3. タンペレ大)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>[3D01 ★] High-speed Bending of Salicylideneaniline Crystals based on Photoisomerization, Photothermal Effect, and Natural Vibration.</p> <p>*Shodai HASEBE<sup>1</sup>, Yuki HAGIWARA<sup>1</sup>, Jun KOMIYA<sup>1</sup>, Meguya RYU<sup>2</sup>, Hiroki FUJISAWA<sup>3</sup>, Junko MORIKAWA<sup>3</sup>, Tetsuro KATAYAMA<sup>4</sup>, Daiki YAMANAKA<sup>4</sup>, Akihiro FURUBE<sup>4</sup>, Hiroyasu SATO<sup>5</sup>, Toru ASAH<sup>1,6</sup>, Hideko KOSHIMA<sup>6</sup> (1. Grad. Sch. of Adv. Sci. and Eng., Waseda Univ., 2. AIST, 3. Sch. of Mat. Chem. Tech., Tokyo Tech., 4. Dept. of Optical Sci., Tokushima Univ., 5. Rigaku Corp., 6. Res. Org. for Nano and Life Innov., Waseda Univ.)</p> | 9 : 40  |
| <p>[3C02★] Real-time control of liquid crystalline adhesive by turning ultraviolet light on and off</p> <p>*Tomoaki KONISHI<sup>1</sup>, Yuri SAIDA<sup>2</sup>, Wataru YAJIMA<sup>2</sup>, Ryo SHIKATA<sup>2</sup>, Masaki HADA<sup>2</sup>, Yuushi SHIMODA<sup>3</sup>, Kiyoshi MIYATA<sup>3</sup>, Yusuke YONEDA<sup>4</sup>, Hikaru KURAMOCHI<sup>4</sup>, Yumi NAKAIKE<sup>1</sup>, Mitsuo HARA<sup>5</sup>, Ryuma SATO<sup>6</sup>, Takuya YAMAKADO<sup>1</sup>, Ryota KOTANI<sup>1</sup>, Shohei SAITO<sup>1</sup> (1. Grad. Sch. of Sci., Kyoto Univ., 2. Grad. Sch. of Pure Appl. Sci., Univ. of Tsukuba, 3. Grad. Sch. of Sci., Kyushu Univ., 4. IMS, 5. Grad. Sch. of Eng., Nagoya Univ., 6. AIST)</p> | <p>[3D02 ★] Unexpected Highly Fluorescent Isomer Generated by NIR-Light-Driven Negative Photochromism of Bridged Imidazole Dimers</p> <p>*Natsuho MORIYAMA<sup>1</sup>, Katsuya MUTOH<sup>1</sup>, Jiro ABE<sup>1</sup> (1. Aoyama Gakuin Univ.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10 : 00 |
| <p><b>JPA Award for Young Scientist 2020 Award Lecture</b></p> <p>[3C03]</p> <p>“Development of Supramolecular Sensors using Host-Guest Interactions and Their Applications to Optical Array Chips”</p> <p>*Tsuyoshi MINAMI<sup>1</sup> (1. The Univ. of Tokyo)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>[3D03 ★] Fast T-type photochromic diarylbenzenes with various alkyl substituents in crystalline state</p> <p>*Shota HAMATANI<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Osaka City Univ.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 : 20 |
| 休憩／リハーサル                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10 : 40 |

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| 座長      | 江口 大地 (関西学院大)                                                                                                                                                                                                                                      | 五月女 光 (阪大)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 10 : 50 | <p>[3A04] シングレットフィッシュンから生成した三重項融合による遅延蛍光に及ぼす励起子拡散異方性の効果<br/>*関 和彦<sup>1</sup>、吉田 朋美<sup>2</sup>、矢後 友暁<sup>2</sup>、若狭 雅信<sup>2</sup>、加藤 隆二<sup>3</sup> (1. 産総研、2. 埼玉大、3. 日本大)</p>                                                                   | <p>[3B04] 光触媒 Z スキームによる水の光分解：光誘起電荷移動過程<br/>*谷 忠昭<sup>1</sup>、西見 大成<sup>2</sup>、内田 孝幸<sup>3</sup>、山口 友一<sup>4</sup>、工藤 昭彦<sup>4</sup> (1. 日本写真学会、2. 人工光合成化学プロセス技術研究組合、3. 東京工芸大、4. 東理大)</p>                                                                                                                                                                                                                                                                            |
| 11 : 10 | <p>[3A05] シングレット・フィッシュンと TTA の協奏による有機結晶中の励起子の長距離拡散<br/>*田村 宏之<sup>1</sup> (1. 東大)</p>                                                                                                                                                              | <p>[3B05] 過渡吸収分光法を用いた可視光吸収酸硫化物光触媒のキャリアダイナミクスの解明<br/>*東海林 良太<sup>1</sup>、Vikas NANDAL<sup>1</sup>、松崎 弘幸<sup>1</sup>、古部 昭広<sup>2</sup>、Lishua LIN<sup>3</sup>、久富 隆史<sup>3</sup>、関 和彦<sup>1</sup>、堂免 一成<sup>3,4</sup> (1. 産総研、2. 徳島大理工、3. 信州大先鋭材料研、4. 東大特別教授室)</p>                                                                                                                                                                                                      |
| 11 : 30 | <p>[3A06] ペンタセン-Au<sub>25</sub> ナノクラスター連結二量体の光励起ダイナミクス評価<br/>*酒井 隼人<sup>1</sup>、中本 真奈<sup>2</sup>、婦木 正明<sup>3</sup>、Nikolai TKACHENKO<sup>4</sup>、小堀 康博<sup>3</sup>、根岸 雄一<sup>2</sup>、羽曾部 卓<sup>1</sup> (1. 慶大理工、2. 東理大理、3. 神戸大分子フォト、4. タンペレ大)</p> | <p>[3B06★] Long-Range Trapping of Photogenerated Electrons in Halide Perovskite Films<br/>*Sachith Bhagyashree MAHESHA<sup>1</sup>、Sushant GHIMIRE<sup>1</sup>、Takuya OKAMOTO<sup>2</sup>、Tomokazu UMEYAMA<sup>3</sup>、Yuta TAKANO<sup>1,2</sup>、Hiroshi IMAHORI<sup>4</sup>、Vasudevanpillai BIJU<sup>1,2</sup> (1. Grad. Sch. of Envi. Sci., Hokkaido Univ., 2. RIES, Hokkaido Univ., 3. Grad. Sch. of Eng, Univ. of Hyogo, 4. Grad. Sch. of Eng., Kyoto Univ.)</p> |
| 11 : 50 | 休憩／リハーサル                                                                                                                                                                                                                                           | (昼休み)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 12 : 00 | <p><b>[LS] 若手研究者交流ランチョンセミナー</b><br/><b>12:00-12:40</b><br/>濱地 智之 (九大君塚研究室 M2)<br/>今井 咲希 (千葉大矢貝研究室 M1)</p>                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 12 : 40 | 開場／リハーサル (12:40～)                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 座長      | 工藤 昭彦 (東理科大)                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 13 : 00 | <p><b>JPA Award 2020 Award Lecture</b><br/>[AL08] (13:00～13:25)<br/>Development of novel transient absorption spectroscopy and reaction dynamics for highly efficient photocatalysis<br/>*Akira YAMAKATA<sup>1</sup> (1. Toyota Tech. Inst.)</p>   | 開場／リハーサル (13:20～)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 座長      | 長澤 裕 (立命館大)                                                                                                                                                                                                                                        | 立川 貴士 (神戸大)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 13 : 40 | <p>[3A07] 二次元電子振動分光による光化学系 II の励起状態ダイナミクスに関する研究<br/>*米田 勇祐<sup>1,2</sup>、Eric ARSENAULT<sup>1,2</sup>、Kayden ORCUTT<sup>1</sup>、Masakazu IWAI<sup>1,2</sup>、Graham FLEMING<sup>1,2</sup> (1. カリフォルニア大バークレー校、2. ローレンスバークレー国立研究所)</p>                | <p>[3B07★] One Photon-induced Photoelectrochemical Water Oxidation by Aluminum Porphyrin /Metal Oxides<br/>*Abin SEBASTIAN<sup>1</sup>、Fazalurahman KUTTASSERY<sup>2</sup>、Hiroshi TACHIBANA<sup>1</sup>、Haruo INOUE<sup>1</sup> (1. Dept. of Appl. Chem., Tokyo Metropolitan Univ., 2. Dept. of Chem., Univ. of Calicut)</p>                                                                                                                                        |

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| 松井 康哲 (阪府大)                                                                                                                                                                                                                            | 中田 明伸 (中大)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 座長      |
| [3C04★] Investigation of Solid-State Fluorescence Properties of Two Carborane-Based Isomers Derived from Asymmetric Fusing<br>*Junki OCHI <sup>1</sup> , Kazuo TANAKA <sup>1</sup> (1. Grad. Sch. of Eng., Kyoto Univ.)                | [3D04] 二酸化塩素を用いたバイオガス中のメタンからメタノール・ギ酸合成<br>*大久保 敬 <sup>1,2</sup> 、平松 久美子 <sup>1</sup> 、山崎 友作 <sup>3</sup> 、安東 貴史 <sup>3</sup> 、長嶺 毅 <sup>3</sup> 、裕 一寿 <sup>3</sup> (1. 阪大先導的学際研、2. 阪大高等共創研、3. 北海道興部町)                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10 : 50 |
| [3C05] 溶媒蒸気に応答する近赤外発光性有機ポーラス結晶<br>*石井 努 <sup>1</sup> 、田中 穂乃香 <sup>1</sup> 、古賀 日実子 <sup>1</sup> 、松本 泰昌 <sup>2</sup> (1. 久留米工業高専、2. 九大先導研)                                                                                               | [3D05] 金属ナノキューブの高次モードプラズモン誘起電荷分離における共鳴サイト<br>*西 弘泰 <sup>1</sup> 、立間 徹 <sup>1</sup> (1. 東大生研)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11 : 10 |
| [3C06] ビアリル分子の固体発光と結晶構造の関連性について<br>*山路 稔 <sup>1</sup> 、岡本 秀毅 <sup>2</sup> 、五島 健太 <sup>3</sup> 、谷 文都 <sup>3</sup> (1. 群馬大院理工、2. 岡山大院自然科学、3. 九大先導研)                                                                                      | [3D06★] Elucidation of the emission mechanism in Eu(III) complexes doped host-guest films using time-resolved spectroscopy<br>*Shiori MIYAZAKI <sup>1</sup> , Kiyoshi MIYATA <sup>1</sup> , Ferreira da Rosa Pedro PAURO <sup>2</sup> , Fumiya SUZUE <sup>2</sup> , Kenichi GOUSHI <sup>3</sup> , Chihaya ADACHI <sup>3</sup> , Yuichi KITAGAWA <sup>4,5</sup> , Yasuchika HASEGAWA <sup>4,5</sup> , Ken ONDA <sup>1</sup> (1. Dept. of Chem., Kyushu Univ., 2. Grad. Sch. of Chem. Sci. Eng., Hokkaido Univ., 3. OPERA, Kyushu Univ., 4. Fac. of Eng., Hokkaido Univ., 5. WPI-ICReDD, Hokkaido Univ.)                                | 11 : 30 |
| (昼休み)                                                                                                                                                                                                                                  | (昼休み)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11 : 50 |
| 開場／リハーサル (13:20～)                                                                                                                                                                                                                      | 開場／リハーサル (13:20～)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13 : 20 |
| 田中 一生 (京大)                                                                                                                                                                                                                             | 押切 友也 (北大)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 座長      |
| [3C07] 2つの蛍光団を持つアダマンチリデンアダマンタン 1,2-ジオキセタンの結晶内化学発光特性評価<br>*松橋 千尋 <sup>1</sup> 、大山 滉永 <sup>2</sup> 、植草 秀裕 <sup>2</sup> 、佐藤 文菜 <sup>3</sup> 、一柳 光平 <sup>4</sup> 、牧 昌次郎 <sup>1</sup> 、平野 誉 <sup>1</sup> (1. 電気通信大、2. 東工大、3. 自治医科大、4. 高エネ研) | [3D07] Unraveling the impact of the non-linear processes in optical trapping: the role of optical resonance effect on single-trapped perylenediimide-doped microparticle at an interface<br>*Roger Bresoli OBACH <sup>1</sup> , Tetsuhiro KUDO <sup>3</sup> , Boris LOUIS <sup>1,4</sup> , Hiroshi MIYASAKA <sup>5</sup> , Syoji ITO <sup>5</sup> , Hikaru SOTOME <sup>5</sup> , Ivan G. SCHEBLYKIN <sup>4</sup> , Hiroshi MASUHARA <sup>2</sup> , Johan HOFKENS <sup>1,6</sup> (1. KULeuven, 2. National Yang Ming Chiao Tung Univ., 3. Toyota Tech. Inst., 4. Lund Univ., 5. Osaka Univ., 6. Max Planck Inst. for Polymer Research) | 13 : 40 |

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| 14 : 00 | [3A08] Luminescent photochromism of electron donor-acceptor chromophore in mesoporous silica nanochannels<br>*Raj Kumar KONINTI <sup>1</sup> , Tetsu TAMURA <sup>1</sup> , Kiyoshi MIYATA <sup>1</sup> , Youichi TSUCHIYA <sup>2</sup> , Chihaya ADACHI <sup>2</sup> , Ken ONDA <sup>1</sup> (1. Grad. Sch. of Sci., Kyushu Univ., 2. OPERA) | [3B08] Excitonic coupling phenomenon directly revealed on single chains of polyfluorene by combined force spectroscopy and fluorescence microscopy<br>Tomonori NAKAMURA <sup>1</sup> , Shun OMAGARI <sup>1</sup> , Xiaobin LIANG <sup>1</sup> , Ken NAKAJIMA <sup>1</sup> , *Martin VACHA <sup>1</sup> (1. Tokyo Inst. Tech.)                                                                                                                                                                                                     |
| 14 : 20 | [3A09] 人血清アルブミン中におけるケトプロフェンとアミノ酸側鎖の光化学反応<br>*柏原 航 <sup>1</sup> 、上田 一義 <sup>1,2</sup> 、鈴木 正 <sup>1</sup> (1. 青学大理工、2. 横国大工)                                                                                                                                                                                                                   | [3B09 ★] Sensitizer-Host-Annihilator Ternary Blends for Efficient Photon Upconversion<br>*Yuji SAKAMOTO <sup>1</sup> , Yasunari TAMAI <sup>1,2</sup> , Hideo OHKITA <sup>1</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. JST PRESTO)                                                                                                                                                                                                                                                                                              |
| 14 : 40 | [3A10] 高感度過渡吸収分光装置の開発とそれを用いた酸化チタンにおける電荷再結合反応の追跡<br>*加藤 隆二 <sup>1</sup> 、中川 達央 <sup>2</sup> (1. 日大工、2. ユニソク)                                                                                                                                                                                                                                  | [3B10] 誘電体メタサーフェスによる増強光磁場を利用したルテニウム錯体のスピン禁制励起<br>*杉本 泰 <sup>1,3</sup> 、長谷部 宏明 <sup>1</sup> 、古山 漢行 <sup>2,3</sup> 、藤井 稔 <sup>1</sup> (1. 神戸大工、2. 金沢大理、3. JST さきがけ)                                                                                                                                                                                                                                                                                                                                                                 |
| 15 : 00 | 休憩／リハーサル                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 座長      | 荒木 保幸 (東北大)                                                                                                                                                                                                                                                                                                                                  | 矢後 友暁 (埼玉大)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 15 : 10 | [3A11] TCNQ のフェムト秒過渡吸収スペクトルと熱活性化遅延蛍光<br>*飯森 俊文 <sup>1</sup> 、鳥井 悠人 <sup>1</sup> 、石川 拓 <sup>1</sup> 、玉井 尚登 <sup>2</sup> (1. 室蘭工大理工、2. 関学大院理工)                                                                                                                                                                                                 | [3B11] OH ラジカルと有機酸との反応におけるスピンドイナミックスの時間分解 ESR による研究<br>*野坂 芳雄 <sup>1</sup> 、栗原 豊 <sup>2</sup> 、北澤 正広 <sup>3</sup> 、荳澤 孝、野坂 篤子 (1. 長岡技科大、2. サンアロー(株)、3. 日本電子(株))                                                                                                                                                                                                                                                                                                                                                                   |
| 15 : 30 | [3A12] Detection of Higher-lying Excited States in Luminescent Materials using Multi-Pulse Transient Spectroscopy<br>*Kiyoshi MIYATA <sup>1</sup> , Masaki SAIGO <sup>1</sup> , Ken ONDA <sup>1</sup> (1. Kyushu Univ.)                                                                                                                      | [3B12] Novel photo-polymerisation reaction of indole and derivatives studied by fluorescence micro-spectroscopy<br>*Jonathan Roger WOODWARD <sup>1</sup> , Xu TAO <sup>1</sup> , Noboru IKEYA <sup>1</sup> (1. The Univ. of Tokyo)                                                                                                                                                                                                                                                                                                |
| 15 : 50 | [3A13] フェムト秒顕微過渡吸収分光法によるハロゲン化鉛ペロブスカイト結晶における偏光励起キャリアダイナミックスの観測<br>*片山 哲郎 <sup>1</sup> 、藤田 優真 <sup>1</sup> 、赤木 裕一郎 <sup>1</sup> 、古部 昭広 <sup>1</sup> (1. 徳島大)                                                                                                                                                                                   | [3B13] Optically evolving condensation of protein: A sub-millimeter 3-dimensional domain formation from solution surface<br>*Shuichi TOYOUCHI <sup>1</sup> , Po-Wei YI <sup>1,2</sup> , Wei-Hsiang CHIU <sup>1</sup> , Roger Bresoli-OBACH <sup>3</sup> , Johan HOFKENS <sup>3</sup> , Eri CHATANI <sup>4</sup> , Teruki SUGIYAMA <sup>1,2</sup> , Ryohei YASUKUNI <sup>2</sup> , Yoichiroh HOSOKAWA <sup>2</sup> , Hiroshi MASUHARA <sup>1</sup> (1. DAC, NYCU, 2. NAIST, 3. Dept. of Chem., KUL, 4. Dept. of Chem., Kobe Univ.) |
| 16 : 10 | [3A14] フェムト秒ポンプ-プローブ顕微分光による銅フタロシアニン単一ナノロッドの励起子拡散ダイナミックス<br>*石橋 千英 <sup>1</sup> 、木原 諒 <sup>1</sup> 、朝日 剛 <sup>1</sup> (1. 愛媛大)                                                                                                                                                                                                                | [3B14] Optical trapping dynamics of dye-doped polystyrene microparticles: Resonance enhancement in ensemble system<br>*Hiroshi MASUHARA <sup>1</sup> , Yu-Chia CHANG <sup>1</sup> , Shuichi TOYOUCHI <sup>1</sup> , Tetsuhiro KUDO <sup>3</sup> , Roger BRESOLI-OBACH <sup>2</sup> , Johan HOFKENS <sup>2</sup> (1. DAC, NYCU, 2. KULeuven, 3. Toyota Tech. Inst.)                                                                                                                                                                |
| 16 : 40 | ポスター発表 (Remo 会場)<br>16 : 40~18 : 20                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <p>[3C08] アントラセンエンドペルオキシド結晶の加熱による近赤外化学発光の反応解析<br/>*山崎 倫尚<sup>1</sup>、松橋 千尋<sup>1</sup>、大山 滉永<sup>2</sup>、植草 秀裕<sup>2</sup>、森川 淳子<sup>3</sup>、劉 芽久哉<sup>4</sup>、牧 昌次郎<sup>1</sup>、平野 誉<sup>1</sup> (1. 電通大院情報理工、2. 東工大理学院、3. 東工大物質理工学院、4. 産総研)</p>                                                                                                       | <p>[3D08★] Visible and Near Infrared Light Induced Electron Injection from Perylene Bisimide to ZnS Nanocrystals with Stepwise Two-Photon Absorption Process<br/>*Daisuke YOSHIOKA<sup>1</sup>, Yoichi KOBAYASHI<sup>1</sup> (1. Fac. of Life Sci., Ritsumeikan Univ.)</p>                         | 14 : 00 |
| <p>[3C09] アリールスルホニル基を有する熱活性化遅延蛍光分子の固体発光挙動<br/>*松井 康哲<sup>12</sup>、横山 雄大<sup>1</sup>、西郷 将生<sup>3</sup>、宮田 潔志<sup>3</sup>、石原 賢太<sup>1</sup>、大垣 拓也<sup>12</sup>、太田 英輔<sup>12</sup>、内藤 裕義<sup>12</sup>、恩田 健<sup>3</sup>、池田 浩<sup>12</sup> (1. 阪府大院工、2. 阪府大 RIMED、3. 九大院理)</p>                                                                               | <p>[3D09] 単一分子蛍光分光により見出された高分子緩和過程の特異的な温度依存性：モード結合理論による考察<br/>*石川 満<sup>1</sup>、深瀬 里咲<sup>1</sup>、原田 悠希<sup>1</sup>、宇和田 貴之<sup>1</sup> (1. 城西大学)</p>                                                                                                                                                | 14 : 20 |
| <p>[3C10] フェニルエタンジオール類の有機結晶が示す超長寿命りん光におけるキラリティーの効果<br/>*唐津 孝<sup>1</sup>、石垣 要<sup>1</sup>、山田 大<sup>1</sup>、谷口 竜王<sup>1</sup> (1. 千葉大院工)</p>                                                                                                                                                                                                             | <p>[3D10] Chlorogenic Acids Protect Organic Dyes against Photobleaching<br/>Kino TSUCHIDA<sup>1</sup>, *Yukiko TAKAHASHI<sup>1</sup>, Hisako OKUMURA<sup>2</sup> (1. Nagaoka Univ. of Tech., 2. Nagaoka National College of Tech.)</p>                                                             | 14 : 40 |
| 休憩／リハーサル                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                    | 15 : 00 |
| 平野 誉 (電通大)                                                                                                                                                                                                                                                                                                                                              | 石井 あゆみ (帝京科学大)                                                                                                                                                                                                                                                                                     | 座長      |
| <p>[3C11] ヘテロール縮環構造を精密に導入にすることによるチオフェン縮環ナフトジホスホールの光物性制御<br/>*石田 圭一<sup>1</sup>、東野 智洋<sup>1</sup>、今堀 博<sup>1,2</sup> (1. 京大院工、2. 京大 WPI-iCeMS)</p>                                                                                                                                                                                                       | <p>[3D11] 照射型電流計測 AFM で明らかにする高分子ブレンド薄膜太陽電池における溶媒添加剤効果<br/>*辨天 宏明<sup>1</sup>、山形 侑嗣<sup>1</sup>、中村 雅一<sup>1</sup> (1. 奈良先端大)</p>                                                                                                                                                                    | 15 : 10 |
| <p>[3C12] 分子長軸の両端にイミド基を持つフェナセン誘導体の蛍光の溶媒応答<br/>吉岡 海渡<sup>1</sup>、山路 稔<sup>2</sup>、五島 健太<sup>3</sup>、谷 文都<sup>3</sup>、*岡本 秀毅<sup>1</sup> (1. 岡山大院自然科学、2. 群馬大院理工、3. 九大先導研)</p>                                                                                                                                                                             | <p>[3D12] Molecular Modeling for Verification of Decisive Roles of Van Der Waals Aggregation of Triiodide Ions for Photoelectric conversion in Wet-Type N3-Dye-Sensitized Solar Cells<br/>*Shozo YANAGIDA<sup>1</sup>, Susumu YANAGISAWA<sup>2</sup> (1. Osaka Univ., 2. Univ. of the Ryukyus)</p> | 15 : 30 |
| <p>[3C13] 橋かけスチルベン：ゆるやかな環構造による無輻射失活過程の設計<br/>*岩井 梨輝<sup>1</sup>、小西 玄一<sup>1</sup> (1. 東工大物質理工)</p>                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                    |         |
| <p>[3C14 ★] Delayed Luminescence Properties of Imide Compounds having Naphthalene, Biphenyl and Oxidiphthalic Core Structures.<br/>*Marina DOI<sup>1</sup>, Koichiro MUTO<sup>1</sup>, Mayuko NARA<sup>1</sup>, Naiqiang LIANG<sup>1</sup>, Ryohei ISHIGE<sup>1</sup>, Shinji ANDO<sup>1</sup> (1. Dept. of Chem. Sci. and Eng., Tokyo Inst. Tech.)</p> |                                                                                                                                                                                                                                                                                                    |         |
| ポスター発表 (Remo 会場)<br>16 : 40～18 : 20                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                    | 16 : 40 |

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## ポスター発表

**1 日目 2021 年 9 月 14 日(火) 17:00-18:40**

[1P01★] 高い  $T_1$  準位を有するペンタレンジオン基盤シングレットフィッション材料の開発

\*長岡 朋希<sup>1</sup>、松井 康哲<sup>1,2</sup>、大垣 拓也<sup>1,2</sup>、太田 英輔<sup>1,2</sup>、池田 浩<sup>1,2</sup> (1. 阪府大院工、2. 阪府大 RIMED)

[1P02★] 重金属フリーな可視—紫外フォトン・アップコンバージョン系の開発

\*宇治 雅記<sup>1</sup>、原田 直幸<sup>1</sup>、君塚 信夫<sup>1,2</sup>、楊井 伸浩<sup>1,2,3</sup> (1. 九大院工、2. 九大 CMS、3. JST さきがけ)

[1P03★] ハサミ型アゾベンゼン二量体の自己集合により形成されるナノリングの光応答性

\*有馬 大就<sup>1</sup>、矢貝 史樹<sup>2</sup>、サンチェス ルイス<sup>3</sup>、バレラ ホルヘ<sup>4</sup> (1. 千葉大院融合理工、2. 千葉大 IGPR、3. マドリード・コンプルテンセ大有機化学部、4. ストラスブール大 国立科学研究センター)

[1P04★] アゾベンゼン誘導体—量子ドット配列構造の構築と形成メカニズムの解明

\*久保 直輝<sup>1</sup>、山内 光陽<sup>1</sup>、増尾 貞弘<sup>1</sup> (1. 関学大院理工)

[1P05★] ロイコ色素/顔色剤のサーモクロミズムによるシリカナノ粒子コロイドアモルファス構造色の非干渉性散乱制御

\*小林 遼平<sup>1</sup>、小林 範久<sup>1</sup>、中村 一希<sup>1</sup> (1. 千葉大院工研究院)

[1P06★] DNA 骨格を利用した高輝度 CPL 発現ピレン会合体の探索

\*伊藤 有香<sup>1</sup>、檜田 啓<sup>1</sup>、角田 貴洋<sup>2</sup>、生越 友樹<sup>3</sup>、浅沼 浩之<sup>1</sup> (1. 名大院工、2. 金沢大院自然、3. 京大院工)

[1P07★] 光応答性界面活性剤のアルブミンへの選択的吸着に伴う細胞膜透過性の制御

\*篠原 真衣<sup>1</sup>、薇薇 徐<sup>2</sup>、善南 金<sup>2</sup>、深港 豪<sup>2</sup>、新留 琢朗<sup>2</sup>、栗原 清二<sup>2</sup> (1. 熊本大院自然科学教育部、2. 熊本大院先端科学研究部)

[1P08★E] Photochromic reaction behavior and improved fatigue-resistance of a diarylethene included in cyclodextrin with different pore sizes

\*Ryotaro MIYAMOTO<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Osaka City Univ.)

[1P09★] 非対称ジアリールエテン二量体の光化学過程の速度論的解析

\*廣安 八重<sup>1</sup>、白方 千裕<sup>1</sup>、杉本 将崇<sup>1</sup>、東口 顕士<sup>1</sup>、松田 建児<sup>1</sup> (1. 京大院工)

[1P10★] 二方向の光閉環が可能な非対称型テトラアリーレンの合成と物性評価

\*杉本 将崇<sup>1</sup>、東口 顕士<sup>1</sup>、松田 建児<sup>1</sup> (1. 京大院工)

[1P11★] 双性イオン型ローダミンの自己集合による刺激応答性超分子光触媒の創成

\*萩尾 里美<sup>1</sup>、重光 孟<sup>1</sup>、谷 陽平<sup>1</sup>、木田 敏之<sup>1</sup> (1. 阪大院工)

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[1P12] 酸化チタン上での不斉光水素化反応における新規なキラル共吸着剤の特性

\*甲谷 繁<sup>1</sup>、川島 彩有里<sup>1</sup>、三浦 友里華<sup>1</sup>、根来 弦輝<sup>1</sup>、川島 祥<sup>1</sup>、大谷 文章<sup>2</sup>、宮部 豪人<sup>1</sup> (1. 兵庫医療大薬、2. 北大触媒研)

[1P13★] バルビツール酸置換ジフェニルチオフェン分子の超分子ポリマー化による発光増強

\*川浦 麻衣花<sup>1</sup>、矢貝 史樹<sup>2</sup> (1. 千葉大院融合理工、2. 千葉大 IGPR)

[1P14★] 新規 AIE 色素橋かけジスチリルベンゼンの合成および固体蛍光と結晶構造との相関

\*下村 祥通<sup>1</sup>、小西 玄一<sup>1</sup> (1. 東工大)

[1P15★] Push-pull 型橋かけスチルベンの蛍光溶バトクロミズム特性

\*田中 拓哉<sup>1</sup>、小西 玄一<sup>1</sup> (1. 東工大物質理工)

[1P16★E] Tuning the Mechanochromically Luminescent Properties of Thienylbenzothiadiazole by Forming Mixed Crystals

\*Ryohei YOSHIDA<sup>1</sup>, Suguru ITO<sup>1</sup> (1. Grad. Sch. of Eng. Sci., Yokohama Natl. Univ.)

[1P17★E] Fluorescence and Phosphorescence Properties of Sulfur-containing Polyimides having Adamantyl Skeletal Structure in the Main Chain

\*Hiroka YAMAMATSU<sup>1</sup>, Atsuko TABUCHI<sup>1</sup>, Naiqiang LIANG<sup>1</sup>, Ryohei ISHIGE<sup>1</sup>, Shinji ANDO<sup>1</sup> (1. Dept. of Chem. Sci. and Eng., Tokyo Inst. Tech.)

[1P18★E] Long-range mode coupling of 2D microdisks array made of organic semiconductor thin films and its controllability

\*Akihiro KAMEDA<sup>1</sup>, Sunao SHIMOMOTO<sup>1</sup>, Hiroyuki TAJIMA<sup>1</sup>, Junichi YAMADA<sup>1</sup>, Tokuji YOKOMATSU<sup>2</sup>, Kazusuke MAENAKA<sup>2</sup>, Takeshi KOMINO<sup>1</sup> (1. Grad. Fac. of Sci., Univ. Hyogo, 2. Grad. Fac. of Eng., Univ. Hyogo)

[1P19★E] Two-step mechanochromic luminescence based on the formation of charge-transfer complexes within a two-component dye

\*Masayasu MUNAKATA<sup>1</sup>, Ryohei SEKINE<sup>1</sup>, Takashi TACHIKAWA<sup>2,3</sup>, Suguru ITO<sup>1</sup> (1. Grad. Sch. of Eng. Sci., Yokohama Natl. Univ., 2. Grad. Sch. of Sci., Kobe Univ., 3. Mol. PhotoSci. Res. Center, Kobe Univ.)

[1P20★E] Development of Novel Near-Infrared Fluorescent Dye for *in vivo* Two-photon Microscopic Imaging of Deep-Brain Vasculature of Mice

\*Hitomi MATSUURA<sup>1</sup>, Yousuke NIKO<sup>1</sup>, Shingo HADANO<sup>1</sup>, Shigeru WATANABE<sup>1</sup>, Takeshi IMAMURA<sup>2</sup>, Ryousuke KAWAKAMI<sup>2</sup> (1. Kochi Univ., 2. Ehime Univ.)

[1P21★] ジフェニルホスホリル基を持つアルキニルアントラセンの光物性に対する置換基効果

\*村山 仁愛<sup>1</sup>、ホロラン ジョエル<sup>2</sup>、箕浦 真生<sup>3</sup>、中野 晴之<sup>4</sup>、生駒 忠昭<sup>2</sup>、俣野 善博<sup>2</sup> (1. 新潟大院自然、2. 新潟大理、3. 立教大理、4. 九大院理)

[1P22★] 固体状態で強く蛍光する新規ビアンスリル誘導体

\*岩崎 智子<sup>1</sup>、伊藤 亮孝<sup>1</sup> (1. 高知工大院工)

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[1P23★] テトラアリール[3]クムレンの光二量体合成と発光特性評価

\*星 恵太<sup>1</sup>、片山 哲郎<sup>1,2</sup>、古部 昭広<sup>1,2</sup>、南川 慶二<sup>1</sup>、今田 泰嗣<sup>1</sup>、八木下 史敏<sup>1,2</sup> (1. 徳島大院理工、2. 徳島大ポストLED研)

[1P24★] カチオン性 NHC 銅(I)錯体を用いた結晶中の分子ギア運動の精密制御と固体発光性

\*安藤 廉平<sup>1</sup>、陳 旻究<sup>1,2</sup>、Marcas JELLEN<sup>3</sup>、Miguel GARCIA-GARIBAY<sup>3</sup>、伊藤 肇<sup>1,2</sup> (1. 北大院工、2. 北大 WPI-ICReDD、3. カリフォルニア大ロサンゼルス校)

[1P25★] カチオン添加による phenylquinoline 類の青色発光増強

\*浅野 惇<sup>1</sup>、石垣 要<sup>1</sup>、谷口 竜王<sup>1</sup>、唐津 孝<sup>1</sup> (1. 千葉大院工)

[1P26★] [2.2]パラシクロファン部を有する有機ボロン錯体の結晶の蛍光特性に対する圧力応答性

\*入井 駿<sup>1</sup>、大垣 拓也<sup>1,2</sup>、阿利 拓夢<sup>1</sup>、山本 俊<sup>1</sup>、宮下 花<sup>3</sup>、鼻 一隆<sup>3</sup>、飯田 洋輝<sup>3</sup>、小澤 芳樹<sup>3</sup>、阿部 正明<sup>3</sup>、佐藤 寛泰<sup>4</sup>、太田 英輔<sup>1,2</sup>、松井 康哲<sup>1,2</sup>、池田 浩<sup>1,2</sup> (1. 2. 阪府大 RIMED、3. 兵庫県立大院理、4. リガク)

[1P27★] 新規水溶性ジフェニルアントラセン誘導体の合成と微小球状イオン交換媒体への複合化

\*美里 泰蔵<sup>1</sup>、伊藤 亮孝<sup>1</sup> (1. 高知工大院工)

[1P28★] 二酸化塩素を用いたジベンゾチオフェンの光酸化反応とその選択性

\*嶋田 裕介<sup>1</sup>、浅原 時泰<sup>1</sup>、井上 豪<sup>1</sup>、大久保 敬<sup>2,3</sup> (1. 阪大院薬、2. 阪大高等共創研、3. 阪大先導学際研)

[1P29★] 複合光触媒による染料の吸着と光分解に及ぼす表面水酸基の影響

\*浅野 友我<sup>1</sup>、永田 衛男<sup>1</sup> (1. 東理大)

[1P30★E] Elucidation of the effect of type-II electron transfer on photocatalytic hydrogen production

\*Haruki NAGAKAWA<sup>1</sup>, Morio NAGATA<sup>1</sup> (1. Tokyo Univ. Sci.)

[1P31★E] Investigation on pseudo-overpotentials of heterogeneous nanoparticles for water oxidation by Ru(II) photosensitizers

\*Megumi OKAZAKI<sup>1</sup>, Yasuomi YAMAZAKI<sup>2</sup>, Osamu ISHITANI<sup>1</sup>, Kazuhiko MAEDA<sup>1</sup> (1. Fac. of Sci., Tokyo Inst. Tech., 2. Fac. of Sci. and Eng., Seikei Univ.)

[1P32★E] Investigation of LMCT excited states on the luminescent properties of Eu(III) complexes with carbazole frameworks

\*Kota AIKAWA<sup>1</sup>, Yuichi KITAGAWA<sup>2,3</sup>, Sunao SHOJI<sup>2,3</sup>, Koji FUSHIMI<sup>2</sup>, Yasuchika HASEGAWA<sup>2,3</sup> (1. Grad. Sch. Chem. Eng., Hokkaido Univ., 2. Fac. of Eng., Hokkaido Univ., 3. WPI-ICReDD, Hokkaido Univ.)

[1P33★] フェロセン縮環架橋 ペリレンイミド二量体の分光特性

\*森本 裕詞<sup>1</sup>、松尾 恭平<sup>1</sup>、山田 容子<sup>1</sup>、荒谷 直樹<sup>1</sup> (1. 奈良先端大)

[1P34★E] Fluorescence changes of dibenzoylmethanato boron difluoride complex with aggregation-induced emission property during the evaporative crystallization.

\*Yushi FUJIMOTO<sup>1</sup>, Yoshifumi MOCHIDUKI<sup>2</sup>, Fuyuki ITO<sup>1,2</sup> (1. Grad. Sch. of Sci. and Tech., Shinshu Univ., 2. Inst. of Edu., Shinshu Univ.)

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[1P35★E] Mechanically Modulated Emission from Perovskite Quantum Dot Assemblies

\*Zhijing ZHANG<sup>1,2</sup>, Takuya OKAMOTO<sup>2</sup>, Vasdevan Pillai BIJU<sup>1,2</sup> (1. Fac. of Env., Hokkaido Univ., 2. RISE, Hokkaido Univ. )

[1P36★E] A Cyanine Based Molecular Rotor Probe for Colorimetric and Fluorimetric Sensing of Heparin.

\*Shrishti P. PANDEY<sup>1,2</sup>, Pamela JHA<sup>1</sup>, Prabhat K. SINGH<sup>2,3</sup> (1. Amity Univ. Mumbai, India 2. Radiation & Photochemistry Division, Bhabha Atomic Research Centre, Mumbai, India, 3. Homi Bhabha National Institute, Anushaktinagar, Mumbai, India)

[1P37★] キラルナノ周期構造のプラズモン共鳴を用いた造形

\*本間 徹<sup>1</sup>、石田 拓也<sup>1</sup>、立間 徹<sup>1</sup> (1. 東大生産研)

[1P38★] プラズモニックナノ構造体におけるキラル光学特性の形態依存性

\*中根 佑真<sup>1</sup>、石田 拓也<sup>1</sup>、立間 徹<sup>1</sup> (1. 東大生産研)

[1P39★] 自己組織化法を用いた金ナノ粒子の高密度担持によるモード強結合強度の増大

\*菅浪 誉騎<sup>1</sup>、押切 友也<sup>1</sup>、三友 秀之<sup>1,3</sup>、石 旭<sup>2</sup>、三澤 弘明<sup>1,4</sup> (1. 北大電子研、2. 北大創成研究機構、3. 北大国際連携研究教育局、4. 国立陽明交通大)

[1P40★E] Functionalization of Plasmonic Cathode Electrodes using Molecular Catalyst

\*Ryoji SUZUKI<sup>1</sup>, Hiro MINAMIMOTO<sup>2</sup>, Kei MURAKOSHI<sup>2</sup> (1. Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 2. Grad. Sch. of Sci., Hokkaido Univ.)

[1P41★E] *trans* → *cis* and *cis* → *trans* photochromic isomerization of Indigo derivatives studied by global analysis

\*Yu KIHARA<sup>1</sup>, Yamato HIGASHI<sup>1</sup>, Shuntaro TANI<sup>2</sup>, Yutaka NAGASAWA<sup>2</sup> (1. Fac. of Sci. Ritsumeikan Univ., 2. Fac. of Sci. Ritsumeikan Univ.)

[1P42★E] Hot Electron Transfer Dynamics of CdSe/ZnS Quantum Dots-Fullerene Systems

\*Yuki TAGA<sup>1</sup>, Kousuke TSUJI<sup>1</sup>, Daichi EGUCHI<sup>1</sup>, Naoto TAMAI<sup>1</sup> (1. Kwansei Gakuin Univ.)

[1P43★] 無機ナノシート上への吸着によるカチオン性金属ポルフィリンの S<sub>2</sub> 発光増強

\*梨本 舞奈<sup>1</sup>、藤村 卓也<sup>1</sup>、笹井 亮<sup>1</sup> (1. 島根大院自然)

[1P44★] 多孔性電荷移動錯体が示すゲスト交換挙動とベイポクロミズム特性

\*福富 郷史<sup>1</sup>、小野 利和<sup>1,2</sup>、久枝 良雄<sup>1,2</sup> (1. 九大院工、2. 九大 CMS)

[1P45★E] Multimodal Detection of Circulating Tumor Cells Using Multifunctional Silica Particles

\*Jeladhara SOBHANAN<sup>1</sup>, Yuta TAKANO<sup>1</sup>, Vasudevanpillai BIJU<sup>1</sup> (1. Hokkaido Univ.)

[1P46★] ピレニルエチニル基を有したチオウリジン誘導体の新規合成とその励起状態ダイナミクス

\*松岡 泰樹<sup>1</sup>、柏原 航<sup>1</sup>、鈴木 正<sup>1</sup> (1. 青学大院理工)

[1P47★E] Isomerization dynamics of the excited-states intramolecular proton transfer molecule with luminescent property

\*Tomohiro RYU<sup>1</sup>, Aya TACHIBANA<sup>1</sup>, Kiyoshi MIYATA<sup>1</sup>, Toshiki MUTAI<sup>2</sup>, Ken ONDA<sup>1</sup> (1. Fac. of Sci., Kyushu Univ., 2. IIS, The Univ. of Tokyo)

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[1P48★] 近赤外固体系三重項-三重項消滅光アップコンバージョンにおけるルブレン誘導体の置換基効果とそのメカニズム

\*澤 あか音<sup>1,2</sup>、トリパティ ニーティ<sup>1</sup>、ヘック クライレ<sup>1</sup>、溝黒 登志子<sup>3</sup>、橘 浩昭<sup>3</sup>、玉井 尚登<sup>2</sup>、葛原 大軌<sup>4</sup>、山田 容子<sup>5</sup>、鎌田 賢司<sup>1,2</sup>(1. 産総研ナノ材料、2. 関学大院理工、3. 産総研電子光、4. 岩手大理工、5. 奈良先端大物質創成)

[1P49★E] In-water triplet dynamic nuclear polarization of nanocrystals prepared by reprecipitation method

\*Naoto MATSUMOTO<sup>1</sup>, Koki NISHIMURA<sup>1</sup>, Kenichiro TATEISHI<sup>3</sup>, Tomohiro UESAKA<sup>3</sup>, Nobuo KIMIZUKA<sup>1,2</sup>, Nobuhiro YANAI<sup>1,2,4</sup>(1. Grad. Sch. of Eng., Kyushu Univ., 2. CMS, Kyushu Univ., 3. RIKEN Nishina Center for Accelerator-Based Science, 4. PRESTO, JST)

[1P50] High-speed Bending of Anisole Crystals Based on Photothermal Effect and Natural Vibration

\*Yuki HAGIWARA<sup>1</sup>, Shodai HASEBE<sup>1</sup>, Meguya RYU<sup>2</sup>, Hiroki FUJISAWA<sup>3</sup>, Junko MORIKAWA<sup>3</sup>, Toru ASAHI<sup>1,4</sup>, Hideko KOSHIMA<sup>4</sup>(1. Grad. Sch. of Adv. Sci. and Eng., Waseda Univ., 2. Res. Inst. for Mat. and Chem. Measurement, AIST, 3. Sch. Mat. Chem. Tech., Tokyo Inst. Tech., 4. Res. Org. Nano Life Innov., Waseda Univ.)

[1P51★E] Color variants of photoluminescent polymer dots doped with iridium complexes

\*Zuoyue LIU<sup>1</sup>, Guillem PRATX<sup>2</sup>, Mamoru FUJITSUKA<sup>1</sup>, Yasuko OSAKADA<sup>1,3</sup>(1. SANKEN, Osaka Univ., 2. Stanford Univ., 3. Ins. for Adv. Co-Cre., Osaka Univ.)

[1P52★] 構造色を示すポリスチレンコロイド結晶への蛍光色素の複合化とその光物理特性

\*吉田 歩未<sup>1</sup>、小林 範久<sup>1</sup>、中村 一希<sup>1</sup>(1. 千葉大)

[1P53★] アゾベンゼン系分子ガラス微粒子のフォトメカニカル挙動に与える周囲のハイドロゲルの影響

\*松原 情菜<sup>1</sup>、鵜飼 裕康<sup>1</sup>、倉賀野 正弘<sup>1</sup>、徳樂 清孝<sup>1</sup>、中野 英之<sup>1</sup>(1. 室蘭工業大)

[1P54★] ジアリールエテンを配位子として有するペロブスカイト型量子ドットの発光フォトスイッチング

\*Mokhtar ASHKAN<sup>1</sup>、森永 竜樹<sup>1</sup>、明石 優志<sup>1</sup>、金 善南<sup>1</sup>、栗原 清二<sup>1</sup>、木田 徹也<sup>1</sup>、深港 豪<sup>1</sup>(1. 熊本大)

[1P55★E] Experimental Evaluation of Biradical Character from Reactivity of Radical Recombination Reaction

\*Moe NISHIJIMA<sup>1</sup>, Katsuya MUTOH<sup>1</sup>, Jiro ABE<sup>1</sup>(1. Aoyama Gakuin Univ.)

[1P56★E] Photochromism of Biaryl-bridged imidazole dimers with Different Types of Alryl Unit in the Bridging Unit

\*Hiroki ITO<sup>1</sup>, Katsuya MUTOH<sup>1</sup>, Jiro ABE<sup>1</sup>(1. Aoyama Gakuin Univ.)

[1P57★E] Mechanistic Studies on Temperature Dependence of Photochromism of Cu-Doped ZnS Nanocrystals

\*Yusuke SANADA<sup>1</sup>, Yoichi KOBAYASHI<sup>1</sup>(1. Fac. of Life Sci., Ritsumeikan Univ.)



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[1P58★] 可視光 1 光子による水の酸化: 半導体上のポルフィリンオリゴマーによる過酸化水素生成

\*中里 亮介<sup>1</sup>、嶋田 哲也<sup>1</sup>、石田 玉青<sup>1,2</sup>、立花 宏<sup>1</sup>、高木 慎介<sup>1,2</sup>、井上 晴夫<sup>1,2</sup> (1. 都立大院都市環境、2. 都立大水素エネルギー社会構築推進研究センター)

[1P59★] 色素多層固定化ナノ粒子光触媒の光水素発生反応における表面金属イオン依存性

\*吉村 修隆<sup>1</sup>、吉田 将己<sup>2</sup>、加藤 昌子<sup>2,3</sup>、小林 厚志<sup>2</sup> (1. 北大院総化、2. 北大院理、3. 関学大生命環境)

[1P60★E] Synthesis and photocatalytic improvement of metal-porphyrin containing nanodisks from covalent organic frameworks

\*Xinxi LI<sup>1</sup>, Guedes ARNAUD<sup>1</sup>, Kota NOMURA<sup>1</sup>, Yasuko OSAKADA<sup>1,2</sup>, Mamoru FUJITSUKA<sup>1</sup> (1. SANKEN, Osaka Univ., 2. IACS, Osaka Univ.)

[1P61★] ヒドロキシベンゼン類を前駆体とするハイパー架橋ポリマーの合成と光触媒的な過酸化水素生成

\*堀内 透<sup>1</sup>、宇佐美 久尚<sup>1</sup> (1. 信州大繊維)

[1P62★E] Light-Driven Rapid Peeling of Photochromic Diarylethene Single Crystals

\*Masato TAMAOKI<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Grad. Sch. of Eng., Osaka City Univ.)

[1P63★] 長さの異なるメチレン鎖を有するシアノスチルベン系アモルファス分子材料固相発光特性

\*福島 寛也<sup>1</sup>、森 健介<sup>1</sup>、相良 剛光<sup>2</sup>、小門 憲太<sup>3</sup>、中村 貴義<sup>3</sup>、玉置 信之<sup>3</sup>、中野 英之<sup>1</sup> (1. 室蘭工大、2. 東工大院物質理工、3. 北大電子研)

[1P64★] チオフェン環を母骨格に有するスルホン酸誘導体とアルキルアミンから成る有機塩の分子配列制御とその光電特性変換

\*赤井 亮太<sup>1</sup>、西田 竜之介<sup>1</sup>、藤内 謙光<sup>1</sup> (1. 阪大院工)

[1P65★] アントラセンジスルホン酸アミン塩とテトラシアノベンゼンからなる電荷移動錯体結晶の分子配列制御と固体発光特性

\*木下 耀<sup>1</sup>、中島 裕美<sup>1</sup>、藤内 謙光<sup>1</sup> (1. 阪大院工)

[1P66★E] Synthesis of highly luminescent Ag-Na-Ga-In-S quantum dots and their application to electroluminescence devices

\*Makoto TOZAWA<sup>1</sup>, Chie MIYAMAE<sup>1</sup>, Genichi MOTOMURA<sup>2,3</sup>, Yukiko IWASAKI<sup>3</sup>, Toshimitsu TSUZUKI<sup>3</sup>, Tatsuya KAMEYAMA<sup>1</sup>, Taro UEMATSU<sup>2</sup>, Susumu KUWABATA<sup>2</sup>, Tsukasa TORIMOTO<sup>1</sup> (1. Grad. Sch. of Eng., Nagoya Univ., 2. Grad. Sch. of Eng., Osaka Univ., 3. NHK STRL)

[1P67★E] Solution-phase Preparation of Cu-In-Ga-S Quantum Dots and Their Composition-dependent Optical Properties

\*Chang JIANG<sup>1</sup>, Tatsuya KAMEYAMA<sup>1</sup>, Taro UEMATSU<sup>2</sup>, Susumu KUWABATA<sup>2</sup>, Tsukasa TORIMOTO<sup>1</sup> (1. Fac. of Eng., Nagoya Univ., 2. Fac. of Eng., Osaka Univ.)

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[1P68★] 粘土ナノシートによる金属フタロシアニンの会合体抑制と光増感一重項酸素生成

\*岡田 和弥<sup>1</sup>、有田 一貴<sup>2</sup>、西口 雅俊<sup>1</sup>、藤村 卓也<sup>1</sup>、池上 崇久<sup>1</sup>、笹井 亮<sup>1</sup> (1. 島根大院自然、2. 島根大総合理工)

[1P69] 近赤外光で励起可能なオスミウムポリピリジル錯体を用いた光線力学療法用治療薬の開発

\*高橋 将貴<sup>1</sup>、中村 朝夫<sup>1</sup>、武井 康介<sup>1</sup> (1. 芝浦工大)

[1P70] 薄膜における三重項エネルギー捕集と分子内 TTA を利用したフォトンアップコンバージョン

\*高橋 拓海<sup>1</sup>、松井 康哲<sup>1,2</sup>、加納 雅也<sup>1</sup>、本田 清将<sup>1</sup>、大垣 拓也<sup>1,2</sup>、太田 英輔<sup>1,2</sup>、池田 浩<sup>1,2</sup> (1. 阪府大院工、2. 阪府大 RIMED)

[1P71] 層状粘土化合物と三重項-三重項消滅アップコンバージョン発光色素対を含む水系懸濁液の発光特性

\*蒔田 帆乃香<sup>1</sup>、影島 洋介<sup>1</sup>、手嶋 勝弥<sup>1</sup>、錦織 広昌<sup>1</sup> (1. 信州大工)

[1P72] Binding of Ruthenium (II) Dipyridophenazine Complex Enantiomers to Amyloid- $\beta$  Fibrils

\*Utana UMEZAKI<sup>1</sup>, Bo JIANG<sup>1</sup>, Angel MARTI<sup>1</sup> (1. Dept. of Chem., Rice Univ.)

[1P73] Ir 錯体を光増感剤とするベシクル膜を横断する光誘起電子輸送：膜分子および緩衝液の検討

\*滝沢 進也<sup>1</sup>、松永 恵也<sup>1</sup>、村田 滋<sup>1</sup> (1. 東大院総合)

[1P74] 光触媒粉末のキャリアダイナミクスにおける欠陥の影響

\*加藤 康作<sup>1</sup>、山方 啓<sup>1</sup> (1. 豊田工大)

[1P75] ユーロピウム及びテルビウムを含むアキラルな固体無機発光体からの磁気円偏光発光 (MCPL)

\*木元 隆裕<sup>1</sup>、奥野 真子<sup>1</sup>、布谷 直義<sup>2</sup>、今中 信人<sup>2</sup>、今井 喜胤<sup>1</sup> (1. 近畿大院総合理工、2. 阪大院工)

[1P76] *In vivo* 核イメージングを目指した可視光励起可能な蛍光性核染色試薬の開発

\*島津 彩<sup>1</sup>、塩崎 秀一<sup>1</sup>、飛田 成史<sup>1</sup>、吉原 利忠<sup>1</sup> (1. 群馬大院理工)

[1P77] 蛍光寿命イメージング顕微鏡を用いた蛍光性コレステロールの細胞内挙動

\*登坂 京右<sup>1</sup>、塩崎 秀一<sup>1</sup>、飛田 成史<sup>1</sup>、吉原 利忠<sup>1</sup> (1. 群馬大院理工)

[1P78] 水溶性粘度プローブおよび蛍光寿命イメージング顕微鏡を用いた毛細血管内のマイクロ粘度計測

\*江原 亮<sup>1</sup>、鈴木 唯花<sup>1</sup>、塩崎 秀一<sup>1</sup>、飛田 成史<sup>1</sup>、吉原 利忠<sup>1</sup> (1. 群馬大院理工)

[1P79] ベンゾチエニルピリジン類を配位子に有する Ir(III)

\*平形 政菜<sup>1</sup>、水上 輝市<sup>1</sup>、塩崎 秀一<sup>1</sup>、飛田 成史<sup>1</sup>、吉原 利忠<sup>1</sup> (1. 群馬大院理工)

[1P80] 緑色蛍光団で標識したオリゴアルギニンペプチドを用いた血管内皮イメージング試薬の開発

\*鷲見 さくら<sup>1</sup>、安カ川 真美<sup>1</sup>、塩崎 秀一<sup>1</sup>、飛田 成史<sup>1</sup>、吉原 利忠<sup>1</sup> (1. 群馬大院理工)

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[1P81] 水酸基の導入によって細胞内移行性を高めた小胞体局在型りん光性 Ir 錯体の開発

\*佐口 江夢<sup>1</sup>、塩崎 秀一<sup>1</sup>、飛田 成史<sup>1</sup>、吉原 利忠<sup>1</sup> (1. 群馬大院理工)

[1P82] 光線力学療法への応用を目指したトリプル pH 応答性光増感剤におけるアミノインドール置換数の及ぼす影響

\*蟹和 勇人<sup>1</sup>、堀内 宏明<sup>1</sup>、田島 和哉<sup>1</sup>、奥津 哲夫<sup>1</sup> (1. 群馬大院理工)

[1P83] 近赤外光線力学療法・診断に用いるトリプル pH 応答性光増感剤の活性化メカニズム

\*小島 優樹<sup>1</sup>、堀内 宏明<sup>1</sup>、田島 和哉<sup>1</sup>、奥津 哲夫<sup>1</sup> (1. 群馬大院理工)

[1P84] ZnO 系光触媒による過酸化水素の生成

\*鈴木 統大<sup>1</sup>、村上 能規<sup>1</sup> (1. 長岡高専)

[1P85] 光増感型水素発生系を指向した粘土ナノシート上における 電子移動反応の研究

\*嶋田 凌大<sup>1</sup>、大崎 穰<sup>1</sup>、嶋田 哲也<sup>1</sup>、石田 玉青<sup>1,2</sup>、高木 慎介<sup>1,2</sup> (1. 都立大院 都市環境、2. 水素エネルギー社会構築推進研究センター)

[1P86] 色素ドーブ光導電性高分子薄膜における正孔ダイナミクスの温度依存性

\*八代 真理子<sup>1</sup>、三浦 智明<sup>1</sup>、生駒 忠昭<sup>1</sup> (1. 新潟大院自然)

[1P87] 硝酸溶液における三価アメリシウムの f-f 遷移を介する多光子励起により誘起される酸化過程

\*松田 晶平<sup>1</sup>、横山 啓一<sup>1</sup>、矢板 毅<sup>1</sup>、小林 徹<sup>1</sup>、中島 信昭<sup>2,3</sup> (1. 原子力機構、2. 阪市大院理、3. レーザー総研)

[1P88] 蛍光分子アザフルオランテン誘導体の励起状態

\*吉川 朋花<sup>1</sup>、柏原 航<sup>1</sup>、鈴木 正<sup>1</sup>、大曲 仁美<sup>1</sup>、澤野 卓大<sup>1</sup>、長谷川 美貴<sup>1</sup>、武内 亮<sup>1</sup> (1. 青学大院理工)

[1P89] 光触媒酸化チタン粉体の発光量子収率の評価

\*高橋 壱成<sup>1</sup>、加藤 隆二<sup>1</sup> (1. 日大)

[1P90] Reduction and Precipitation of Aqueous Europium (III) under Air Atmosphere by Near-Infrared Femtosecond Laser Pulses

Kazuya TAMEJIMA<sup>1</sup>, Nobuaki NAKASHIMA<sup>1</sup>, Kenji SAKOTA<sup>1</sup>, \*Tomoyuki YATSUHASHI<sup>1</sup> (1. Grad. Sch. of Sci., Osaka City Univ.)

[1P91★] 可視光応答型酸化チタンを用いた  $\gamma$ -ケトニトリルの高選択的合成

\*勝山 陽菜<sup>1</sup>、七條 慶太<sup>1</sup>、久枝 良雄<sup>1</sup>、瀧越 恒<sup>1</sup> (1. 九大院工)

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## 2 日目 2021 年 9 月 15 日(水) 12:40-14:20

[2P01] 位置選択的ブロモ化 ITIC の光物性および太陽電池特性

\*和田 達帆<sup>1</sup>、藤丸 唯<sup>1</sup>、梅山 有和<sup>3</sup>、今堀 博<sup>1,2</sup> (1. 京大院工、2. 京大 WPI-iCeMS、3. 兵庫県立大院工)

[2P02] Photovoltaic properties of p-type dye-sensitized solar cell with push-pull type porphyrin-fullerene dyad

\*Qi GUO<sup>1</sup>, Tomohiro HIGASHINO<sup>1</sup>, Hiroshi IMAHORI<sup>1,2</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. WPI-iCeMS, Kyoto Univ.)

[2P03] レドックスポリマーを用いたバイオ太陽電池の開発

\*小幡 尚矢<sup>1</sup> (1. 東理大)

[2P04] トリフルオロメチル基を導入した可溶性新規ジフェニルヘキサトリエンの合成と蛍光特性

\*園田 与理子<sup>1</sup> (1. 産総研電子光基礎)

[2P05] シクロデキストリン誘導体のゲスト分子包接による円偏光発光特性の変調

\*山田 慎太郎<sup>1</sup>、重光 孟<sup>1</sup>、川上 晃<sup>1</sup>、森 直<sup>1</sup>、木田 敏之<sup>1</sup> (1. 阪大)

[2P06] フッ素化ジフェニルアセチレンの合成および室温燐光特性

\*盛田 雅人<sup>1</sup>、山田 重之<sup>1</sup>、今野 勉<sup>1</sup> (1. 京工繊大院工芸)

[2P07] モノマーの会合様式によって異なる高次構造及び発光特性を示す超分子ポリマー

\*佐藤 裕太<sup>1</sup>、大内 隼人<sup>2</sup>、矢貝 史樹<sup>3</sup> (1. 千葉大院融合理工、2. 沖縄科学技術大院大、3. 千葉大 IGPR)

[2P08] アントラ[2,3-*b*]ホスホール誘導体の合成と光学特性

\*工藤 裕太<sup>1</sup>、俣野 善博<sup>1</sup> (1. 新潟大院自然)

[2P09] チオフェンおよびピロール縮環ポルフィリンの合成と光学特性

\*飯泉 力哉<sup>1</sup>、東野 智洋<sup>1</sup>、今堀 博<sup>1</sup> (1. 京大院工)

[2P10] アントラセン誘導体のシクロデキストリンによる固体状態での包接とその光学特性

\*柿本 悠奈<sup>1</sup>、今井 喜胤<sup>2</sup>、中田 栄司<sup>3</sup>、高島 弘<sup>1</sup> (1. 奈良女大理、2. 近畿大理工、3. 京大エネ研)

[2P11] スルホンアミドをプロトンドナーとするフタルイミド類の ESIPT 蛍光特性

\*多月 あおい<sup>1</sup>、伊谷 一将<sup>1</sup>、山路 稔<sup>2</sup>、岡本 秀毅<sup>1</sup> (1. 岡山大院自然科学、2. 群馬大院理工)

[2P12] フェニル基を有するアミノアルコキシジオキサボロランが示す特異な可視光発光

\*高橋 明<sup>1</sup>、ウォン キムジン<sup>1</sup>、橋本 征奈<sup>1,2</sup>、岩倉 いずみ<sup>1</sup>、亀山 敦<sup>1</sup> (1. 神奈川大工、2. 横国大工)

[2P13] 含フッ素ヘキサアリールベンゼン誘導体の合成と発光特性評価

\*王 逸舟<sup>1</sup>、盛田 雅人<sup>1</sup>、山田 重之<sup>1</sup>、今野 勉<sup>1</sup> (1. 京工繊大院工芸)

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[2P14] アミン系電子ドナー部位を有するフッ素化ジフェニルアセチレン誘導体の新規合成と蛍光特性評価

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[2P15] テトラフルオロシクロヘキサジエン骨格を有する新規三環式化合物の蛍光特性評価

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[2P16] ヘキサヒドロメタノベンゾシクロブタンを対称置換したピレン誘導体のキロプティカル特性

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[2P17] Synthesis and circularly polarized luminescence(CPL) study of chiral pyrene dimer

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[2P18] 可視光を用いた安息香酸の光脱炭酸反応

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[2P19]  $\alpha$ -ケトアミド基を有するキヌクリジン誘導体の光反応

\*宮本 理歩<sup>1</sup>、山田 眞二<sup>1</sup> (1. お茶の水女子大)

[2P20] カルボニルアジドとキノンを原料とするキノンイミンの光化学的生成反応と応用

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[2P21] 多環アリール置換ベンズイミダゾリンとベンズイミダゾリウムによる可視光利用還元的有機分子変換

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[2P22] カチオン- $\pi$ 相互作用による  $\alpha,\beta$ -不飽和イミニウム塩の選択的[2+2]光付加環化反応

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[2P23] 鉄触媒を用いた 2-メチルビフェニルの光環化反応

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[2P24] ベンズイミダゾリウムアリールオキシドを光触媒とする協働型光触媒法による炭素ラジカル発生と捕捉

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[2P25] Design and Synthesis of New Two-Photon Responsive Caged Calcium Compound Using Octupolar System

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[2P26] 有機フォトレドックス触媒による一電子酸化を鍵とする o-キノンメチドの[4+2]環化付加反応

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[2P27] アミノメチルアントラセン-クマリン連結分子の光励起状態制御による一重項酸素の補足・放出と光センシング

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[2P28] コロールケイ素錯体酸素架橋二量体の二重蛍光性

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[2P29] フェロセンをリンカーとするペンタセン二量体の合成と分子内一重項分裂発現

\*早坂 稜<sup>1</sup>、酒井 隼人<sup>1</sup>、羽曾部 卓<sup>1</sup> (1. 慶大)

[2P30] ポリインで架橋されたペンタセン二量体における長距離分子内一重項分裂の観測

\*酒井 隼人<sup>1</sup>、婦木 正明<sup>2</sup>、Nikolai TKACHENKO<sup>3</sup>、小堀 康博<sup>2</sup>、羽曾部 卓<sup>1</sup> (1. 慶大理工、2. 神戸大分子フォト、3. タンペレ大)

[2P31] TiO<sub>2</sub>/Zeolite 複合光触媒と硝化細菌の組み合わせによる水中のアンモニア処理

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[2P32] ゲルマニウム-N-混乱ポルフィリン・酸化チタン電極を用いた水の過酸化水素への光酸化反応

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[2P33] 酸素生成用粉末光アノードの光電気化学特性向上に向けた酸化チタン修飾による表面反応場の構築

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[2P34] チアゾール誘導体を導入した発光性ヘテロレプティック型 Cu(I)フェナントロリン錯体光増感剤の可視光吸収

\*竹田 浩之<sup>1,2</sup>、下 真<sup>1</sup>、安原 凱<sup>1</sup>、小堀 健<sup>1</sup>、浅野 素子<sup>1</sup>、天尾 豊<sup>2</sup> (1. 群馬大院理工、2. 大阪市大人工光合成センター)

[2P35] Zn<sub>x</sub>Cd<sub>1-x</sub>Se ナノワイヤー光アノードへの表面修飾による湿式太陽電池の発電特性向上

\*西澤 実花<sup>1</sup>、影島 洋介<sup>1</sup>、手嶋 勝弥<sup>1</sup>、堂免 一成<sup>1</sup>、錦織 広昌<sup>1</sup> (1. 信州大工)

[2P36] 固体型色素増感太陽電池の作製と使用色素の検討

\*栢沼 秀至<sup>1</sup> (1. 東理大)

[2P37] 宇宙利用を見据えたペロブスカイト太陽電池の熱安定性の向上

\*清田 尚希<sup>1</sup>、永田 衛男<sup>1</sup> (1. 東理大工)

[2P38] Pt(II)-Bodipy 連結錯体における最低励起三重項状態の近赤外発光と時間分解 ESR

小堀 健<sup>1</sup>、\*浅野 素子<sup>1</sup>、Yuqi HOU<sup>2</sup>、Jianzhang ZHAO<sup>2</sup> (1. 群馬大、2. 大連理工大)

[2P39] 銀ナノ構造体存在下での三重項-三重項消滅フォトンアップコンバージョンにおける三重項励起子の拡散長

\*嶋 宗一郎<sup>1</sup>、大曲 駿<sup>1</sup>、バッハ マーティン<sup>1</sup> (1. 東工大物質理工)



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[2P40] 有機複合微結晶における光アップコンバージョンの蛍光・遅延蛍光イメージング解析

\*渋谷 大志<sup>1</sup>、三井 正明<sup>1</sup>、新堀 佳紀<sup>1</sup> (1. 立教大)

[2P41] チオラート保護 Ag<sub>25</sub> クラスターの光アップコンバージョン特性に対する異原子ドーピング効果

\*荒居 大和<sup>1</sup>、新堀 佳紀<sup>1</sup>、三井 正明<sup>1</sup> (1. 立教大院理)

[2P42] 溶液中におけるアントラセン三重項融合の温度依存性

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[2P43] チオラート保護 Ag<sub>29</sub> クラスターによる三重項増感と光アップコンバージョン

\*高橋 直也<sup>1</sup>、新堀 佳紀<sup>1</sup>、三井 正明<sup>1</sup> (1. 立教大院理)

[2P44] ルブレナノ粒子におけるシングレットフィッションの磁場効果

\*中村 拓世<sup>1</sup>、矢後 友暁<sup>1</sup>、若狭 雅信<sup>1</sup>、宇治 雅記<sup>2</sup>、佐々木 陽一<sup>2</sup>、楊井 伸浩<sup>2,3</sup> (1. 埼玉大院理工、2. 九大院工、3. JST さきがけ)

[2P45] 9,10-ジフェニルアントラセン単結晶のトリプレットフュージョンの磁場効果

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[2P46] テトラセン分子ワイヤーにおける一重項励起子分裂で生成した多重励起子のスピンドイナミクス

\*婦木 正明<sup>1</sup>、中村 俊太<sup>2</sup>、酒井 隼人<sup>2</sup>、羽曾部 卓<sup>2</sup>、小堀 康博<sup>1</sup> (1. 神戸大分子フォト、2. 慶大理工)

[2P47] 青色発光を示すカドミウムフリー量子ドット InGaP QDs の合成と励起子素過程の研究

\*北島 弘貴<sup>1</sup>、大地<sup>1</sup>、玉井 尚登<sup>1</sup> (1. 関学大)

[2P48] 金および銀クラスターを用いた一重項酸素の発生

\*米村 弘明<sup>1</sup>、吉井 僚祐<sup>1</sup>、村上 大悟<sup>1</sup> (1. 崇城大学)

[2P49] 複数の希土類元素により構成されたフッ化物ナノ結晶の合成と光物性評価

\*川島 祥<sup>1</sup>、谷野 冴<sup>1</sup>、和田 良樹<sup>1</sup>、宮部 豪人<sup>1</sup>、甲谷 繁<sup>1</sup> (1. 兵庫医療大薬)

[2P50] シクロデキストリン共存下における水中のフルオレンの非蛍光性二量体の形成

\*山本 圭吾<sup>1</sup>、一ノ瀬 暢之<sup>1</sup>、平瀬 暁<sup>1</sup>、西井 暉人<sup>1</sup> (1. 京都工芸繊維大)

[2P51] CsPbBr<sub>3</sub> ペロブスカイトナノ結晶におけるハロゲン交換反応のメカニズム解明

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[2P52] 単一ペロブスカイトナノ結晶—有機色素連結系を用いたエネルギー移動の解明

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[2P53] 単一波長可視光照射による蛍光性ジアリールエテンナノ粒子の発光スイッチング

\*武井 佑実<sup>1</sup>、伊都 将司<sup>1</sup>、五月女 光<sup>1</sup>、森本 正和<sup>2</sup>、入江 正浩<sup>2</sup>、宮坂 博<sup>1</sup> (1. 阪大、2. 立教大)

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[2P54] (発表取り下げ)

[2P55] 半導体量子ドット-ポルフィリン誘導体複合系の励起子ダイナミクス

\*仲藪 直樹<sup>1</sup>、江口 大地<sup>1</sup>、玉井 尚登<sup>1</sup> (1. 関学大)

[2P56] 一次元金属周期構造による単一 CdSe/ZnS 量子ドットの発光増強

\*高瀬 宏人<sup>1</sup>、千田 雛子<sup>1</sup>、山内 光陽<sup>1</sup>、田和 圭子<sup>1</sup>、増尾 貞弘<sup>1</sup> (1. 関学大院理工)

[2P57] プラズモン-光学モード相互作用による近接場増強効果

\*宮崎 凜<sup>1</sup>、今枝 佳祐<sup>2</sup>、上野 貢生<sup>2</sup> (1. 北大院総化、2. 北大院理)

[2P58] 多層金ナノ粒子構造を用いたプラズモン-ファブリ・ペローナノ共振器強結合電極における光電気化学特性

\*石原 穂<sup>1</sup>、押切 友也<sup>1</sup>、服部 誉聖夫<sup>1</sup>、石 旭<sup>2</sup>、三澤 弘明<sup>1,3</sup> (1. 北大電子研、2. 北大創成研究機構、3. 国立陽明交通大)

[2P59] Plasmon-enhanced near-fields controlled by the far-field coupling

\*Junfeng YUE<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Sci., Hokkaido Univ.)

[2P60] Spatial-coherence-enhanced hot-electron generation under modal strong coupling conditions

\*Yen-En LIU<sup>1</sup>, Xu SHI<sup>2</sup>, Yocef HATTORI<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Keiji SASAKI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.)

[2P61] Plasmon-induced photochromic reactions under resonance conditions

\*Yinhao XU<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Sci., Hokkaido Univ.)

[2P62] 結合性プラズモニク構造における近接場スペクトル特性

\*武内 浩輝<sup>1</sup>、高橋 彩<sup>2</sup>、今枝 佳祐<sup>3</sup>、上野 貢生<sup>3</sup> (1. 北大院総化、2. 北大理、3. 北大院理)

[2P63] Plasmon-induced optical force with coupled nano-engineered metallic particles

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[2P64] Effect of adhesion layer on hot-electron transfer from gold nanodisks to titanium dioxide under modal strong coupling conditions

\*En CAO<sup>1</sup>, Xu SHI<sup>2</sup>, Yocef HATTORI<sup>1</sup>, Quan SUN<sup>1</sup>, Shuai ZU<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Jiaotong Univ.)

[2P65] Surface-enhanced Raman scattering under plasmon-nanocavity coupling condition

\*Xiaoqian ZANG<sup>1</sup>, Xu SHI<sup>2</sup>, Tomoya OSHIKIRI<sup>1</sup>, Yuji SUNABA<sup>1</sup>, Keiji SASAKI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.)

[2P66] 微小球共振器モードを示すマイクロ粒子への金ナノ粒子の担持

\*古屋 和樹<sup>1</sup>、押切 友也<sup>1</sup>、石 旭<sup>2</sup>、三澤 弘明<sup>1,3</sup> (1. 北大電子研究所、2. 北大創成研究機構、3. 国立陽明交通大)

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[2P67] 粘土を用いた新規フォトン・アップコンバージョン系

\*中臺 優希<sup>1</sup>、上原 真澄<sup>1</sup>、土屋 秀太<sup>1</sup>、生駒 忠昭<sup>1</sup>、由井 樹人<sup>1</sup> (1. 新潟大院自然)

[2P68] フラーレン (C<sub>70</sub>) を増感剤とする三重項対消滅型アップコンバージョン系における表面プラズモン共鳴の影響

\*松井 匠秀<sup>1</sup>、須川 晃資<sup>2</sup>、大月 穰<sup>2</sup>、加藤 隆二<sup>3</sup> (1. 日大院理工、2. 日大理工、3. 日大工)

[2P69] プラズモニック三重項対消滅型アップコンバージョンにおける最適な増感分子の選択

\*須川 晃資<sup>1</sup>、神 翔太<sup>1</sup>、田原 弘宣<sup>2</sup>、大月 穰<sup>1</sup> (1. 日大理工、2. 長崎大院工)

[2P70] UV 硬化性ポリジメチルシロキサンの金属蒸着選択性を用いた Ag パターン形成

\*西村 明梨<sup>1</sup>、辻岡 強<sup>1</sup> (1. 阪教大)

[2P71] ジアリールエテンの Mg 蒸着選択性と酸エッチングに基づくマテリアルパターンニング

\*西村 明梨<sup>1</sup>、辻岡 強<sup>1</sup> (1. 阪教大)

[2P72] 1,2-ビス(2,5-ジメチル-3-チエニル)ペルフルオロシクロペンテンの気相結晶成長に及ぼす基板の影響

\*磯辺 茉実<sup>1</sup>、北川 大地<sup>1</sup>、小島 誠也<sup>1</sup> (1. 阪市大院工)

[2P73] 1-トリナフチルアミン誘導体の二光子吸収特性と縮環の効果

\*尾崎 周平<sup>1,2</sup>、ガルディ ディルク<sup>3</sup>、鎌田 賢司<sup>1,2</sup> (1. 産総研ナノ材料、2. 関学大院理工、3. フリードリッヒ・アレクサンダー大エアランゲン=ニュルンベルグ)

[2P74] 時間分解赤外分光を用いた白金ベイポクロミズム錯体の励起状態構造ダイナミクス

\*江原 巧<sup>1</sup>、田中 孝記<sup>1</sup>、宮田 潔志<sup>1</sup>、齋藤 大将<sup>2</sup>、重田 泰宏<sup>3</sup>、加藤 昌子<sup>4</sup>、恩田 健<sup>1</sup> (1. 九大院理、2. 北大院総化、3. 金沢大ナノマリ、4. 関学大生命環境)

[2P75] 単一細胞内タンパク質定量検出を指向したナノワイヤー蛍光 ELISA 法の開発

\*小島 悠<sup>1</sup>、平井 健二<sup>1</sup>、猪瀬 朋子<sup>2</sup>、雲林院 宏<sup>1,3</sup> (1. 北大電子研、2. 京大高等研究院、3. ルーバン大)

[2P76] ニオビアナノシートをホストとした新規有機/無機複合体の調製

\*大島 百々香<sup>1</sup>、佐野 奎斗<sup>1</sup>、平出 有吾<sup>1</sup>、嶋田 哲也<sup>1</sup>、石田 玉青<sup>1,2</sup>、高木 慎介<sup>1,2</sup> (1. 都立大院都市環境、2. 水素エネルギー社会構築推進研究セ)

[2P77] CsPbBr<sub>3</sub> ペロブスカイト単一ナノ結晶における EL と PL の特性

\*中村 涼太郎<sup>1</sup>、大曲 駿<sup>1</sup>、Martin VACHA<sup>1</sup> (1. 東工大)

[2P78] Zn-Ag-In-Se ナノロッドへの金の光析出によるヘテロ構造粒子の作製と光学特性

\*高森 千鶴<sup>1</sup>、増岡 輝<sup>1</sup>、亀山 達矢<sup>1,2</sup>、桑畑 進<sup>3</sup>、鳥本 司<sup>1</sup> (1. 名大院工、2. JST さきがけ、3. 阪大院工)

[2P79] アルカリ金属塩で剥離されたチタニアナノシートへのカチオン性ポルフィリンの吸着挙動

\*平出 有吾<sup>1</sup>、佐野 奎斗<sup>1</sup>、瀧本 宝生<sup>1</sup>、嶋田 哲也<sup>1</sup>、石田 玉青<sup>1,2</sup>、高木 慎介<sup>1,2</sup> (1. 都立大院都市環境、2. 水素エネルギー社会構築推進研究セ)

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[2P80] タンパク質結晶のナノ細孔をプラットフォームとした機能性分子の集積

\*宇和田 貴之<sup>1</sup>、田主 和花<sup>1</sup>、竹下 遼馬<sup>1</sup>、石川 満<sup>1</sup> (1. 城西大理)

[2P81] シングルサイト Co 固定化 g-C<sub>3</sub>N<sub>4</sub> で被覆した Au ナノロッドによるプラズモニック触媒反応

\*玉木 健二郎<sup>1</sup>、吉井 丈晴<sup>1</sup>、桑原 泰隆<sup>1,2,3</sup>、森 浩亮<sup>1,2</sup>、山下 弘巳<sup>1,2</sup> (1. 阪大院工、2. 京大 ESICB、3. JST さきがけ)

[2P82] ジアリールエテンの Mg 蒸着選択性によって明らかにされた蒸着マスク下への微量分子堆積

\*日下 初花<sup>1</sup>、下津 有未<sup>1</sup>、辻岡 強<sup>1</sup> (1. 阪教大)

[2P83] ジアリールエテンの光応答特性に対する反応点アルキル置換基の効果

\*藤澤 衣里<sup>1</sup>、伴 威風<sup>1</sup>、西村 涼<sup>1</sup>、森本 正和<sup>1</sup>、入江 正浩<sup>1</sup> (1. 立教大理)

[2P84] 9-メチルアントラセン単結晶の協同的光反応過程とフォトメカニカル挙動の定量的評価

\*森本 晃平<sup>1</sup>、北川 大地<sup>1</sup>、Fei TONG<sup>2</sup>、Christopher J. BARDEEN<sup>2</sup>、小島 誠也<sup>1</sup> (1. 阪市大院工、2. カリフォルニア大リバーサイド校化学科)

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### 3 日目 2021 年 9 月 16 日(木) 16:40-18:20

[3P01] クマリン-ウレア化合物の互変異性体蛍光に対する電子求引基 CF<sub>3</sub> の置換位置効果

\*小池 将人<sup>1</sup>、西村 賢宣<sup>1</sup> (1. 筑波大院数理物質)

[3P02] アントラセン-ウレア化合物の互変異性体蛍光における電子求引基効果

\*小山 拓希<sup>1</sup>、西村 賢宣<sup>1</sup> (1. 筑波大院数理物質)

[3P03] The effect of solvent in the process of intramolecular proton transfer of a pyrene-urea compound in the excited state

\*Leyun HUANG<sup>1</sup>, Mayu YOSHIDA<sup>1</sup>, Yoshinobu NISHIMURA<sup>1</sup> (1. Univ. Tsukuba)

[3P04] ジフェニルアントラセン誘導体によるナノカーボン材料光機能性分散剤

\*高橋 和喜<sup>1</sup>、池田 光希<sup>1</sup>、Nergis ARSU<sup>2</sup>、高原 茂<sup>1</sup> (1. 千葉大、2. ユルドゥズ工科大)

[3P05] (発表取り下げ)

[3P06] Ring I および IV に異なる長さの *N*-アルキルアミド基をもつクロフィル誘導体のクロミック特性

\*吉山 拓諒<sup>1</sup>、井上 凌<sup>1</sup>、宮武 智弘<sup>1</sup> (1. 龍谷大先端理工)

[3P07] 神経伝達物質を検出するための蛍光分析試薬の開発

\*鈴木 祥夫<sup>1</sup> (1. 産総研)

[3P08] グルコース連結法の最適化によるリンポルフィリン光増感剤の開発と PDT 活性

\*茶木 優吏<sup>1</sup>、松本 仁<sup>1</sup>、菱川 善隆<sup>2</sup>、今村 直哉<sup>2</sup>、甲斐 健吾<sup>2</sup>、七島 篤志<sup>2</sup> (1. 宮崎大工、2. 宮崎大医)

[3P09] アミノ軸配位子を有する P-ポルフィリン錯体の酵母菌を用いた光線力学活性評価

\*永野 乃暉<sup>1</sup>、茶木 優吏<sup>1</sup>、松本 仁<sup>1</sup>、白上 努<sup>1</sup> (1. 宮崎大工)

[3P10] イミダゾ[1,5-*a*]ピリジン三座配位子-ホウ素錯体の合成および構造と光物性評価

\*田原 晃生<sup>1</sup>、星 恵太<sup>1</sup>、板家 将海<sup>1</sup>、田端 厚之<sup>2</sup>、長宗 秀明<sup>2</sup>、片山 哲郎<sup>3</sup>、古部 昭広<sup>3</sup>、南川 慶二<sup>1</sup>、今田 泰嗣<sup>1</sup>、八木下 史敏<sup>1,3</sup> (1. 徳島大院理工、2. 徳島大生物資源、3. ポスト LED フォトニクス研究所)

[3P11] 光応答性界面活性剤の細胞毒性に関する研究

\*合志 凜太郎<sup>1</sup>、足利 友弥、金 善南<sup>2</sup>、深港 豪<sup>2</sup>、徐 薇<sup>2</sup>、新留 琢郎<sup>2</sup>、栗原 清二<sup>2</sup> (1. 熊本大自然科学教育、2. 熊本大先端科学)

[3P12] 新規中性型プロトン結合スピン転移錯体における熱および光誘起プロトン移動

\*角 幸樹<sup>1</sup>、中西 匠<sup>2</sup>、佐藤 治<sup>2</sup> (1. 九大院理、2. 九大先導研)

[3P13] 光制御可能なアゾベンゼン結晶の発光特性

\*岡治 美穂<sup>1</sup>、山内 光陽、増尾 貞弘<sup>1</sup> (1. 関学大院理工)

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- [3P14] スチルベンを用いた骨格を含む *N*-置換フタライミド誘導体の光異性化とその光学特性  
\*井上 幹基<sup>1</sup>、山吹 一大<sup>1</sup>、鬼村 謙二郎<sup>1</sup> (1. 山口大院創成科学)
- [3P15] ソルバトクロミズム特性を有するキラルフタライミド誘導体の合成及びその光学特性  
\*山本 拓実<sup>1</sup>、山吹 一大<sup>1</sup>、鬼村 謙二郎<sup>1</sup> (1. 山口大院創成科学)
- [3P16] ビナフチル骨格により架橋したビスピレニルスチレンの光反応とコレステリック液晶反射色のマルチカラー制御  
\*伊藤 洸<sup>1</sup>、中川 哲也<sup>1</sup>、生方 俊<sup>1</sup> (1. 横国大院理工)
- [3P17] ビナフチル骨格により架橋したビスピレニルアクリル酸エステルの光反応と液晶配向の光制御への応用  
\*中村 了<sup>1</sup>、中川 哲也<sup>1</sup>、生方 俊<sup>1</sup> (1. 横国大院理工)
- [3P18] スチルベンユニットを有する[2]カテナンの合成と光応答性  
\*片桐 彩華<sup>1</sup>、田中 大地<sup>1</sup>、長谷川 英悦<sup>1</sup>、岩本 啓<sup>1</sup> (1. 新潟大院自然)
- [3P19] 蛍光性ジアリールエテン誘導体の一波長蛍光スイッチング特性：励起条件とホストマトリクス依存性  
\*相川 みちる<sup>1</sup>、船岡 美里<sup>1</sup>、伊都 将司<sup>1</sup>、森本 正和<sup>2</sup>、入江 正浩<sup>2</sup>、宮坂 博<sup>1</sup> (1. 阪大基礎工、2. 立教大理)
- [3P20] 重合した両親媒性ジアリールエテン超分子構造体の温度変化に伴う形態変化  
\*並河 篤<sup>1</sup>、東口 顕士<sup>1</sup>、松田 建児<sup>1</sup> (1. 京大院工)
- [3P21] スピロ構造を有する酸化ジチエニルエテンの逆フォトクロミズム  
\*安井 景樹<sup>1</sup>、中川 哲也<sup>1</sup>、生方 俊<sup>1</sup> (1. 横国大院理工)
- [3P22] 132,173-シクロフェオフォルバイドのジフルオロボロン錯体の合成とその物性  
\*石川 陽紀<sup>1</sup>、木下 雄介<sup>1</sup>、民秋 均<sup>1</sup> (1. 立命館大)
- [3P23] Non-metal photochemical CO<sub>2</sub> reduction to formate with organohydride-recycle strategy  
\*Weibin XIE<sup>1</sup>, Jiasheng XU<sup>1</sup>, Ubaidah Md IDROS, Masahiko HAYASHI<sup>1</sup>, Ryosuke MATSUBARA<sup>1</sup> (1. Fac. of Sci., Kobe Univ.)
- [3P24] Sn-porphyrin/SnO<sub>2</sub>膜による可視光を用いた水の二電子酸化過酸化水素発生  
\*大崎 穰<sup>1</sup>、嶋田 哲也<sup>1</sup>、石田 玉青<sup>1,2</sup>、高木 慎介<sup>1,2</sup>、立花 宏<sup>1</sup>、井上 晴夫<sup>1,2</sup> (1. 都立大院 都市環境、2. 水素エネルギー社会構築推進研究セ)
- [3P25] 欠番
- [3P26] 結合位置の異なる Zn ポルフィリン-Re カルボニル錯体二元系の光化学的 CO<sub>2</sub> 還元反応活性  
\*鈴木 勇斗<sup>1</sup>、倉持 悠輔<sup>1</sup>、佐竹 彰治<sup>1</sup> (1. 東理大院理)
- [3P27] 外部磁場印加による光学不活性なイリジウム錯体からの RGB+Y 磁気円偏光発光(MCPL)特性  
\*北原 真穂<sup>1</sup>、鈴木 聖香<sup>2</sup>、松平 華奈<sup>1</sup>、八木 繁幸<sup>3</sup>、藤木 道也<sup>4</sup>、今井 喜胤<sup>1</sup> (1. 近大院総理工、2. 近大理工、3. 阪府大院工、4. 奈良先端大)

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[3P28] Spatiotemporal photo-triggered sensing of singlet oxygen by rhodamine 6G-anthracene linked molecule

\*Hanjun ZHAO<sup>1</sup>, Yuta TAKANO<sup>1,2</sup>, Devika SASIKUMAR<sup>1,2</sup>, Vasudevan Pillai BIJU<sup>1,2</sup> (1. Grad. Sch. Env. Sci., Hokkaido Univ., 2. Res. Inst. Electr. Sci., Hokkaido Univ.)

[3P29] DNA を鋳型として構築したジフェニルアントラセン集積体における光アップコンバージョン

\*西岡 賢<sup>1</sup>、奥 勘吾<sup>1</sup>、中村 光伸<sup>1</sup>、高田 忠雄<sup>1</sup> (1. 兵庫県立大院工)

[3P30] ジアリールエテン誘導体の開環反応：一光子吸収で遷移する高位励起状態に特異な反応性の解明

\*水田 健仁<sup>1</sup>、長坂 龍洋<sup>1</sup>、五月女 光<sup>1</sup>、宮坂 博<sup>1</sup> (1. 阪大)

[3P31] コヒーレントな核波束運動をともなうヘミインジゴ誘導体の超高速 E $\rightleftharpoons$ Z 異性化反応

\*東 岳斗<sup>1</sup>、木原 優<sup>1</sup>、日名子 一起<sup>1</sup>、長澤 裕<sup>2</sup> (1. 立命館大院生命、2. 立命館大生命)

[3P32] ジアリールエテンナノ粒子のレーザー誘起開環反応増大に対するパルス幅依存性

\*松本 慎太郎<sup>1</sup>、石橋 千英<sup>1</sup>、朝日 剛<sup>1</sup> (1. 愛媛大工)

[3P33] 紅藻 *Neopyropia* から調製したフィコエリスリン多量体のフェムト秒ポンプ・プローブ分光

\*小澄 大輔<sup>1</sup>、廣田 悠真<sup>2</sup>、川上 恵典<sup>3</sup>、永吉 紀美子<sup>4</sup>、黒木 敏成<sup>4</sup>、松田 竜也<sup>5</sup>、瀧尾 進<sup>5</sup>、神谷 信夫<sup>6</sup> (1. 熊本大・産ナノマテ研、2. 熊本大・自然、3. 理研・SPRING-8、4. 第一製網、5. 熊本大・水循環センター、6. 大阪市大・人工光合成センター)

[3P34] システインを導入したバイオハイブリッド光捕集アンテナ LH2 におけるエネルギー移動ダイナミクス

\*山本 哲也<sup>1</sup>、日名子 一起<sup>1</sup>、鬼頭 征也<sup>3</sup>、近藤 政晴<sup>4</sup>、出羽 毅久<sup>4</sup>、長澤 裕<sup>2</sup> (1. 立命館大院生命、2. 立命館大生命、3. 名工大大院生命、4. 名工大生命)

[3P35] 緑色硫黄細菌反応中心の光合成初期過程ダイナミクス：フィロキノンの効果

\*日名子 一起<sup>1</sup>、稲垣 知実<sup>1</sup>、山本 哲也<sup>1</sup>、帆足 征峻<sup>1</sup>、杉原 敬太<sup>1</sup>、浅井 智広<sup>2</sup>、長澤 裕<sup>2</sup> (1. 立命館大院生命、2. 立命館大生命)

[3P36] 光渦レーザー誘起前方転写法による有機色素溶液の微小液滴パターンニング

\*柚山 健一<sup>1</sup>、尾松 孝茂<sup>2,3</sup> (1. 阪市大理、2. 千葉大融合理工、3. 千葉大分子キラリティ)

[3P37] ポリピリジル配位子の  $\pi$  共役長に影響された Mn(I)錯体の電子遷移

\*高瀬 つぎ子<sup>1</sup>、菅野 貴敏<sup>1</sup>、長南 光紀<sup>1</sup>、大山 大<sup>1</sup> (1. 福島大)

[3P38] 蛍光の異方的輻射による高分子構造体の指向的マイクロ運動

\*南野 貴行<sup>1</sup>、梶 貴博<sup>2</sup>、飯田 琢也<sup>3</sup>、田村 守<sup>1</sup>、伊都 将司<sup>1</sup>、宮坂 博<sup>1</sup> (1. 阪大、2. 情報通信研究機構、3. 阪府大)

[3P39] フェムト秒誘導ラマン分光によるシクロパラフェニレンの励起状態における構造変形ダイナミクスの解明

\*森田 悠介<sup>1</sup>、五月女 光<sup>1</sup>、宮坂 博<sup>1</sup> (1. 阪大基礎工)



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[3P40] アントラセンとペリレンの融液状態の吸収スペクトル

\*久保田 治芳<sup>1</sup>、加藤 隆二<sup>1</sup> (1. 日大)

[3P41] 可視 5 -fs パルス光の安定化と分子振動実時間分光

\*岩倉 いずみ<sup>1</sup>、岡村 幸太郎<sup>1</sup>、橋本 征奈<sup>2</sup>、藪下 篤史<sup>1</sup> (1. 神奈川大工、2. 学振(横国大院工))

[3P42] HJ 凝集性ポリチオフェン薄膜の一重項励起子拡散ダイナミクス

\*竹山 太貴<sup>1</sup>、村田 恭大<sup>1</sup>、玉井 康成<sup>1,2</sup>、大北 英生<sup>1</sup> (1. 京大、2. JST さきがけ)

[3P43] 電子供与性置換基を導入したアセトアセチルクマリン類の光物理特性

\*角田 美菜<sup>1</sup>、野口 愛未<sup>2</sup>、飛田 成史<sup>1</sup>、吉原 利忠<sup>1</sup> (1. 群馬大院理工、2. 群馬大理工)

[3P44] 5-フルオロ-4-チオウリジンの励起状態及び光増感反応

\*山田 圭乃<sup>1</sup>、柏原 航<sup>1</sup>、鈴木 正<sup>1</sup> (1. 青学大院理工)

[3P45] 時間分解 EPR によるビフェニル連結テトラセンダイマーの分子内励起子分裂機構の解明

\*大西 翔<sup>1</sup>、中村 俊太<sup>2</sup>、羽曾部 卓<sup>2</sup>、小堀 康博<sup>3</sup> (1. 神戸大理、2. 慶大理工、3. 神戸大分子フォトサイエンスセンター)

[3P46] ベンゾ[b]ホスホリウム塩の励起状態ダイナミクスに対するカチオンの分子構造と対アニオンの効果

\*藤井 香里<sup>1</sup>、工藤 裕太<sup>2</sup>、村山 仁愛<sup>2</sup>、松本 篤郎<sup>1</sup>、俣野 善博<sup>2</sup>、木村 佳文<sup>1,3</sup> (1. 同志社大理工、2. 新潟大院自然、3. 同志社大院理工)

[3P47] 電子供与性溶媒中のフラーレン誘導体[60]PCBM の励起状態ダイナミクス

\*辻井 遥<sup>1</sup>、政岡 有人<sup>1</sup>、日名子 一起<sup>1</sup>、木原 優<sup>1</sup>、長澤 裕<sup>1</sup> (1. 立命館大生命)

[3P48] 配位子保護 Au<sub>2</sub>Cu<sub>6</sub> クラスターの凝集誘起発光

\*有馬 大地<sup>1</sup>、新堀 佳紀<sup>1</sup>、三井 正明<sup>1</sup> (1. 立教大理)

[3P49] 多重励起を利用した CdTe 量子ドットの光イオン化ダイナミクスの解明

\*井出 直樹<sup>1</sup>、古賀 雅史<sup>2</sup>、三宅 友斗<sup>1</sup>、五月女 光<sup>1</sup>、宮坂 博<sup>1</sup> (1. 阪大、2. カリフォルニア大バークレー校)

[3P50] ベンゾポルフィリン-ジケトピロロピロールをドナーとするバルクヘテロ接合界面の電荷移動と電荷解離:時間分解 EPR による解析

\*長友 敬晃<sup>1</sup>、婦木 正明<sup>1,2</sup>、増尾 貞弘<sup>3</sup>、山田 容子<sup>4</sup>、小堀 康博<sup>1,2</sup> (1. 神戸大院理、2. 神戸大分子フォト、3. 関学大生命環境、4. 奈良先端大先端)

[3P51] ペリレン薄膜中におけるエキシマー形成ダイナミクスのフェムト秒アップコンバージョン測定

\*今村 虹輝<sup>1</sup>、岩村 宗高<sup>1</sup>、野崎 浩一<sup>1</sup> (1. 富山大院理工)

[3P52] 時間分解 EPR 法による熱活性化遅延蛍光分子の励起状態の解析

\*勝平 譲治<sup>1</sup>、日下部 悠<sup>2</sup>、和田 啓幹<sup>2</sup>、菅野 奈都子<sup>2</sup>、Ren YONGXIA<sup>2</sup>、梶 弘典<sup>2</sup>、小堀 康博<sup>1,3</sup> (1. 神戸大院理、2. 京大化研、3. 神戸大分子フォト)

[3P53] 凝集誘起発光を示すシロールの単結晶における蛍光ダイナミクス

\*西浦 有輝<sup>1</sup>、石橋 千英<sup>1</sup>、朝日 剛<sup>1</sup> (1. 愛媛大院理工)

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[3P54] 時間分解分光法による 9-アリールカルバゾールの電荷移動状態に及ぼす溶媒効果  
\*高本 和也<sup>1</sup>、植野 嘉文<sup>1</sup>、太田 薫<sup>1,2</sup>、林 倫年<sup>3</sup>、秋本 誠志<sup>1</sup>、松原 亮介<sup>1</sup>、富永 圭介<sup>1,2</sup> (1. 神戸大院理、2. 神戸大分子フォト、3. 台湾大凝態科学研究中心)

[3P55] フェムト秒顕微過渡吸収分光法による  $\text{CH}_3\text{NH}_3\text{PbBr}_3$  単一微結晶における光学発振挙動の偏光励起依存性  
\*藤田 優真<sup>1</sup>、赤木 裕一郎<sup>1</sup>、片山 哲郎<sup>1</sup>、古部 昭広<sup>1</sup> (1. 徳島大)

[3P56] 銅フタロシアニンナノロッド薄膜のフェムト秒顕微過渡吸収分光  
\*田中 亮祐<sup>1</sup>、石橋 千英<sup>1</sup>、朝日 剛<sup>1</sup> (1. 愛媛大院理工)

[3P57] スペクトル整形パルス光による光反応の選択誘起  
\*橋本 征奈<sup>1,2</sup>、藪下 篤史<sup>3</sup>、岩倉 いずみ<sup>3</sup> (1. 学振、2. 横国大院工、3. 神奈川大工)

[3P58] イオン液体のアルキル側鎖長に依存した一重項酸素の緩和過程  
宇留島 由衣<sup>1</sup>、小川 瑛麗奈<sup>1</sup>、宇佐美 恭兵<sup>1</sup>、\*河合 明雄<sup>1</sup> (1. 神奈川大理)

[3P59] 逆フォトクロミズムを示すビナフチル架橋型イミダゾール二量体の熱戻り反応の高速化  
\*松浦 佳樹<sup>1</sup>、武藤 克也<sup>1</sup>、阿部 二郎<sup>1</sup> (1. 青学大理工)

[3P60] ペリレンビスイミド連結ジアリールエテンの可視光閉環反応の長波長化  
\*碓子 竜成<sup>1</sup>、金 善南<sup>1</sup>、栗原 清二<sup>1</sup>、深港 豪<sup>1</sup> (1. 熊本大)

[3P61]  $\pi$  共役を拡張した可視光応答型ジアリールエテンの合成  
\*吉川 篤宏<sup>1</sup>、伴 威風<sup>1</sup>、西村 涼<sup>1</sup>、森本 正和<sup>1</sup>、入江 正浩<sup>1</sup> (1. 立教大理)

[3P62] チタンニオブ酸複合体の作製と光誘起層間伸縮動  
\*中村 風太<sup>1</sup>、白上 努<sup>1</sup>、鍋谷 悠<sup>1</sup> (1. 宮崎大)

[3P63] T-type Photochromism of ZnO Nanocrystals  
\*Hiroki ITO<sup>1</sup>, Yoichi KOBAYASHI<sup>1</sup> (1. Fac. of Life Sci., Ritsumeikan Univ.)

[3P64] 単一成分で黒く着色するジアリールエテン誘導体の合成  
\*坂西 麻未<sup>1</sup>、佐藤 文紀<sup>2</sup>、太田 最実<sup>2</sup>、鍋谷 俊太<sup>2</sup>、上久保 真紀<sup>2</sup>、前橋 亮太<sup>2</sup>、小原 朋也<sup>2</sup>、金 善南<sup>1</sup>、栗原 清二<sup>1</sup>、深港 豪<sup>1</sup> (1. 熊大院自然、2. 日産自動車)

高い光反応性と高速熱退色性を兼ね備えたジアリールベンゼンの合成  
\*前川 陸人<sup>1</sup>、濱谷 将太<sup>1</sup>、北川 大地<sup>1</sup>、小畠 誠也<sup>1</sup> (1. 阪市大)

[3P66] 飛石型共役系ポリマー(169)電子移動の方向を制御した A,B-ブロック型高分子ワイヤーの合成  
\*田中 康太<sup>1</sup>、郭 昊軒<sup>1</sup>、青田 浩幸<sup>1</sup> (1. 関大化学生命工)

[3P67] 飛石型共役系ポリマー(170) 両末端に電子ドナー・アクセプターを導入した高分子ワイヤーの光誘起電子移動評価  
\*北山 大介<sup>1</sup>、郭 昊軒<sup>1</sup>、青田 浩幸<sup>1</sup> (1. 関大化学生命工)

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[3P68] 飛石型共役系ポリマー(171) 末端にドナー・アクセプターを導入したポリマーの光誘起電子移動評価

\*田中 麻稀<sup>1</sup>、郭 昊軒<sup>1</sup>、青田 浩幸<sup>1</sup> (1. 関大化学生命工)

[3P69] 飛石型共役系ポリマー(172)エネルギーレベルの差を利用した両親媒性高分子ワイヤーの合成と光誘起電子移動評価

\*布野 充祐<sup>1</sup>、郭 昊軒<sup>1</sup>、青田 浩幸<sup>1</sup> (1. 関大化学生命工)

[3P70] 飛石型共役系ポリマー(173) A,B ブロック型両親媒性高分子ワイヤーの合成と光学的挙動

\*宇田 有佑<sup>1</sup>、郭 昊軒<sup>1</sup>、青田 浩幸<sup>1</sup> (1. 関大化学生命工)

[3P71] 飛石型共役系ポリマー(174) 2つのアプローチによる金電極と を導入した高分子ワイヤーの結合および評価

\*柳井 拓夢<sup>1</sup>、郭 昊軒<sup>1</sup>、青田 浩幸<sup>1</sup> (1. 関大化学生命工)

[3P72] 飛石型共役系ポリマー(175)Fc を導入した高分子ワイヤーの金電極上からの合成

\*竹村 ゆり子<sup>1</sup>、郭 昊軒<sup>1</sup>、青田 浩幸<sup>1</sup> (1. 関大化学生命工)

[3P73] BiVO<sub>4</sub>-TiO<sub>2</sub> 複合型光触媒における OH ラジカル生成

\*寺尾 紫都<sup>1</sup>、村上 能規<sup>1</sup> (1. 長岡高専)

[3P74] 析出還元法及び光析出法を用いて合成した Pt/TNS の H<sup>+</sup>光還元能の比較

\*瀧本 宝生<sup>1</sup>、平出 有吾<sup>1</sup>、嶋田 哲也<sup>1</sup>、石田 玉青<sup>1,2</sup>、高木 慎介<sup>1,2</sup> (1. 都立大院都市環境、2. 水素エネルギー社会構築推進研究セ)

[3P75] チタン/スズ複合金属酸化物ナノ粒子の合成と物性評価

\*佐野 奎斗<sup>1</sup>、石田 玉青<sup>1</sup>、嶋田 哲也<sup>1</sup>、立花 宏<sup>1</sup>、大谷 文章<sup>2</sup>、高木 慎介<sup>1</sup>、井上 晴夫<sup>1</sup> (1. 都立大院都市環境、2. 北大触媒研)

[3P76] H<sub>2</sub>O<sub>2</sub> 生成における MOF 光触媒の金属酸化物クラスター種の効果

\*日野 剣太<sup>1</sup>、近藤 吉史<sup>1</sup>、桑原 泰隆<sup>1,2,3</sup>、森 浩亮<sup>1,2</sup>、山下 弘巳<sup>1,2</sup> (1. 阪大院工、2. 京大 ESICB、3. JST さきがけ)

[3P77] Hydrogen production system using household wastewater as main material of photocatalyst and sacrificial agent

\*Jovandi DEWANTARA<sup>1</sup>, Haruki NAGAKAWA<sup>1</sup>, Morio NAGATA<sup>1</sup> (1. Grad. Sch. of Eng., Tokyo Univ. of Sci.)

[3P78] アゾベンゼン系分子ガラスの球状粒子作製とフォトメカニカル挙動

\*濁川 創<sup>1</sup>、松原 情菜<sup>1</sup>、中野 英之<sup>1</sup> (1. 室蘭工大)

[3P79] Measurements of photovoltaic properties of solar cell sensitized with c-phycoerythrin protein complex

\*Koji TAMURA<sup>1</sup>, Motoyasu ADACHI<sup>2</sup>, Rumi SHIMIZU<sup>2</sup>, Tomitugu TAGUCHI<sup>1</sup>, Hironori OHBA<sup>1</sup> (1. QST, 2. QST)

[3P80] 固体表面におけるビピリジニウム誘導体の特異な吸収・発光挙動

\*樋田 熙<sup>1</sup>、井越 翔太<sup>1</sup>、由井 樹人<sup>1</sup> (1. 新潟大自)

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[3P81] Study of optical and photophysical properties of mixed cation (FA/MA) lead halide perovskites on the microscopic level

\*Anubha AGARWAL<sup>1</sup>, Ryotaro NAKAMURA<sup>1</sup>, Shun OMAGARI<sup>1</sup>, Martin VACHA<sup>1</sup> (1. Tokyo Inst. Tech.)

[3P82] 四面体型テトラスルホン酸と重ハロゲン置換トリフェニルメチルアミンによる重原子空間を持つ多孔質有機塩の構築と内包発光分子のりん光誘起

\*施 宏居<sup>1</sup>、藤内 謙光<sup>1</sup> (1. 阪大院工)

[3P83] トリアジン基を有する発光性白金錯体の合成と物性

大塚 悠斗<sup>1</sup>、\*橋本 雅司<sup>1</sup>、今野 英雄<sup>2</sup> (1. 城西大理、2. 産総研)

[3P84] 4-アントリルフタルイミド誘導体の合成と Diels-Alder 反応を利用したメカノクロミズム

横山 剛巳<sup>1</sup>、山吹 一大<sup>1</sup>、鬼村 謙二郎<sup>1</sup> (1. 山口大院創成科学)

[3P85] Transient-excited States of Visible-light-responsive Photocatalyst  $\text{CuLi}_{1/3}\text{Ti}_{2/3}\text{O}_2$  Investigated by Picosecond Time-resolved XAFS

\*Dongxiao FAN<sup>1</sup>, Shunsuke NOZAWA<sup>1</sup>, Kenta WATANABE<sup>2</sup>, Akihiko KUDO<sup>2</sup> (1. Inst. of Materials Structure Sci., KEK, 2. Fac. of Sci., Tokyo Univ. of Sci.)

# Annual Meeting on Photochemistry 2021

Date September 14 (Tue) - 16 (Thu), 2021

Organized by The Japanese Photochemistry Association  
Co-Organized The Chemical Society of Japan  
Photochemistry Division, The Chemical Society of Japan,

Website <https://photochemistry.jp/2021/>

## [Plenary Lectures]

Zoom A : September 14 (Tue) 9:00-9:35 JPA Special Lectureship Award 2021  
Zoom A : September 16 (Thu) 9:00-9:35 JPA Special Lectureship Award 2021

## [Award Lectures]

Zoom A : September 14 (Tue) 13:00-13:25 JPA Award 2020 Award Lecture  
Zoom A : September 15 (Wed) 9:00-9:35 Honda-Fujishima Lectureship Award 2021  
Zoom A : September 15 (Wed) 9:40-10:15 Honda-Fujishima Lectureship Award 2020

Zoom A : September 15 (Wed) 10:20-10:45 Kataoka Lectureship Award for Asian and Oceanian Photochemist  
Zoom A : September 15 (Wed) 10:50-11:15 Lectureship Award for Asian and Oceanian

Zoom A : September 15 (Wed) 16:10-16:45 Elsevier Lectureship Award 2021  
Zoom A : September 15 (Wed) 16:50-17:25 Elsevier Lectureship Award 2020  
Zoom A : September 16 (Thu) 13:00-13:25 JPA Award 2020 Award Lecture  
Zoom C : September 14 (Tue) 16:30-16:50 JPA Award for Young Scientist 2020 Award Lecture  
Zoom C : September 16 (Thu) 10:20-10:40 JPA Award for Young Scientist 2020 Award Lecture

## [Symposium: Dynamic Exciton]

Zoom A : September 14 (Tue) 9:40-15:50

## [Luncheon Seminar on Young Researchers]

Zoom A : September 16 (Thu) 12:00-12:40

## [Oral Sessions]

Zoom will be used for presentation.  
Zoom A, Zoom B, Zoom C, Zoom D

## [Poster Sessions]

Remo System will be used for presentation.

## [JPA General Meeting]

Zoom : September 15 (Wed) 14:30-16:00

## [Banquet]

Remo System : September 15 (Wed) 17:40-19:40

**[Exhibition]**

Remo System : September 14(Tue) -16(Thur)

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| Tue. Sep. 14, 2021 |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | Room A / Zoom                                                                                                                                                                                                                    | Room B / Zoom                                                                                                                                                                                                                                                                                                            |
| 8 : 30             | Open / Rehearsal                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                          |
| Chair              | Tsukasa TORIMOTO (Nagoya Univ.)                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |
| 9 : 00             | <b>JPA Special Lectureship Award 2021</b><br>[PL01] (9:00~9:35)<br>“New strategies for Photoalignment and Surface Morphing in Photoresponsive Liquid Crystalline Polymer Films”<br>*Takahiro SEKI <sup>1</sup> (1. Nagoya Univ.) |                                                                                                                                                                                                                                                                                                                          |
| 9 : 35             |                                                                                                                                                                                                                                  | Open / Rehearsal (9:20~)                                                                                                                                                                                                                                                                                                 |
|                    | Symposium: Dynamic Exciton                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                          |
| Chair              | Yutaka IE (Osaka Univ.)                                                                                                                                                                                                          | Hiro MINAMIMOTO (Hokkaido Univ.)                                                                                                                                                                                                                                                                                         |
| 9 : 40             | [1S01] Development of Highly Efficient TADF Material and its OLED Application *Hironori KAJI <sup>1</sup> (1. Kyoto Univ.)                                                                                                       | [1B01] Highly Sensitive Fluorescence Detection by Photochemical Reaction Promoted on a Plasmonic Chip *Koji MIZUTANI <sup>1</sup> , Hirobumi SUNAYAMA <sup>2</sup> , Toshifumi TAKEUCHI <sup>2</sup> , Keiko TAWA <sup>1</sup> (1. Grad. Sch. of Sci. and Tec., Kwansei Gakuin Univ., 2. Grad. Sch. of Eng., Kobe Univ.) |
| 10 : 00            | [1S02] Molecular Design and Photophysics in a Sequential Process of Two-Photon Absorption and Triplet-Triplet Annihilation *Akinori SAEKI <sup>1</sup> (1. GSE, Osaka Univ.)                                                     | [1B02] Properties required for light that induces protein crystallization by surface plasmon resonance<br>*Tetsuo OKUTSU <sup>1</sup> , Tomohiko SATO <sup>1</sup> , Hiroaki HORIUCHI <sup>1</sup> (1. Gunma Univ.)                                                                                                      |
| 10 : 20            | [1S03] Synthesis and photophysical properties of platinum (II) complexes having donor-acceptor moieties *Eri SAKUDA <sup>1</sup> (1. Nagasaki Univ.)                                                                             | [1B03] Enantioselective Photocatalytic Reactions by Coupling between CoPt and Au Nanoparticles *Takuya ISHIDA <sup>1</sup> , Yukika AOKI <sup>1</sup> , Tetsu TATSUMA <sup>1</sup> (1. IIS, Univ. Tokyo)                                                                                                                 |
| 10 : 40            | Break / Rehearsal                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                          |
| Chair              | Hiroko YAMADA (NAIST)                                                                                                                                                                                                            | Sadahiro MASUO (Kwansei Gakuin Univ.)                                                                                                                                                                                                                                                                                    |
| 10 : 50            | [1S04] Analysis of molecular orientation of organic semiconducting materials using solid state NMR<br>*Katsuaki SUZUKI <sup>1</sup> , Hironori KAJI <sup>1</sup> (1. Kyoto Univ.)                                                | [1B04] Hydrogen evolution using visible-light responsive photocathode under modal coupling condition<br>*Tomoya OSHIKIRI <sup>1</sup> , Xu SHI <sup>2</sup> , Hiroaki MISAWA <sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. Natl. Yang Ming Chiao Tung Univ.)                                       |



**Tue. Sep. 14, 2021**

| <b>Room C / Zoom</b>                                                                                                                                                                                                                                                                                                      | <b>Room D / Zoom</b>                                                                                                                                                                                                                                                                                                                                                     |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                          | 8 : 30  |
|                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                          | 9 : 20  |
| Open / Rehearsal (9:20~)                                                                                                                                                                                                                                                                                                  | Open / Rehearsal (9:20~)                                                                                                                                                                                                                                                                                                                                                 |         |
| Hajime SHIGEMITSU (Osaka Univ.)                                                                                                                                                                                                                                                                                           | Yusuke TAMAKI (Tokyo Inst. Tech.)                                                                                                                                                                                                                                                                                                                                        | Chair   |
| [1C01★] Photoinduced Unfolding of Coiled Supramolecular Polymers Followed by Interchain Aggregation<br>*Kenta TAMAKI <sup>1</sup> , Shiki YAGAI <sup>2</sup> (1. Grad. Sch. of Eng. and Sci., Chiba Univ., 2. IGPR, Chiba Univ.)                                                                                          | [1D01★] Photocatalytic CO <sub>2</sub> Reduction by Novel Iron Complexes Stabilized by PNNP-type Tetradentate Ligands<br>*Taku WAKABAYASHI <sup>1</sup> , Kenji KAMADA <sup>1</sup> , Jieun JUNG <sup>1</sup> , Susumu SAITO <sup>1,2</sup> (1. Grad. Sch. Sci., Nagoya Univ., 2. RCMS, Nagoya Univ.)                                                                    | 9 : 40  |
| [1C02] Chiral co-assembling system with both strong emission and large circularly polarized luminescence properties<br>*Naoya RYU <sup>1</sup> , Shoji NAGAOKA <sup>1</sup> , Makoto TAKAFUJI <sup>2</sup> , Hirotaka IHARA <sup>2</sup> (1. Kumamoto Ind. Res. Inst., 2. Dept. Appl. Chem. and Biochem., Kumamoto Univ.) | [1D02] Modification of a PNNP-type Ir complex to possess long-lived excited states for efficient photocatalytic CO <sub>2</sub> reduction<br>*Jieun JUNG <sup>1</sup> , Seonghee BAE <sup>1</sup> , Sujit P. CHAVAN <sup>2</sup> , Susumu SAITO <sup>1,2</sup> (1. Grad. Sch. of Sci., Nagoya Univ., 2. RCMS, Nagoya Univ.)                                              | 10 : 00 |
| [1C03] Control of Highly Arranged Perovskite Nanocrystals Based on Self-Assembly of a Perylene Bisimide Derivative<br>*Naoki KUBO <sup>1</sup> , Mitsuki YAMAUCHI <sup>1</sup> , Sadahiro MASUO <sup>1</sup> (1. Grad. Sch. of Sci. and Technol., Kwansei Gakuin Univ.)                                                   | [1D03] Biphasic photocatalytic system driven by photoinduced electron transfer-coupled phase migration of a ferrocene electron mediator<br>*Akinobu NAKADA <sup>1,2</sup> , Ren ITAGAKI <sup>1</sup> , Shin-ya TAKIZAWA <sup>3</sup> , Ho-Chol CHANG <sup>1</sup> (1. Fac. of Sci. and Eng., Chuo Univ., 2. PRESTO/JST, 3. Grad. Sch. of Arts and Sci., The Univ. Tokyo) | 10 : 20 |
| Break / Rehearsal                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                          | 10 : 40 |
| Shiki YAGAI (Chiba Univ.)                                                                                                                                                                                                                                                                                                 | Hiroyuki TAKEDA (Gunma Univ.)                                                                                                                                                                                                                                                                                                                                            | Chair   |
| [1C04] Aggregation-induced photocatalytic activity of a cyanine dye and its application to oxidation reactions in water<br>*Hajime SHIGEMITSU <sup>1</sup> , Tomoe TAMEMOTO <sup>1</sup> , Toshiyuki KIDA <sup>1</sup> (1. Dept. of Applied Chemistry, Grad. Sch. of Eng., Osaka University)                              | [1D04★] Highly efficiency of hydrogen sulfide decomposition with TiO <sub>2</sub> (B) composite photocatalyst and the effect of sulfur species for photocatalytic activity<br>*Yukino UESUGI <sup>1</sup> , Morio NAGATA <sup>1</sup> (1. Fac. of Eng., Tokyo Univ. of Sci.)                                                                                             | 10 : 50 |

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| 11 : 10 | [1S05] Theoretical analysis of donor-acceptor-linked molecules<br>*Masahiro HIGASHI <sup>1,2</sup> (1. Grad. Schl of Eng., Kyoto Univ., 2. JST PRESTO)                                                                                                                                      | [1B05] Development of the effective electron injection system using modal coupling into Ga <sub>2</sub> O <sub>3</sub> conduction band with the large negative potential<br>*Yaguang WANG <sup>1</sup> , Xu SHI <sup>2</sup> , Tomoya OSHIKIRI <sup>1</sup> , Hiroaki MISAWA <sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. Creative Research Inst., Hokkaido Univ., 3. Natl. Yang Ming Chiao Tung Univ.) |
| 11 : 30 | [1S06] Time resolved EPR study on ultimate triplet-triplet dissociation via activated correlated multiexciton during the singlet fission in thin films<br>Saki MATSUDA <sup>1</sup> , *Yasuhiro KOBORI <sup>2,1</sup> (1. Grad. Sc. Sci. Kobe Univ., 2. Mol. Photo. Res. Cent., Kobe Univ.) | [1B06] Investigation of Polariton Property of Strong Coupling System between Molecular Excitons and Surface Lattice Resonances via Angle-resolved Optical Measurement<br>*Takahiro HAYASHI <sup>1</sup> , Shunpei OIKAWA, Hiro MINAMIMOTO <sup>2</sup> , Kei MURAKOSHI <sup>2</sup> (1. Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Sci., Hokkaido Univ.)                            |
| 11 : 50 | Lunchbreak                                                                                                                                                                                                                                                                                  | Introduction of Company Exhibition Tables<br>Spectra-Physics K. K.                                                                                                                                                                                                                                                                                                                                     |
| 12 : 10 |                                                                                                                                                                                                                                                                                             | Introduction of Company Exhibition Tables<br>UNISOKU Co., Ltd.                                                                                                                                                                                                                                                                                                                                         |
| 12 : 30 |                                                                                                                                                                                                                                                                                             | Lunchbreak                                                                                                                                                                                                                                                                                                                                                                                             |
| Chair   |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                        |
| 13 : 00 | <b>JPA Award 2020 Award Lecture</b><br>[AL01] (13:00~13:25)<br>“Rational Design of Environmentally Sensitive Fluorescence Dyes for Advanced Organic Light-emitting Materials”<br>*Gen-ichi KONISHI <sup>1</sup> (1. Tokyo Inst. Tech.)                                                      | Open / Rehearsal (13:20~)                                                                                                                                                                                                                                                                                                                                                                              |
| Chair   | Yasuhiro KOBORI (Kobe Univ.)                                                                                                                                                                                                                                                                | Kazuhiko SEKI (AIST)                                                                                                                                                                                                                                                                                                                                                                                   |
| 13 : 40 | [1S07] Development of new $\pi$ -conjugated systems for application to nonfullerene acceptors<br>*Yutaka IE <sup>1</sup> (1. Osaka Univ.)                                                                                                                                                   | [1B07] Carrier Transport in Organic Thin Film Solar Cells Studied by Simultaneous Measurement of Transient Absorption and Photocurrent<br>*Naoya MURAMATSU <sup>1</sup> , Tomoaki MIURA <sup>1</sup> , Tadaaki IKOMA <sup>1</sup> (1. Grad. School. of Sci. and Tec., Niigata Univ.)                                                                                                                   |
| 14 : 00 | [1S08] Catalytic allylation of aldehyde using feedstock alkenes<br>*Harunobu MITSUNUMA <sup>1</sup> , Shun TANABE <sup>1</sup> , Motomu KANAI <sup>1</sup> (1. The Univ. of Tokyo)                                                                                                          | [1B08] Cascaded energy landscape as a key driver for slow yet efficient charge separation with small energy offset in organic solar cells<br>*Yasunari TAMAI <sup>1,2</sup> , Shin-ichiro NATSUDA <sup>1</sup> , Toshiharu SAITO <sup>1</sup> , Rei SHIROUCHI <sup>1</sup> , Yuji SAKAMOTO <sup>1</sup> , Hideo OHKITA <sup>1</sup> (1. Kyoto Univ., 2. JST PRESTO)                                    |
| 14 : 20 | [1S09] Development of Low-Molecular-Weight Organic Semiconductors Using Precursor Approach<br>*Hiroko YAMADA <sup>1</sup> (1. Grad. Sch. Sci. Tech., NAIST)                                                                                                                                 | [1B09] Observation of Nanostructured Electrode Interface during Hydrogen Evolution Reactions via In-situ Electrochemical Spectroscopy Method<br>*Hiro MINAMIMOTO <sup>1</sup> , Nobuaki OYAMADA <sup>1</sup> , Kei MURAKOSHI <sup>1</sup> (1. Hokkaido Univ.)                                                                                                                                          |

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| [1C05] Supramolecular Photochirogenesis of 2-Anthracenecarboxylate in Silica Nano Ribbon Template<br>Wijak YOSPANYA <sup>1,3</sup> , Masaki NISHIJIMA <sup>1</sup> , Yasuyuki ARAKI <sup>1</sup> , Tadashi MORI <sup>2</sup> , Emilie POUGET <sup>3</sup> , Reiko ODA <sup>3</sup> , *Takehiko WADA <sup>1</sup> (1. IMRAM, Tohoku Univ., 2. Fac. of Eng., Osaka Univ., 3. Univ. of Bordeaux) | [1D05★] Current density estimation of photo electrode by utilizing feature values derived from various types of analytical data<br>*Yuya NAGAI <sup>1</sup> , Kenji KATAYAMA <sup>1</sup> (1. Chuo Univ.)                                                                                                                                                                                                                                                                   | 11 : 10 |
| [1C06] Solid-State Room-Temperature Photoluminescence of a Stable Organic Radical<br>*Ryota MATSUOKA <sup>1</sup> , Shojiro KIMURA <sup>2</sup> , Tetsuro KUSAMOTO <sup>1</sup> (1. LCCMS, IMS, 2. IMR, Tohoku Univ.)                                                                                                                                                                         | [1D06★] Effect of Defect Sites on Photocatalysis of Reduced Titanium Dioxide Prepared Using Hydrogen Spillover<br>*Yukari YAMAZAKI <sup>1</sup> , Kohsuke MORI <sup>1,2</sup> , Yasutaka KUWAHARA <sup>1,2,3</sup> , Hiromi YAMASHITA <sup>1,2</sup> (1. Grad. Eng., Osaka Univ., 2. ESICB, Kyoto Univ., 3. JST-PRESTO)                                                                                                                                                     | 11 : 30 |
| Introduction of Company Exhibition Tables<br>Japan Laser Corp.                                                                                                                                                                                                                                                                                                                                | Introduction of Company Exhibition Tables<br>HORIBA, Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 : 50 |
| Lunchbreak/Rehearsal                                                                                                                                                                                                                                                                                                                                                                          | Lunchbreak/Rehearsal                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12 : 10 |
|                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12 : 30 |
| Open / Rehearsal (13:20~)                                                                                                                                                                                                                                                                                                                                                                     | Open / Rehearsal (13:20~)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 13 : 20 |
| Hideki OKAMOTO (Okayama Univ.)                                                                                                                                                                                                                                                                                                                                                                | Fuyuki ITO (Shinshu Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chair   |
| [1C07] Suppression Mechanisms of singlet oxygen generation of endogenous photosensitizers<br>*Azusa KIKUCHI <sup>1</sup> , Kouna MATSUBARA <sup>1</sup> , Takumi HAYASHI <sup>1</sup> , Keito MOKUSHI <sup>1</sup> , Mikio YAGI <sup>1</sup> (1. Yokohama Natl. Univ.)                                                                                                                        | [1D07] Charge Carrier Mapping for Z-scheme Photocatalytic Water-Splitting Sheet via Categorization of Microscopic Time-resolved Image Sequences<br>Mikoto EBIHARA <sup>1</sup> , Takeshi IKEDA <sup>2,3</sup> , Sayuri OKUNAKA <sup>2,3</sup> , Hiromasa TOKUDOME <sup>2,3</sup> , Kazunari DOMEN <sup>4,5</sup> , * Kenji KATAYAMA <sup>1</sup> (1. Chuo Univ., 2. TOTO, 3. ARPCHEM, 4. Shinshu Univ., 5. The Univ. of Tokyo)                                              | 13 : 40 |
| [1C08★] Development of efficient light harvesting antenna by densely organizing fluorophores into DNA junction<br>*Hidenori AZUMA <sup>1</sup> , Hiromu KASHIDA <sup>1</sup> , Yasuyuki ARAKI <sup>2</sup> , Takehiko WADA <sup>2</sup> , Hiroyuki ASANUMA (1. Grad. Sch. of Eng., Nagoya Univ., 2. IMRAM, Tohoku Univ.)                                                                      | [1D08] Development of CO <sub>2</sub> reduction system using semiconductor photoelectrode and bio-catalyst<br>*Masanobu HIGASHI <sup>1</sup> , Takumi TOYODOME <sup>1</sup> , Yutaka AMAO <sup>1</sup> (1. Osaka City Univ.)                                                                                                                                                                                                                                                | 14 : 00 |
| [1C09] Using Triplet-Triplet Energy Transfer Kinetics to Access the Dynamics of Biomolecules at the Single-Molecule Level<br>*Jie XU <sup>1</sup> , Shuya FAN <sup>1</sup> , Lei XU <sup>1</sup> , Atsushi MARUYAMA <sup>2</sup> , Mamoru FUJITSUKA <sup>1</sup> , Kiyohiko KAWAI <sup>1</sup> (1. SANKEN, Osaka Univ., 2. Dept. of Life Sci. and Tech., Tokyo Inst. Tech.)                   | [1D09★] Activity sensing of cancer cells using luminescent Eu complexes in culture solution<br>*Masaya KONO <sup>1</sup> , Yuichi KITAGAWA <sup>2,4</sup> , Masumi TSUDA <sup>3,4</sup> , Sunao SHOJI <sup>2,4</sup> , Koji FUSHIMI <sup>2</sup> , Shinya TANAKA <sup>3,4</sup> , Yasuchika HASEGAWA <sup>2,4</sup> (1. Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Eng., Hokkaido Univ., 3. Fac. of Med., Hokkaido Univ., 4. WPI-ICReDD, Hokkaido Univ.) | 14 : 20 |

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| 14 : 40 | [1S10] Photoregulation of the Membrane Potential of Living Cells with Donor-Acceptor-Linked Molecules<br>*Tatsuya MURAKAMI <sup>1,2</sup> (1. Toyama Pref. Univ., 2. Kyoto Univ.)             | [1B10] Crystal structures of colloidal particles formed by laser ablation of vanadyl phthalocyanine crystals in aqueous solutions of surfactants<br>Tomotaka ARAKAKI <sup>1</sup> , Yuuki KADEKAWA <sup>1</sup> , *Yoshiaki TAMAKI <sup>1</sup> (1. Univ. of the Ryukyus)                                                                                                                                                                                                                                                      |
| 15 : 00 | Break / Rehearsal                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chair   | Akinori SAEKI (Osaka Univ.)                                                                                                                                                                   | Shun OMAGARI (Tokyo Inst. Tech.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 15 : 10 | [1S11] Wideband transient absorption spectroscopy for the photodynamics on inorganic and organic materials<br>*Akira YAMAKATA <sup>1</sup> , Kosaku KATO <sup>1</sup> (1. Toyota Tech. Inst.) | [1B11] Switching of fluorescence wavelength of aromatic molecules by using the volume change of NIPA<br>*Atom HAMASAKI <sup>1</sup> , Kei KUBO <sup>1</sup> , Miki HARASHIMA <sup>1</sup> , Akio KATSUKI <sup>2</sup> , Sumio OZEKI <sup>1</sup> (1. Fac. of Sci., Shinshu Univ., 2. SGE, Shinshu Univ.)                                                                                                                                                                                                                       |
| 15 : 30 | [1S12] Bridge-Mediated Dynamic Exciton<br>*Hiroshi IMAHORI <sup>1</sup> (1. Kyoto Univ.)                                                                                                      | [1B12] Synthesis and Exciton Dynamics of ZnSe/InP/ZnSe Spherical Quantum Wells<br>*Daichi EGUCHI <sup>1</sup> , Naoto TAMAI <sup>1</sup> (1. Grad. Sch. of Sci., Kwansei Gakuin Univ.)                                                                                                                                                                                                                                                                                                                                         |
| 15 : 50 |                                                                                                                                                                                               | [1B13] Key factor facilitating triplet-singlet resonance energy transfer for efficient red afterglow emission<br>*Kikuya HAYASHI <sup>1</sup> , Kei FUKASAWA <sup>2</sup> , Takashi YAMASHITA <sup>2</sup> , Shuzo HIRATA <sup>1</sup> (1. The Univ. of Electro-Commun., 2. Tokyo Univ. of Tech.)                                                                                                                                                                                                                              |
| 16 : 10 |                                                                                                                                                                                               | [1B14] Development of organic-based photostimulated luminescence systems<br>Manabu SAKURAI <sup>1</sup> , Ryota KABE <sup>2,3</sup> , Masaaki FUKI <sup>4</sup> , Zesen LIN <sup>2,3</sup> , Kazuya JINNAI <sup>3,5</sup> , Yasuhiro KOBORI <sup>1,4</sup> , Chihaya ADACHI <sup>3,5,6</sup> , *Takashi TACHIKAWA <sup>1,4</sup> (1. Grad. Sch. of Sci., Kobe Univ., 2. Okinawa Inst. Sci. & Tech. Grad. Univ., 3. ERATO, JST, 4. Mol. Photosci. Res. Center, Kobe Univ., 5. OPERA, Kyushu Univ., 6. WPI-I2CNER, Kyushu Univ.) |
| 16 : 30 |                                                                                                                                                                                               | [1B15] A Microspectroscopic Evaluation of Shape-Dependent Halide Vacancy Filling Kinetics in Lead Halide Perovskites<br>*Takuya OKAMOTO <sup>1</sup> , Muhammad SHAHJAHAN <sup>2</sup> , Vasudevanpillai BIJU <sup>1,2</sup> (1. RIES, Hokkaido Univ. 2. Grad. Sch. of Envi. Sci., Hokkaido Univ.)                                                                                                                                                                                                                             |
| 17 : 00 | Poster Session 1 (Remo)<br>17 : 00~18 : 40                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <p>[1C10] Improvements of photodynamic activities of silylporphyrin using sulfo-containing glucose</p> <p>*Hiroaki HORIUCHI<sup>1</sup>, Kota NISHIKAWA<sup>1</sup>, Msahiko OSHIGE<sup>1</sup>, Ichiro MATSUO<sup>1</sup>, Fumio SUGAWARA<sup>2</sup>, Kengo SAKAGUCHI<sup>2</sup>, Shinji KATSURA<sup>1</sup>, Toshitada YOSHIHARA<sup>1</sup>, Seiji TOBITA<sup>1</sup>, Tesuo OKUTSU<sup>1</sup> (1. Gunma Univ., 2. Tokyo Univ. of Sci.)</p> | <p>[1D10★] Wavelength-tunable Photoluminescence of Ag(In, Ga)(S, Se)<sub>2</sub> Quantum Dots for Near-IR Bioimaging</p> <p>*Nurmanita RISMANINGSIH<sup>1</sup>, Hiroki YAMAUCHI<sup>1</sup>, Tatsuya KAMEYAMA<sup>1</sup>, Hiroshi YUKAWA<sup>1</sup>, Taro UEMATSU<sup>2</sup>, Yoshinobu BABA<sup>1</sup>, Susumu KUWABATA<sup>2</sup>, Tsukasa TORIMOTO<sup>1</sup> (1. Grad. Sch. of Eng., Nagoya Univ., 2. Grad. Sch. of Eng., Osaka Univ.)</p> | 14 : 40 |
| Break / Rehearsal                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15 : 00 |
| Tadashi MORI (Osaka Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                        | Akitaka ITO (Kochi Univ. of Tech.)                                                                                                                                                                                                                                                                                                                                                                                                                    | Chair   |
| <p>[1C11] NHC Au(I) complex crystalline molecular rotor showing photo-induced rotational dynamics alternation with photochromism</p> <p>*Mingoo JIN<sup>1</sup>, Satsuki MATSUURA, Yu OZAWA<sup>2</sup>, Ayana SATO<sup>3</sup>, Hajime ITO<sup>1</sup> (1. WPI-ICReDD, Hokkaido Univ., 2. Dep. App. Chem., Hokkaido Univ., 3. Sch. of Medi., Jichi Medical Univ.)</p>                                                                            | <p>[1D11★] Switching of photoluminescence property in silver clusters</p> <p>*Wataru ISHII<sup>1</sup>, Tsuyoshi KAWAI<sup>1</sup>, Takuya NAKASHIMA<sup>1</sup> (1.NAIST)</p>                                                                                                                                                                                                                                                                        | 15 : 10 |
| <p>[1C12] Development of Visible Light Driven Acyl Azideation Catalyzed by Metal Ions Modified Titanium Oxide</p> <p>*Keita SHICHIJO<sup>1</sup>, Yoshio HISAEDA<sup>1</sup>, Hisashi SHIMAKOSHI<sup>1</sup> (1. Kyushu Univ.)</p>                                                                                                                                                                                                                | <p>[1D12] Hyperspectral Fluorescence Imaging of the phase-separation structures of the polymer blend films</p> <p>*Fuyuki ITO<sup>1</sup>, Yoshiya HATANO<sup>1</sup>, Shiho KATSUMI<sup>1</sup> (1. Fac. of Edu., Shinshu Univ.)</p>                                                                                                                                                                                                                 | 15 : 30 |
| <p>[1C13] Temperature-Dependent Kinetic Products of a Rectangular Amphiphilic Diarylethene Assembly</p> <p>*Kenji HIGASHIGUCHI<sup>1</sup>, Yasunobu KOTANI, Haruka YASUDA, Kenji MATSUDA<sup>1</sup> (1. Kyoto Univ.)</p>                                                                                                                                                                                                                        | <p>[1D13] Solid-state materials for TTA photon upconversion by “molecular anchor” approach</p> <p>Risa FUKUUCHI<sup>1,2</sup>, Neeti TRIPATHI<sup>1</sup>, Claire HECK<sup>1</sup>, Yuto TOYOSHIMA<sup>3</sup>, Takumi YOSHINAMI<sup>3</sup>, Kenji KOBAYASHI<sup>3</sup>, *Kenji KAMADA<sup>1,2</sup> (1. NMRI, AIST, 2. Grad. Sch. of Sci. and Tech., Kwansei Gakuin Univ., 3. Grad. Sch. of Sci., Shizuoka Univ.)</p>                              | 15 : 50 |
| <p>[1C14] Construction of novel photoluminescence materials based on the controlled photoisomerization of azobenzene derivatives</p> <p>*Mitsuaki YAMAUCHI<sup>1</sup>, Miho OKAJI<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Kwansei Gakuin Univ.)</p>                                                                                                                                                                                          | <p>[1D14] Elucidation of up-conversion mechanism of lanthanide-based core-shell nanoparticles using time-resolved photoluminescence spectroscopy</p> <p>*Kanji SUGIOKA<sup>1</sup>, Shiori MIYAZAKI<sup>1</sup>, Kiyoshi MIYATA<sup>1</sup>, Ayumi ISHII<sup>2</sup>, Ken ONDA<sup>1</sup> (1. Fac. of Sci., Kyushu Univ., 2. Fac. of Life &amp; Environ. Sci., Teikyo Univ. of Sci.)</p>                                                             | 16 : 10 |
| <p><b>JPA Award for Young Scientist 2020 Award Lecture</b></p> <p>[1C15]</p> <p>“Development of Highly Efficient Photophysical and Photoresponsive Functions Based on Rational Designs of <math>\pi</math>-Conjugated Compounds”</p> <p>*Takashi HIROSE<sup>1</sup> (1. Kyoto Univ.)</p>                                                                                                                                                          | <p>[1D15] Plasmonic properties of liquid-phase synthesized Au nanoparticles and Au-Pd nanoparticles</p> <p>*Yukie YOKOTA<sup>1</sup>, Asuka FUJITA<sup>1</sup>, Mayu YAMAMOTO<sup>1</sup>, Ryosuke KODAMA<sup>2</sup>, Ryoma UMINO<sup>2</sup>, Hideaki MATSUO<sup>2</sup>, Kazuo WATANABE<sup>2</sup> (1. Fac. of Sci and Tec., Sophia Univ., 2. Fac. of Sci., Tokyo Univ. of Sci.)</p>                                                              | 16 : 30 |
| <p>Poster Session 1 (Remo)</p> <p>17 : 00~18 : 40</p>                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17 : 00 |

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| <b>Wed. Sep. 15, 2021</b> |                                                                                                                                                                                                                                                                                                                                                                                     |
|                           | <b>Room A / Zoom</b>                                                                                                                                                                                                                                                                                                                                                                |
| 8 : 30                    | Open / Rehearsal                                                                                                                                                                                                                                                                                                                                                                    |
| 9 : 00                    | <p><b>Honda-Fujishima Lectureship Award 2021</b><br/> [AL02] (9:00~9:35)<br/> “Lighting up new reaction pathways – A Journey towards developing new excited state processes in molecules and materials”<br/> *Jayaraman SIVAGURU<sup>1</sup> (1. Bowling Green State Univ., OHIO, USA)<br/> Chair : Shinsuke TAKAGI (Tokyo Metropolitan Univ.)</p>                                  |
| 9 : 40                    | <p><b>Honda-Fujishima Lectureship Award 2020</b><br/> [AL03] (9:40~10:15)<br/> “Photochemical Reaction Mechanisms and Kinetics with Molecular Nanocrystals:<br/> Excited States, Strongly Entangled Qubit Pairs, and Photosalient Crystals”<br/> *Miguel GARCIA-GARIBAY<sup>1</sup> (1. Univ. of California, Los Angeles, USA)<br/> Chair : Kazuyuki ISHII (The Univ. of Tokyo)</p> |
| 10 : 20                   | <p><b>Kataoka Lectureship Award for Asian and Oceanian Photochemist 2021</b><br/> [AL04] (10:20~10:45)<br/> “Understanding the Charge Transportation in Photoactive Semiconductors for Solar Fuels Generation”<br/> *Yun Hau NG<sup>1</sup> (1. City Univ. of Hong Kong, Hong Kong)<br/> Chair : Tsukasa TORIMOTO (Nagoya Univ.)</p>                                                |
| 10 : 50                   | <p><b>Lectureship Award for Asian and Oceanian Photochemist Sponsored by Eikosha 2020</b><br/> [AL05] (10:50~11:15)<br/> “Ultrafast Excited State Dynamics of Twisted Aromatics”<br/> *Mahesh HARIHARAN<sup>1</sup> (1. Indian Inst. of Sci. Education and Research Thiruvananthapuram, India)<br/> Chair : Hiroshi IKEDA (Osaka Pref. Univ.)</p>                                   |
| 11 : 30                   | Lunchbreak / Rehearsal                                                                                                                                                                                                                                                                                                                                                              |
| 12 : 40                   | <p>Poster Session 2 (<b>Remo</b>)<br/> 12:40-14:20</p>                                                                                                                                                                                                                                                                                                                              |
| 14 : 20                   | Break / Rehearsal                                                                                                                                                                                                                                                                                                                                                                   |
| 14 : 30                   | <b>The Photochemistry Association General Meeting</b>                                                                                                                                                                                                                                                                                                                               |
| 16 : 00                   | Break / Rehearsal                                                                                                                                                                                                                                                                                                                                                                   |
| 16 : 10                   | <p><b>Elsevier Lectureship Award 2021</b><br/> [AL06] (16:10~16:45)<br/> “Proton-Coupled Electron Transfer in Artificial Photosynthesis”<br/> * Leif HAMMARSTRÖM<sup>1</sup> (1. Uppsala Univ., Sweden)<br/> Chair : Osamu ISHITANI (Tokyo Inst. Tech)</p>                                                                                                                          |
| 16 : 50                   | <p><b>Elsevier Lectureship Award 2020</b><br/> [AL07] (16:50~17:25)<br/> “Step-Change in Solar Energy Conversion Schemes”<br/> *Dirk GULDI<sup>1</sup> (1. Friedrich-Alexander-Univ. Erlangen-Nuernberg, Germany)<br/> Chair : Shunichi FUKUZUMI (Meijou Univ.)</p>                                                                                                                 |

(No presentation at Room B-D on Wed. Sep. 15, 2021)

| Thu. Sep. 16, 2021 |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                    | Room A / Zoom                                                                                                                                                                                                                                                                                                                                           | Room B/ Zoom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 8 : 30             | Open / Rehearsal                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Chair              | Osamu ISHITANI (Tokyo Inst. Tech.)                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9 : 00             | <b>JPA Special Lectureship Award 2021</b><br>[PL02] (9:00~9:35)<br>“Renaissance of Photoredox Catalysis: Organic Synthesis Driven by Visible Light”<br>*Munetaka AKITA <sup>1</sup> (1. Tokyo Inst. Tech.)                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9 : 35             |                                                                                                                                                                                                                                                                                                                                                         | Open / Rehearsal (9:20~)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chair              | Shinya TAKIZAWA (The Univ. of Tokyo)                                                                                                                                                                                                                                                                                                                    | Azusa KIKUCHI (Yokohama National Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9 : 40             | [3A01★] Performance Evaluation of Flow Photoreactors Using Intramolecular Photocycloaddition of Naphthalene Derivative<br>*Taichi INOUE <sup>1</sup> , Takuya OGAKI <sup>1,2</sup> , Yasunori MATSUI <sup>1,2</sup> , Eisuke OHTA <sup>1,2</sup> , Hiroshi IKEDA <sup>1,2</sup> (1. Grad. Sch. of Eng., Osaka Pref. Univ., 2. RIMED, Osaka Pref. Univ.) | [3B01] <i>In vivo</i> vascular imaging using phosphorescent Ir(III) complexes conjugated with oligoarginine peptides and a confocal phosphorescence lifetime imaging microscope<br>*Toshitada YOSHIHARA <sup>1</sup> , Mami YASUKAGAWA <sup>1</sup> , Sakura SUMI <sup>1</sup> , Shuichi SHIOZAKI <sup>1</sup> , Seiji TOBITA <sup>1</sup> (1. Grad. of Sci. and Tech., Gunma Univ.)                                                                                                                                                                                                    |
| 10 : 00            | [3A02] Synthesis of unsaturated macrocyclic lactones by photoinduced decarboxylative and Yamaguchi macrolactonization<br>*Kenta KAMEDA <sup>1</sup> , Yasuharu YOSHIMI <sup>1</sup> (1. Grad. Sch. Eng., Univ. of Fukui)                                                                                                                                | [3B02★] An aggregation induced emission based tetracationic fluorophore for efficient and improved Heparin sensing.<br>*Shrishti P. PANDEY <sup>2</sup> , Pamela JHA <sup>1</sup> , Prabhat K. SINGH <sup>2,3</sup> (1. Amity Univ. Mumbai, India, 2. Radiation & Photochemistry Division, Bhabha Atomic Research Centre, Mumbai, India, 3. Homi Bhabha National Inst., Anushaktinagar, Mumbai, India)                                                                                                                                                                                  |
| 10 : 20            | [3A03] Enantioselective [2+2]Photocycloaddition of Alkene Tethered to 1,4-Naphthoquinone Mediated by Chiral Oxazaborolidine Catalysts<br>*Nao SHIMIZU <sup>1</sup> , Tadashi MORI <sup>1</sup> (1. Osaka Univ.)                                                                                                                                         | [3B03] Relaxation process and cytotoxic effect of photoexcited face-to-face type P(V)porphyrin trimer<br>*Kazutaka HIRAKAWA <sup>1,2</sup> , Naoki KISHIMOTO <sup>1</sup> , Yoshinobu NISHIMURA <sup>3</sup> , Yuko IBUKI <sup>4</sup> , Masaaki FUKI <sup>5</sup> , Yasuhiro KOBORI <sup>5,6</sup> , Shigetoshi OKAZAKI <sup>7</sup> (1. Sch. of Integrated Sci. Tech., Shizuoka Univ., 2. GSST, Shizuoka Univ., 3. Sch. of Sci. Tech., Univ. Tsukuba, 4. Food Nutri. Sci., Univ. Shizuoka, 5. Fac. of Sci., Kobe Univ., 6. MPRC, Kobe Univ., 7. PMPERC, Hamamatsu Univ. Sch. of Med.) |
| 10 : 40            | Break / Rehearsal                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



Thu. Sep. 16, 2021

| Room C / Zoom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Room D / Zoom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
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| Open / Rehearsal (9:20~)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Open / Rehearsal (9:20~)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9 : 20  |
| Kazuki NAKAMURA (Chiba Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Takashi HIROSE (Kyoto Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Chair   |
| <p>[3C01] Enthalpy-Entropy Compensation Effect for Triplet Pair Dissociation in Intramolecular Singlet Fission<br/>           *Shunta NAKAMURA<sup>1</sup>, Hayato SAKAI<sup>1</sup>, Masaaki FUKI<sup>2</sup>, Yasuhiro KOBORI<sup>2</sup>, Nikolai V. TKACHENKO<sup>3</sup>, Taku HASOBE<sup>1</sup> (1. Fac. Sci. Tech., Keio Univ., 2. MPRC, Kobe Univ., 3. Tampere Univ.)</p>                                                                                                                                                                                                                                                                                                                                        | <p>[3D01★] High-speed Bending of Salicylideneaniline Crystals based on Photoisomerization, Photothermal Effect, and Natural Vibration.<br/>           *Shodai HASEBE<sup>1</sup>, Yuki HAGIWARA<sup>1</sup>, Jun KOMIYA<sup>1</sup>, Meguya RYU<sup>2</sup>, Hiroki FUJISAWA<sup>3</sup>, Junko MORIKAWA<sup>3</sup>, Tetsuro KATAYAMA<sup>4</sup>, Daiki YAMANAKA<sup>4</sup>, Akihiro FURUBE<sup>4</sup>, Hiroyasu SATO<sup>5</sup>, Toru ASAH<sup>1,6</sup>, Hideko KOSHIMA<sup>6</sup> (1. Grad. Sch. of Adv. Sci. and Eng., Waseda Univ., 2. AIST, 3. Sch. of Mat. Chem. Tech., Tokyo Tech., 4. Dept. of Optical Sci., Tokushima Univ., 5. Rigaku Corp., 6. Res. Org. for Nano and Life Innov., Waseda Univ.)</p> | 9 : 40  |
| <p>[3C02★] Real-time control of liquid crystalline adhesive by turning ultraviolet light on and off<br/>           *Tomoaki KONISHI<sup>1</sup>, Yuri SAIDA<sup>2</sup>, Wataru YAJIMA<sup>2</sup>, Ryo SHIKATA<sup>2</sup>, Masaki HADA<sup>2</sup>, Yuushi SHIMODA<sup>3</sup>, Kiyoshi MIYATA<sup>3</sup>, Yusuke YONEDA<sup>4</sup>, Hikaru KURAMOCHI<sup>4</sup>, Yumi NAKAIKE<sup>1</sup>, Mitsuo HARA<sup>5</sup>, Ryuma SATO<sup>6</sup>, Takuya YAMAKADO<sup>1</sup>, Ryota KOTANI<sup>1</sup>, Shohei SAITO<sup>1</sup> (1. Grad. Sch. of Sci., Kyoto Univ., 2. Grad. Sch. of Pure Appl. Sci., Univ. of Tsukuba, 3. Grad. Sch. of Sci., Kyushu Univ., 4. IMS, 5. Grad. Sch. of Eng., Nagoya Univ., 6. AIST)</p> | <p>[3D02★] Unexpected Highly Fluorescent Isomer Generated by NIR-Light-Driven Negative Photochromism of Bridged Imidazole Dimers<br/>           *Natsuho MORIYAMA<sup>1</sup>, Katsuya MUTOH<sup>1</sup>, Jiro ABE<sup>1</sup> (1. Aoyama Gakuin Univ.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10 : 00 |
| <p><b>JPA Award for Young Scientist 2020 Award Lecture</b><br/>           [3C03]<br/>           “Development of Supramolecular Sensors using Host-Guest Interactions and Their Applications to Optical Array Chips”<br/>           *Tsuyoshi MINAMI<sup>1</sup> (1. The Univ. of Tokyo)</p>                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>[3D03★] Fast T-type photochromic diarylbenzenes with various alkyl substituents in crystalline state<br/>           *Shota HAMATANI<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Osaka City Univ.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 : 20 |
| Break / Rehearsal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 : 40 |

| Chair   | Daichi EGUCHI (Kwansei Gakuin Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                          | Hikaru SOTOME (Osaka Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 : 50 | [3A04] Effect of Anisotropic Diffusion on Delayed fluorescence by Geminate Triplet Fusion<br>*Kazuhiko SEKI <sup>1</sup> , Tomomi YOSHIDA <sup>2</sup> , Tomoaki YAGO <sup>2</sup> , Masanobu WAKASA <sup>2</sup> , Ryuji KATOH <sup>3</sup> (1. National Inst. of Advanced Industrial Sci. and Tech., 2. Saitama Univ., 3. Nihon Univ.)                                                                                                                      | [3B04] Photodecomposition of Water by Photocatalytic Z-Scheme System: Light-Induced Charge Transfer Process<br>*Tadaaki TANI <sup>1</sup> , Taisei NISHIMI <sup>2</sup> , Takayuki UCHIDA <sup>3</sup> , Yuichi YAMAGUCHI <sup>4</sup> , Akihiko KUDO <sup>4</sup> (1. Soc. Photogr. Imaging Jpn., 2. ARPCChem., 3. Tokyo Polytech. Univ., 4. Tokyo Univ. Sci.)                                                                                                                    |
| 11 : 10 | [3A05] Long-range Exciton Diffusion in Organic Crystals via Interplay of Singlet Fission and Triplet-Triplet Annihilation<br>*Hiroyuki TAMURA <sup>1</sup> (1. The Univ. of Tokyo)                                                                                                                                                                                                                                                                            | [3B05] Elucidation of carrier dynamics in visible light absorbing oxysulfide photocatalyst by transient absorption spectroscopy<br>*Ryota SHOJI <sup>1</sup> , Vikas NANDAL <sup>1</sup> , Hiroyuki MATSUZAKI <sup>1</sup> , Akihiro HURUBE <sup>2</sup> , Lihua LIN <sup>3</sup> , Takashi HISATOMI <sup>3</sup> , Kazuhiko SEKI <sup>1</sup> , Kazunari DOMEN <sup>3,4</sup> (1. AIST, 2. Tokushima Univ., 3. RISM., Shinshu Univ., 4. Office of Univ. professors., Tokyo Univ.) |
| 11 : 30 | [3A06] Excited-State Dynamics in Covalently Linked Dimer of Pentacene-Au <sub>25</sub> Nanoclusters<br>*Hayato SAKAI <sup>1</sup> , Mana NAKAMOTO <sup>2</sup> , Masaaki FUKI <sup>3</sup> , Nikolai TKACHENKO <sup>4</sup> , Yasuhiro KOBORI <sup>3</sup> , Yuichi NEGISHI <sup>2</sup> , Taku HASOBE <sup>1</sup> (1. Fac. Sci. Tech., Keio Univ., 2. Fac. Sci., Tokyo Univ. Sci., 3. Molecular Photoscience Research Center, Kobe Univ., 4. Tampere Univ.) | [3B06★] Long-Range Trapping of Photogenerated Electrons in Halide Perovskite Films<br>*Sachith Bhagyashree MAHESHA <sup>1</sup> , Sushant GHIMIRE <sup>1</sup> , Takuya OKAMOTO <sup>2</sup> , Tomokazu UMEYAMA <sup>3</sup> , Yuta TAKANO <sup>1,2</sup> , Hiroshi IMAHORI <sup>4</sup> , Vasudevanpillai BIJU <sup>1,2</sup> (1. Grad. Sch. of Envi. Sci., Hokkaido Univ., 2. RIES, Hokkaido Univ., 3. Grad. Sch. of Eng, Univ. of Hyogo, 4. Grad. Sch. of Eng., Kyoto Univ.)    |
| 11 : 50 | Break / Rehearsal                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lunchbreak                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 12 : 00 | <b>[LS] Luncheon Seminar for Young Researchers<br/>12:00-12:40</b><br>Tomoyuki HAMAJI<br>(Kyusyu Univ. KIMIZUKA Laboratory M2)<br>Saki IMAI (Chiba Univ. YAGAI Laboratory M1)                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12 : 40 | Open / Rehearsal (12:40~)                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Chair   | Akihiko KUDO (Tokyo Univ of Sci.)                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 13 : 00 | <b>JPA Award 2020 Award Lecture</b><br>[AL08] (13:00~13:25)<br>Development of novel transient absorption spectroscopy and reaction dynamics for highly efficient photocatalysis<br>*Akira YAMAKATA <sup>1</sup> (1. Toyota Tech. Inst.)                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Chair   | Yutaka NAGASAWA (Ritsumeikan Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                           | Open / Rehearsal (13:20~)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Chair   | Yutaka NAGASAWA (Ritsumeikan Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                           | Takashi TACHIKAWA (Kobe Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 13 : 40 | [3A07] Excited state dynamics of photosystem II studied by two-dimensional electronic-vibronic spectroscopy<br>*Yusuke YONEDA <sup>1,2</sup> , Eric A. ARSENAULT <sup>1,2</sup> , Kaydren ORCUTT <sup>1</sup> , Masakazu IWAI <sup>1,2</sup> , Graham R. FLEMING <sup>1,2</sup> (1. Univ. of California, Berkeley, 2. Lawrence Berkeley National Laboratory)                                                                                                  | [3B07★] One Photon-induced Photoelectrochemical Water Oxidation by Aluminum Porphyrin /Metal Oxides<br>*Abin SEBASTIAN <sup>1</sup> , Fazalurahman KUTTASSERY <sup>2</sup> , Hiroshi TACHIBANA <sup>1</sup> , Haruo INOUE <sup>1</sup> (1. Dept. of Appl. Chem., Tokyo Metropolitan Univ., 2. Dept. of Chem., Univ. of Calicut)                                                                                                                                                    |

| Yasunori MATSUI (Osaka Pref. Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Akinobu NAKADA (Chuo Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chair   |
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| <p>[3C04★] Investigation of Solid-State Fluorescence Properties of Two Carborane-Based Isomers Derived from Asymmetric Fusing</p> <p>*Junki OCHI<sup>1</sup>, Kazuo TANAKA<sup>1</sup> (1. Grad. Sch. of Eng., Kyoto Univ.)</p>                                                                                                                                                                                                                                                                 | <p>[3D04] Photochemical Synthesis of Methanol and Formic Acid by Oxygenation of Methane Containing Biogas with Chlorine Dioxide</p> <p>*Kei OHKUBO<sup>1,2</sup>, Kumiko HIRAMATSU<sup>1</sup>, Yusaku YAMAZAKI<sup>3</sup>, Takashi ANDO<sup>3</sup>, Tsuyoshi NAGAMINE<sup>3</sup>, Kazutoshi HAZAMA<sup>3</sup> (1. OTRI, Osaka Univ., 2. IACS, Osaka Univ., 3. Hokkaido, Okoppe Town)</p>                                                                                                                                                                                                                                   | 10 : 50 |
| <p>[3C05] Near-infrared Fluorescent Organic Porous Crystal That Responds to Solvent Vapors</p> <p>*Tsutomu ISHI-I<sup>1</sup>, Honoka TANAKA<sup>1</sup>, Himiko KOGA<sup>1</sup>, Taisuke MATSUMOTO<sup>2</sup> (1. National Inst. of Tech., Kurume College, 2. Inst. for Materials and Chem. and Eng., Kyushu Univ.)</p>                                                                                                                                                                      | <p>[3D05] Resonance sites of higher-order plasmon-induced charge separation at metal nanocubes</p> <p>*Hiroyasu NISHI<sup>1</sup>, Tetsu TATSUMA<sup>1</sup> (1. IIS, The Univ. of Tokyo)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 : 10 |
| <p>[3C06] Relationship between fluorescence in the solid state and the crystal structures of biaryls</p> <p>*Minoru YAMAJI<sup>1</sup>, Hikdeki OKAMOTO<sup>2</sup>, Kenta GOTO<sup>3</sup>, Fumito TANI<sup>4</sup> (1. Grad. Sch. of Sci. &amp; Eng. Gunma Univ., 2. Grad. Sch. of Nat.Sci. Okayama Univ., 3. Inst. for Mater. Chem. &amp; Eng. Kyushu Univ., 4. Inst. for Mater. Chem. &amp; Eng. Kyushu Univ.)</p>                                                                          | <p>[3D06★] Elucidation of the emission mechanism in Eu(III) complexes doped host-guest films using time-resolved spectroscopy</p> <p>*Shiori MIYAZAKI<sup>1</sup>, Kiyoshi MIYATA<sup>1</sup>, Ferreira da Rosa Pedro PAURO<sup>2</sup>, Fumiya SUZUE<sup>2</sup>, Kenichi GOUSHI<sup>3</sup>, Chihaya ADACHI<sup>3</sup>, Yuichi KITAGAWA<sup>4,5</sup>, Yasuchika HASEGAWA<sup>4,5</sup>, Ken ONDA<sup>1</sup> (1. Dept. of Chem., Kyushu Univ., 2. Grad. Sch. of Chem. Sci. Eng., Hokkaido Univ., 3. OPERA, Kyushu Univ., 4. Fac. of Eng., Hokkaido Univ., 5. WPI-ICReDD, Hokkaido Univ.)</p>                                | 11 : 30 |
| Lunchbreak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lunchbreak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11 : 50 |
| Open / Rehearsal (13:20～)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Open / Rehearsal (13:20～)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13 : 20 |
| Kazuo TANAKA (Kyoto Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tomoya OSHIKIRI (Hokkaido Univ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Chair   |
| <p>[3C07] Crystalline-state chemiluminescence properties of adamantylideneadamantane 1,2-dioxetanes conjugated with two fluorophores</p> <p>*Chihiro MATSUHASHI<sup>1</sup>, Hironaga OHYAMA<sup>2</sup>, Hidehiro UEKUSA<sup>2</sup>, Ayana SATO-TOMITA<sup>3</sup>, Kouhei ICHIYANAGI<sup>4</sup>, Shojiro MAKI<sup>1</sup>, Takashi HIRANO<sup>1</sup> (1. The Univ. of Electro-Commun., 2. Tokyo Inst. Tech., 3. Jichi Medical Univ., 4. High Energy Accelerator Research Organization)</p> | <p>[3D07] Unraveling the impact of the non-linear processes in optical trapping: the role of optical resonance effect on single-trapped perylenediimide-doped microparticle at an interface</p> <p>*Roger Bresoli OBACH<sup>1</sup>, Tetsuhiro KUDO<sup>3</sup>, Boris LOUIS<sup>1,4</sup>, Hiroshi MIYASAKA<sup>5</sup>, Syoji ITO<sup>5</sup>, Hikaru SOTOME<sup>5</sup>, Ivan G. SCHEBLYKIN<sup>4</sup>, Hiroshi MASUHARA<sup>2</sup>, Johan HOFKENS<sup>1,6</sup> (1. KULeuven, 2. National Yang Ming Chiao Tung Univ., 3. Toyota Tech. Inst., 4. Lund Univ., 5. Osaka Univ., 6. Max Planck Inst. for Polymer Research)</p> | 13 : 40 |

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| 14 : 00 | <p>[3A08] Luminescent photochromism of electron donor-acceptor chromophore in mesoporous silica nanochannels<br/> *Raj Kumar KONINTI<sup>1</sup>, Tetsu TAMURA<sup>1</sup>, Kiyoshi MIYATA<sup>1</sup>, Youichi TSUCHIYA<sup>2</sup>, Chihaya ADACHI<sup>2</sup>, Ken ONDA<sup>1</sup> (1. Grad. Sch. of Sci., Kyushu Univ., 2. OPERA)</p> | <p>[3B08] Excitonic coupling phenomenon directly revealed on single chains of polyfluorene by combined force spectroscopy and fluorescence microscopy<br/> Tomonori NAKAMURA<sup>1</sup>, Shun OMAGARI<sup>1</sup>, Xiaobin LIANG<sup>1</sup>, Ken NAKAJIMA<sup>1</sup>, *Martin VACHA<sup>1</sup> (1. Tokyo Inst. Tech.)</p>                                                                                                                                                                                          |
| 14 : 20 | <p>[3A09] Photochemical reaction of ketoprofen with amino acid residues in human serum albumin<br/> *Wataru KASHIHARA<sup>1</sup>, Kazuyoshi UEDA<sup>1,2</sup>, Tadashi SUZUKI<sup>1</sup> (1. Coll. Sci. Eng., Aoyama Gakuin Univ., 2. Fac. of Eng., Yokohama Gakuin Univ.)</p>                                                          | <p>[3B09★] Sensitizer–Host–Annihilator Ternary Blends for Efficient Photon Upconversion<br/> *Yuji SAKAMOTO<sup>1</sup>, Yasunari TAMAI<sup>1,2</sup>, Hideo OHKITA<sup>1</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. JST PRESTO)</p>                                                                                                                                                                                                                                                                                |
| 14 : 40 | <p>[3A10] Charge recombination process in TiO<sub>2</sub> photocatalysts studied by means of newly developed highly sensitive transient absorption spectrometer<br/> *Ryuzi KATOH<sup>1</sup>, Tatsuo NAKAGAWA<sup>2</sup> (1. Nihon Univ., 2. Unisoku Co., Ltd.)</p>                                                                      | <p>[3B10] Promoting spin-forbidden absorption in Ruthenium complexes by dielectric metasurfaces with enhanced magnetic field<br/> *Hiroshi SUGIMOTO<sup>1,3</sup>, Hiroaki HASEBE<sup>1</sup>, Taniyuki FURUYAMA<sup>2,3</sup>, Minoru FUJII<sup>1</sup> (1. Kobe Univ., 2. Kanazawa Univ., 3. JST-PRESTO)</p>                                                                                                                                                                                                         |
| 15 : 00 | Break / Rehearsal                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Chair   | Yasuyuki ARAKI (Tohoku Univ.)                                                                                                                                                                                                                                                                                                              | Tomoaki YAGO (SaitamaUniv.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 15 : 10 | <p>[3A11] Femtosecond transient absorption spectroscopy and thermally activated delayed fluorescence in TCNQ<br/> *Toshifumi IIMORI<sup>1</sup>, Yuto TORII<sup>1</sup>, Takumi ISHIKAWA<sup>1</sup>, Naoto TAMAI<sup>2</sup> (1. Muroran Tech., 2. Kwansei Gakuin Univ.)</p>                                                              | <p>[3B11] Spin Dynamics in the Reactions of OH radical with Organic Acids Studies by Means of Time-Resolved Electron Spin Resonance Spectroscopy<br/> *Yoshio NOSAKA<sup>1</sup>, Yutaka KUWABARA<sup>2</sup>, Masahiro KITAZAWA<sup>3</sup>, Takashi KUKIZAWA, Atsuko NOSAKA (1. Nagaoka Univ. Tech., 2. Sunarrow, Ltd., 3. JEOL Resonance)</p>                                                                                                                                                                       |
| 15 : 30 | <p>[3A12] Detection of Higher-lying Excited States in Luminescent Materials using Multi-Pulse Transient Spectroscopy<br/> *Kiyoshi MIYATA<sup>1</sup>, Masaki SAIGO<sup>1</sup>, Ken ONDA<sup>1</sup> (1. Kyushu Univ.)</p>                                                                                                                | <p>[3B12] Novel photo-polymerisation reaction of indole and derivatives studied by fluorescence micro-spectroscopy<br/> *Jonathan Roger WOODWARD<sup>1</sup>, Xu TAO<sup>1</sup>, Noboru IKEYA<sup>1</sup> (1. The Univ. of Tokyo)</p>                                                                                                                                                                                                                                                                                 |
| 15 : 50 | <p>[3A13] Observation of carrier and polarization dynamics in a lead halide perovskite crystal by femtosecond transient absorption microscopy<br/> *Tetsuro KATAYAMA<sup>1</sup>, Yuma FUJITA<sup>1</sup>, Yuichiro AKAGI<sup>1</sup>, Akihiro FURUBE<sup>1</sup> (1. Tokushima Univ.)</p>                                                 | <p>[3B13] Optically evolving condensation of protein: A sub-millimeter 3-dimensional domain formation from solution surface<br/> *Shuichi TOYOUCHI<sup>1</sup>, Po-Wei YI<sup>1,2</sup>, Wei-Hsiang CHIU<sup>1</sup>, Roger Bresolí-OBACH<sup>3</sup>, Johan HOFKENS<sup>3</sup>, Eri CHATANI<sup>4</sup>, Teruki SUGIYAMA<sup>1,2</sup>, Ryohei YASUKUNI<sup>2</sup>, Yoichiro HOSOKAWA<sup>2</sup>, Hiroshi MASUHARA<sup>1</sup> (1. DAC, NYCU, 2. NAIST, 3. Dept. of Chem., KUL, 4. Dept. of Chem., Kobe Univ.)</p> |

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| [3C08] Mechanistic study on near-infrared chemiluminescence from heated crystals of anthracene endoperoxides<br>*Norihisa YAMASAKI <sup>1</sup> , Chihiro MATSUHASHI <sup>1</sup> , Hironaga OYAMA <sup>2</sup> , Hidehiro UEKUSA <sup>2</sup> , Junko MORIKAWA <sup>3</sup> , Meguya RYU <sup>4</sup> , Shojiro MAKI <sup>1</sup> , Takashi HIRANO <sup>1</sup> (1. The Univ. of Electro-Commun., 2. Tokyo Inst. Tech., 3. Tokyo Inst. Tech., 4. AIST)                                                                                                     | [3D08★] Visible and Near Infrared Light Induced Electron Injection from Perylene Bisimide to ZnS Nanocrystals with Stepwise Two-Photon Absorption Process<br>*Daisuke YOSHIOKA <sup>1</sup> , Yoichi KOBAYASHI <sup>1</sup> (1. Fac. of Life Sci., Ritsumeikan Univ.)                                  | 14 : 00 |
| [3C09] Solid-state Luminescence Behavior of Thermally Activated Delayed Fluorescence Molecules Possessing Arylsulfonyl Groups<br>*Yasunori MATSUI <sup>1,2</sup> , Yudai YOKOYAMA <sup>1</sup> , Masaki SAIGO <sup>3</sup> , Kiyoshi MIYATA <sup>3</sup> , Kenta ISHIHARAGUCHI <sup>1</sup> , Takuya OGAKI <sup>1,2</sup> , Eisuke OHTA <sup>1,2</sup> , Hiroyoshi NAITO <sup>1,2</sup> , Ken ONDA <sup>3</sup> , Hiroshi IKEDA <sup>1,2</sup> (1. Grad. Sch. of Eng., Osaka Pref. Univ., 2. RIMED, Osaka Pref. Univ., 3. Grad. Sch. of Sci., Kyushu Univ.) | [3D09] Unusual temperature dependent polymer relaxation disclosed by single-molecule fluorescence spectroscopy: consideration by mode-coupling theory<br>*Mitsuru ISHIKAWA <sup>1</sup> , Risa FUKASE <sup>1</sup> , Yuki HARADA <sup>1</sup> , Takayuki UWADA <sup>1</sup> (1. Fac. Sci. Josai Univ.) | 14 : 20 |
| [3C10] Effect of Chirality on the Ultralong Lifetime Phosphorescence of Crystals of Phenylethanediol Derivatives<br>*Takashi KARATSU <sup>1</sup> , Kaname ISHIGAKI <sup>1</sup> , Masaru YAMADA <sup>1</sup> , Tatsuo TANIGUCHI <sup>1</sup> (1. Fac. of Eng., Chiba Univ.)                                                                                                                                                                                                                                                                                | [3D10] Chlorogenic Acids Protect Organic Dyes against Photobleaching<br>Kino TSUCHIDA <sup>1</sup> , *Yukiko TAKAHASHI <sup>1</sup> , Hisako OKUMURA <sup>2</sup> (1. Nagaoka Univ. of Tech., 2. Nagaoka Natl. College of Tech.)                                                                       | 14 : 40 |
| Break / Rehearsal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        | 15 : 00 |
| Takashi HIRANO (The Univ. of Electro-Commun.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ayumi ISHII (Teikyo Univ. of Sci.)                                                                                                                                                                                                                                                                     | Chair   |
| [3C11] Control of Optical Properties for Thiophene-fused Naphthodiphospholes by Precise Fusion of Heterole Rings<br>*Keiichi ISHIDA <sup>1</sup> , Tomohiro HIGASHINO <sup>1</sup> , Hiroshi IMAHORI <sup>1,2</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. WPI-iCeMS, Kyoto Univ.)                                                                                                                                                                                                                                                                         | [3D11] Role of Solvent Additives in Performance Improvement of Polymer Blend Solar Cells Studied by Photoconductive AFM<br>*Hiroaki BENTEN <sup>1</sup> , Yuji YAMAGATA <sup>1</sup> , Masakazu NAKAMURA <sup>1</sup> (1. NAIST)                                                                       | 15 : 10 |
| [3C12] Fluorescence behavior of phenacene derivative incorporating electron-withdrawing imide moieties at the both edges of the molecule<br>Kaito YOSHIOKA <sup>1</sup> , Minoru YAMAJI <sup>2</sup> , Kenta GOTO <sup>3</sup> , Fumito TANI <sup>3</sup> , *Hideki OKAMOTO <sup>1</sup> (1. Okayama Univ., 2. Gunma Univ., 3. Kyushu Univ.)                                                                                                                                                                                                                | [3D12] Molecular Modeling for Verification of Decisive Roles of Van Der Waals Aggregation of Triiodide Ions for Photoelectric conversion in Wet-Type N3-Dye-Sensitized Solar Cells<br>*Shozo YANAGIDA <sup>1</sup> , Susumu YANAGISAWA <sup>2</sup> (1. Osaka Univ., 2. Univ. of the Ryukyus)          | 15 : 30 |
| [3C13] Bridged Stilbenes: Design of the Non-radiative Decay Pathway by Loose Ring Structure<br>*Riki IWAI <sup>1</sup> , Gen-ichi KONISHI <sup>1</sup> (1. Sch. Mater. & Chem., Tokyo Tech.)                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                        |         |
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| 16 : 10 | <p>[3A14] Excited-state Migration Dynamics of Copper Phthalocyanine Single Nanorods by Femtosecond Pump-Probe Microspectroscopy</p> <p>*Yukihide ISHIBASHI<sup>1</sup>, Ryo KIHARA<sup>1</sup>, Tsuyoshi ASAH<sup>1</sup> (1. Ehime Univ.)</p> | <p>[3B14] Optica trapping dynamics of dye-doped polystyrene microparticles: Resonance enhancement in ensemble system</p> <p>*Hiroshi MASUHARA<sup>1</sup>, Yu-Chia CHANG<sup>1</sup>, Shuichi TOYOUCHI<sup>1</sup>, Tetsuhiro KUDO<sup>3</sup>, Roger BRESOLI-OBCH<sup>2</sup>, Johan HOFKENS<sup>2</sup> (1. DAC, NYCU, 2. KULeuven, 3. Toyota Tech. Inst.)</p> |
| 16 : 40 | <p>Poster Session 3 (<b>Remo</b>)</p> <p>16 : 40~18 : 20</p>                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                  |

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| <p>[3C14★] Delayed Luminescence Properties of Imide Compounds having Naphthalene, Biphenyl and Oxidiphthalic Core Structures.</p> <p>*Marina DOI<sup>1</sup>, Koichiro MUTO<sup>1</sup>, Mayuko NARA<sup>1</sup>, Naiqiang LIANG<sup>1</sup>, Ryohei ISHIGE<sup>1</sup>, Shinji ANDO<sup>1</sup> (1. Dept. of Chem. Sci. and Eng., Tokyo Inst. Tech.)</p> |  | 16 : 10 |
| <p>Poster Session 3 (<b>Remo</b>)</p> <p>16 : 40~18 : 20</p>                                                                                                                                                                                                                                                                                              |  | 16 : 40 |

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## Poster Session 1

**Tue. Sep 14, 2021 5:00 PM - 6:40 PM**

[1P01★] Development of Pentalenedione-based Singlet Fission Material Possessing High T<sub>1</sub> Energy Level

\*Tomoki NAGAOKA<sup>1</sup>, Yasunori MATSUI<sup>1,2</sup>, Takuya OGAKI<sup>1,2</sup>, Eisuke OHTA<sup>1,2</sup>, Hiroshi IKEDA<sup>1,2</sup> (1. Grad. Sch. of Eng., Osaka Pref. Univ., 2. RIMED, Osaka Pref. Univ.)

[1P02★] Development of heavy metal-free visible-to-UV photon upconversion systems

\*Masanori UJI<sup>1</sup>, Naoyuki HARADA<sup>1</sup>, Nobuo KIMIZUKA<sup>1,2</sup>, Nobuhiro YANAI<sup>1,2,3</sup> (1. Grad. Sch. of Eng., Kyushu Univ., 2. CMS, Kyushu Univ., 3. PRESTO, JST)

[1P03★] Photoresponsive properties of Nanorings Formed by Self-Assembly of Scissor-Shaped Azobenzene Dyad

\*Hironari ARIMA<sup>1</sup>, Shiki YAGAI<sup>2</sup>, Luis SANCHEZ<sup>3</sup>, Jorge S. VALERA<sup>4</sup> (1. Grad. Sch. of Eng. and Sci., Chiba Univ., 2. IGPR, Chiba Univ., 3. Dept. of Organic Chem. Complutense Univ. of Madrid, 4. Univ. of Strasbourg, CNRS)

[1P04★] Construction of Quantum Dot Arrangement Structures Using an Azobenzene Derivative and Elucidation of the Formation Mechanism

\*Naoki KUBO<sup>1</sup>, Mitsuaki YAMAUCHI<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Grad. Sch. of Sci. and Technol., Kwansei Gakuin Univ.)

[1P05★] Control of Incoherent Scattering of Silica Nanoparticle-based Colloidal Amorphous Showing Structural Color by Thermochromism of Leuco Dye/Developer System

\*Ryohei KOBAYASHI<sup>1</sup>, Norihisa KOBAYASHI<sup>1</sup>, Kazuki NAKAMURA<sup>1</sup> (1. Grad. Sch. of Eng., Chiba Univ.)

[1P06★] Investigation of pyrene aggregates for high-brightness CPL expression by using DNA backbone

\*Yuka ITO<sup>1</sup>, Hiromu KASHIDA<sup>1</sup>, Takahiro KAKUTA<sup>2</sup>, Tomoki OGOSHI<sup>3</sup>, Hiroyuki ASANUMA<sup>1</sup> (1. Grad. Sch. of Eng., Nagoya Univ., 2. Grad. Sch. of Natural Sci. and Tech., Kanazawa Univ., 3. Grad. Sch. of Eng., Kyoto Univ.)

[1P07★] Control of cell membrane permeation based on selective adsorption of a photoactive surfactant on albumin

\*Mai SHINOHARA<sup>1</sup>, Xu WEI<sup>2</sup>, Sunnam KIM<sup>2</sup>, Tsuyoshi FUKAMINATO<sup>2</sup>, Takuro NIDOME<sup>2</sup>, Seiji KURIHARA<sup>2</sup> (1. Grad. School of Sci. and Tech., Kumamoto Univ., 2. Fac. of Adv. Sci. and Tech., Kumamoto Univ.)

[1P08★E] Photochromic reaction behavior and improved fatigue-resistance of a diarylethene included in cyclodextrin with different pore sizes

\*Ryotaro MIYAMOTO<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Osaka City Univ.)

[1P09★] Kinetic Analysis of Photochemical Paths in Asymmetric Diarylethene Dimer

\*Yae HIROYASU<sup>1</sup>, Chihiro SHIRAKATA, Masataka SUGIMOTO<sup>1</sup>, Kenji HIGASHIGUCHI<sup>1</sup>, Kenji MATSUDA<sup>1</sup> (1. Grad.Sch. of Eng., Kyoto Univ.)

[1P10★] Synthesis and photochemical property of asymmetric tetraarylene capable of two-way photocyclization

\*Masataka SUGIMOTO<sup>1</sup>, Kenji HIGASHIGUCHI<sup>1</sup>, Kenji MATSUDA<sup>1</sup> (1. Grad. Sch. of Eng., Kyoto Univ.)

[1P11★] Development of a stimuli-responsive supramolecular photocatalyst based on a zwitterionic rhodamine dye

\*Satomi HAGIO<sup>1</sup>, Hajime SHIGEMITSU<sup>1</sup>, Youhei TANI<sup>1</sup>, Toshiyuki KIDA<sup>1</sup> (1. Grad. School of Eng., Osaka Univ.)

[1P12] Properties of a novel chiral co-adsorbent in the asymmetric photohydrogenation reaction on titanium dioxide

\*Shigeru KOHTANI<sup>1</sup>, Sayuri KAWASHIMA<sup>1</sup>, Yurika MIURA<sup>1</sup>, Genki NEGORO<sup>1</sup>, Akira KAWASHIMA<sup>1</sup>, Bunsho OHTANI<sup>2</sup>, Hideto MIYABE<sup>1</sup> (1. Hyogo Univ. Health Sci., 2. ICAT, Hokkaido Univ.)



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[1P13★] Supramolecular Polymerization-Induced Emission of Diphenylthiophene Bearing Barbituric Acid  
\*Maika KAWAURA<sup>1</sup>, Shiki YAGAI<sup>2</sup> (1. Grad. Sch. of Eng. and Sci., Chiba Univ., 2. IGPR, Chiba Univ.)

[1P14★] Preparation of bridged-distyrylbenene as a new AIEgen and correlation between crystal structures and solid-state fluorescence.

\*Yoshimichi SHIMOMURA<sup>1</sup>, Gen-ichi KONISHI<sup>1</sup> (1. Tokyo Inst. Tech.)

[1P15★] Fluorescent Solvatochromic Properties of Push-pull Type Bridged Stilbenes

\*Takuya TANAKA<sup>1</sup>, Gen-ichi KONISHI<sup>1</sup> (1. Sch. Mater. & Chem. Tech., Tokyo Inst. Tech.)

[1P16★E] Tuning the Mechanochromically Luminescent Properties of Thienylbenzothiadiazole by Forming Mixed Crystals

\*Ryohei YOSHIDA<sup>1</sup>, Suguru ITO<sup>1</sup> (1. Grad. Sch. of Eng. Sci., Yokohama Natl. Univ.)

[1P17★E] Fluorescence and Phosphorescence Properties of Sulfur-containing Polyimides having Adamantyl Skeletal Structure in the Main Chain

\*Hiroka YAMAMATSU<sup>1</sup>, Atsuko TABUCHI<sup>1</sup>, Naiqiang LIANG<sup>1</sup>, Ryohei ISHIGE<sup>1</sup>, Shinji ANDO<sup>1</sup> (1. Dept. of Chem. Sci. and Eng., Tokyo Inst. Tech.)

[1P18★E] Long-range mode coupling of 2D microdisks array made of organic semiconductor thin films and its controllability

\*Akihiro KAMEDA<sup>1</sup>, Sunao SHIMOMOTO<sup>1</sup>, Hiroyuki TAJIMA<sup>1</sup>, Junichi YAMADA<sup>1</sup>, Tokuji YOKOMATSU<sup>2</sup>, Kazusuke MAENAKA<sup>2</sup>, Takeshi KOMINO<sup>1</sup> (1. Grad. Fac. of Sci., Univ. Hyogo, 2. Grad. Fac. of Eng., Univ. Hyogo)

[1P19★E] Two-step mechanochromic luminescence based on the formation of charge-transfer complexes within a two-component dye

\*Masayasu MUNAKATA<sup>1</sup>, Ryohei SEKINE<sup>1</sup>, Takashi TACHIKAWA<sup>2,3</sup>, Suguru ITO<sup>1</sup> (1. Grad. Sch. of Eng. Sci., Yokohama Natl. Univ., 2. Grad. Sch. of Sci., Kobe Univ., 3. Mol. PhotoSci. Res. Center, Kobe Univ.)

[1P20★E] Development of Novel Near-Infrared Fluorescent Dye for *in vivo* Two-photon Microscopic Imaging of Deep-Brain Vasculature of Mice

\*Hitomi MATSUURA<sup>1</sup>, Yousuke NIKO<sup>1</sup>, Shingo HADANO<sup>1</sup>, Shigeru WATANABE<sup>1</sup>, Takeshi IMAMURA<sup>2</sup>, Ryosuke KAWAKAMI<sup>2</sup> (1. Kochi Univ., 2. Ehime Univ.)

[1P21★] The substituent effects on the photophysical property of alkynylanthracenes with a diphenylphosphoryl group

\*Nina MURAYAMA<sup>1</sup>, Joel Hao JOROLAN<sup>2</sup>, Mao MINOURA<sup>3</sup>, Haruyuki NAKANO<sup>4</sup>, Tadaaki IKOMA<sup>2</sup>, Yoshihiro MATANO<sup>2</sup> (1. Grad. Sch. of Sci. and Tech., Niigata Univ., 2. Fac. of Sci., Niigata Univ., 3. Fac. of Sci., Rikkyo Univ., 4. Grad. Sch. of Sci., Kyushu Univ.)

[1P22★] A Novel Bianthryl Derivative Exhibiting Strong Fluorescence in Crystalline Phase

\*Tomoko IWASAKI<sup>1</sup>, Akitaka ITO<sup>1</sup> (1. Grad. Sch. of Eng., Kochi Univ. of Tech.)

[1P23★] Photodimerization of Tetraaryl[3]cumulenes and Their Luminescent Properties

\*Keita HOSHI<sup>1</sup>, Tetsuro KATAYAMA<sup>1,2</sup>, Akihiro FURUBE<sup>1,2</sup>, Keiji MINAGAWA<sup>1</sup>, Yasushi IMADA<sup>1</sup>, Fumitoshi YAGISHITA<sup>1,2</sup> (1. Tokushima Univ., 2. Inst. of Post-LED Photonics, Tokushima Univ.)

[1P24★] Controlling molecular gearing motion in crystals with the luminescence property mediated by cationic NHC copper(I) complexes

\*Rempei ANDO<sup>1</sup>, Mingoo JIN<sup>1,2</sup>, Marcos JELLEN<sup>3</sup>, Miguel GARCIA-GARIBAY<sup>3</sup>, Hajime ITO<sup>1,2</sup> (1. Grad. School of Eng., Hokkaido Univ., 2. WPI-ICReDD, Hokkaido Univ., 3. UCLA)

[1P25★] Enhancement of blue luminescence of phenylquinoline derivatives by cation addition

\*Jun ASANO<sup>1</sup>, Kaname ISHIGAKI, Tatsuo TANIGUCHI<sup>1</sup>, Takashi KARATSU<sup>1</sup> (1. Grad. Sch. of Eng., Chiba Univ.)

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[1P26★] Pressure Responsiveness to Fluorescence Properties of Crystals of Organoboron Complexes Possessing the [2.2]Paracyclophane Moiety

\*Shun IRII<sup>1</sup>, Takuya OGAKI<sup>1,2</sup>, Takumu ARI<sup>1</sup>, Shun YAMAMOTO<sup>1</sup>, Hana MIYASHITA<sup>3</sup>, Kazutaka NOBORI<sup>3</sup>, Hiroki IIDA<sup>3</sup>, Yoshiki OZAWA<sup>3</sup>, Masaaki ABE<sup>3</sup>, Hiroyasu SATO<sup>4</sup>, Eisuke OHTA<sup>1,2</sup>, Yasunori MATSUI<sup>1,2</sup>, Hiroshi IKEDA<sup>1,2</sup> (1. Grad. Sch. of Eng., Osaka Pref. Univ., 2. RIMED, Osaka Pref. Univ., 3. Grad. Sch. of Sci., Univ. of Hyogo., 4. Rigaku Corp.)

[1P27★] Synthesis of a novel water-soluble diphenylanthracene derivative and doping into ionic nanosphere

\*Taizo MISATO<sup>1</sup>, Akitaka ITO<sup>1</sup> (1. Grad. Sch. of Eng., Kochi Univ. of Tech.)

[1P28★] Photoinduced Selective Oxygenation of Dibenzothiophene Using Chlorine Dioxide

\*Yusuke SHIMADA<sup>1</sup>, Haruyasu ASAHARA<sup>1</sup>, Tsuyoshi INOUE<sup>1</sup>, Kei OHKUBO<sup>2,3</sup> (1. Osaka Univ., 2. Osaka Univ. IACS, 3. Osaka Univ. OTRI)

[1P29★] Effect of surface hydroxyl groups on the adsorption and photodegradation of dyes by composite photocatalysts

\*Yuga ASANO<sup>1</sup>, Morio NAGATA<sup>1</sup> (1. Tokyo Univ. of Sci.)

[1P30★E] Elucidation of the effect of type-II electron transfer on photocatalytic hydrogen production

\*Haruki NAGAKAWA<sup>1</sup>, Morio NAGATA<sup>1</sup> (1. Tokyo Univ. Sci.)

[1P31★E] Investigation on pseudo-overpotentials of heterogeneous nanoparticles for water oxidation by Ru(II) photosensitizers

\*Megumi OKAZAKI<sup>1</sup>, Yasuomi YAMAZAKI<sup>2</sup>, Osamu ISHITANI<sup>1</sup>, Kazuhiko MAEDA<sup>1</sup> (1. Fac. of Sci., Tokyo Inst. Tech., 2. Fac. of Sci. and Eng., Seikei Univ.)

[1P32★E] Investigation of LMCT excited states on the luminescent properties of Eu(III) complexes with carbazole frameworks

\*Kota AIKAWA<sup>1</sup>, Yuichi KITAGAWA<sup>2,3</sup>, Sunao SHOJI<sup>2,3</sup>, Koji FUSHIMI<sup>2</sup>, Yasuchika HASEGAWA<sup>2,3</sup> (1. Grad. Sch. Chem. Eng., Hokkaido Univ., 2. Fac. of Eng., Hokkaido Univ., 3. WPI-ICReDD, Hokkaido Univ.)

[1P33★] Experimental and Theoretical Investigation of a Fused Ferrocene-bridged Peryleneimide Dimer

\*Hirofumi MORIMOTO<sup>1</sup>, Kyohei MATSUO<sup>1</sup>, Hiroko YAMADA<sup>1</sup>, Naoki ARATANI<sup>1</sup> (1. Nara Inst. of Sci. and Tech.)

[1P34★E] Fluorescence changes of dibenzoylmethanato boron difluoride complex with aggregation-induced emission property during the evaporative crystallization.

\*Yushi FUJIMOTO<sup>1</sup>, Yoshifumi MOCHIDUKI<sup>2</sup>, Fuyuki ITO<sup>1,2</sup> (1. Grad. Sch. of Sci. and Tech., Shinshu Univ. , 2. Inst. of Edu., Shinshu Univ.)

[1P35★E] Mechanically Modulated Emission from Perovskite Quantum Dot Assemblies

\*Zhijing ZHANG<sup>1,2</sup>, Takuya OKAMOTO<sup>2</sup>, Vasdevan Pillai BIJU<sup>1,2</sup> (1. Fac. of Env., Hokkaido Univ., 2. RISE, Hokkaido Univ. )

[1P36★E] A Cyanine Based Molecular Rotor Probe for Colorimetric and Fluorimetric Sensing of Heparin.

\*Shrishti P. PANDEY<sup>1,2</sup>, Pamela JHA<sup>1</sup>, Prabhat K. SINGH<sup>2,3</sup> (1. Amity Univ. Mumbai, India 2. Radiation & Photochemistry Division, Bhabha Atomic Research Centre, Mumbai, India, 3. Homi Bhabha National Inst., Anushaktinagar, Mumbai, India)

[1P37★] Plasmon-Assisted Fabrication of Periodic Chiral Nanostructures

\*Toru HOMMA<sup>1</sup>, Takuya ISHIDA<sup>1</sup>, Tetsu TATSUMA<sup>1</sup> (1. IIS, Univ. of Tokyo)

[1P38★] Chiroptical Properties of Plasmonic Nanostructures with Different Morphologies

\*Yuma NAKANE<sup>1</sup>, Takuya ISHIDA<sup>1</sup>, Tetsu Tatsuma<sup>1</sup> (1. IIS, Univ. of Tokyo)

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[1P39★] Enhancement of modal strong coupling strength with high particle number density of gold nanoparticles using self-assembly method

\*Yoshiki SUGANAMI<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Hideyuki MITOMO<sup>1,3</sup>, Xu SHI<sup>2</sup>, Hiroaki MISAWA<sup>1,4</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. GI-CoRE, Hokkaido Univ., 4. National Yang Ming Chiao Tung Univ.)

[1P40★E] Functionalization of Plasmonic Cathode Electrodes using Molecular Catalyst

\*Ryoji SUZUKI<sup>1</sup>, Hiro MINAMIMOTO<sup>2</sup>, Kei MURAKOSHI<sup>2</sup> (1. Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 2. Grad. Sch. of Sci., Hokkaido Univ.)

[1P41★E] *trans* → *cis* and *cis* → *trans* photochromic isomerization of Indigo derivatives studied by global analysis

\*Yu KIHARA<sup>1</sup>, Yamato HIGASHI<sup>1</sup>, Shuntaro TANI<sup>2</sup>, Yutaka NAGASAWA<sup>2</sup> (1. Fac. of Sci. Ritsumeikan Univ., 2. Fac. of Sci. Ritsumeikan Univ.)

[1P42★E] Hot Electron Transfer Dynamics of CdSe/ZnS Quantum Dots-Fullerene Systems

\*Yuki TAGA<sup>1</sup>, Kousuke TSUJI<sup>1</sup>, Daichi EGUCHI<sup>1</sup>, Naoto TAMAI<sup>1</sup> (1. Kwansei Gakuin Univ.)

[1P43★] S<sub>2</sub> Emission Enhancement of Cationic Metalloporphyrin Adsorbed on the Inorganic Nanosheet

\*Maina NASHIMOTO<sup>1</sup>, Takuya FUJIMURA<sup>1</sup>, Ryo SASAI<sup>1</sup> (1. Grad. of Nat. Sci. Tech., Shimane Univ.)

[1P44★] Guest exchange behavior and vapochromism properties in porous charge-transfer complexes

\*Satoshi FUKUTOMI<sup>1</sup>, Toshikazu ONO<sup>1,2</sup>, Yoshio HISAEDA<sup>1,2</sup> (1. Grad. Sch. of Eng., Kyushu Univ., 2. CMS Kyushu Univ.)

[1P45★E] Multimodal Detection of Circulating Tumor Cells Using Multifunctional Silica Particles

\*Jeladhara SOBHANAN<sup>1</sup>, Yuta TAKANO<sup>1</sup>, Vasudevanpillai BIJU<sup>1</sup> (1. Hokkaido Univ.)

[1P46★] Thiouridine Derivative with a Pyrenylethynyl Group and its Excited State Dynamics

\*Taiki MATSUOKA<sup>1</sup>, Wataru KASHIHARA<sup>1</sup>, Tadashi SUZUKI<sup>1</sup> (1. Grad. Sch. Sci. Eng., Aoyama Gakuin Univ.)

[1P47★E] Isomerization dynamics of the excited-states intramolecular proton transfer molecule with luminescent property

\*Tomohiro RYU<sup>1</sup>, Aya TACHIBANA<sup>1</sup>, Kiyoshi MIYATA<sup>1</sup>, Toshiki MUTAI<sup>2</sup>, Ken ONDA<sup>1</sup> (1. Fac. of Sci., Kyushu Univ., 2. IIS, The Univ. of Tokyo)

[1P48★] Substituent effects of rubrene derivatives on solid-state near-infrared triplet-triplet annihilation photon upconversion and their mechanisms

\*Akane SAWA<sup>1,2</sup>, Neeti TRIPATHI<sup>1</sup>, Claire HECK<sup>1</sup>, Toshiko MIZOKURO<sup>3</sup>, Hiroaki TACHIBANA<sup>3</sup>, Naoto TAMAI<sup>2</sup>, Daiki KUZUHARA<sup>4</sup>, Hiroko YAMADA<sup>5</sup>, Kenji KAMADA<sup>1,2</sup> (1. NMRI, AIST, 2. Grad. Sch. of Sci. & Tech., Kwansei Gakuin Univ., 3. RIAEP, AIST, 4. Dep. of Phys. Sci. and Mater. Eng., Iwate Univ., 5. Grad. Sch. of Mater. Sci., NAIST)

[1P49★E] In-water triplet dynamic nuclear polarization of nanocrystals prepared by reprecipitation method

\*Naoto MATSUMOTO<sup>1</sup>, Koki NISHIMURA<sup>1</sup>, Kenichiro TATEISHI<sup>3</sup>, Tomohiro UESAKA<sup>3</sup>, Nobuo KIMIZUKA<sup>1,2</sup>, Nobuhiro YANAI<sup>1,2,4</sup> (1. Grad. Sch. of Eng., Kyushu Univ., 2. CMS, Kyushu Univ., 3. RIKEN Nishina Center for Accelerator-Based Science, 4. PRESTO, JST)

[1P50] High-speed Bending of Anisole Crystals Based on Photothermal Effect and Natural Vibration

\*Yuki HAGIWARA<sup>1</sup>, Shodai HASEBE<sup>1</sup>, Meguya RYU<sup>2</sup>, Hiroki FUJISAWA<sup>3</sup>, Junko MORIKAWA<sup>3</sup>, Toru ASAHI<sup>1,4</sup>, Hideko KOSHIMA<sup>4</sup> (1. Grad. Sch. of Adv. Sci. and Eng., Waseda Univ., 2. Res. Inst. for Mat. and Chem. Measurement, AIST, 3. Sch. Mat. Chem. Tech., Tokyo Inst. Tech., 4. Res. Org. Nano Life Innov., Waseda Univ.)

[1P51★E] Color variants of photoluminescent polymer dots doped with iridium complexes

\*Zuoyue LIU<sup>1</sup>, Guillem PRATX<sup>2</sup>, Mamoru FUJITSUKA<sup>1</sup>, Yasuko OSAKADA<sup>1,3</sup> (1. SANKEN, Osaka Univ., 2. Stanford Univ., 3. Ins. for Adv. Co-Cre., Osaka Univ.)

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[1P52★] Photophysical properties of fluorescent dye in polystyrene colloidal crystal showing structural color

\*Ayumi YOSHIDA<sup>1</sup>, Norihisa KOBAYASHI<sup>1</sup>, Kazuki NAKAMURA<sup>1</sup> (1. Chiba Univ.)

[1P53★] Effect of Surrounding Hydrogels on Photomechanical Behaviors of Azobenzene-based Molecular Glass Particles

\*Motona MATSUBARA<sup>1</sup>, Hiroyasu UKAI<sup>1</sup>, Masahiro KURAGANO<sup>1</sup>, Kiyotaka TOKURAKU<sup>1</sup>, Hideyuki NAKANO<sup>1</sup> (1. Muroran Inst. Tech.)

[1P54★] Photoluminescence photoswitching of perovskite quantum dots by having photochromic diarylethene ligands

\*Ashkan MOKHTAR<sup>1</sup>, Ryuki MORINAGA<sup>1</sup>, Yuji AKAISHI<sup>1</sup>, Sunnam KIM<sup>1</sup>, Seiji KURIHARA<sup>1</sup>, Tetsuya KIDA<sup>1</sup>, Tsuyoshi FUKAMINATO<sup>1</sup> (1. Kumamoto Univ.)

[1P55★E] Experimental Evaluation of Biradical Character from Reactivity of Radical Recombination Reaction

\*Moe NISHIJIMA<sup>1</sup>, Katsuya MUTOH<sup>1</sup>, Jiro ABE<sup>1</sup> (1. Aoyama Gakuin Univ.)

[1P56★E] Photochromism of Biaryl-bridged imidazole dimers with Different Types of Aryl Unit in the Bridging Unit

\*Hiroki ITO<sup>1</sup>, Katsuya MUTOH<sup>1</sup>, Jiro ABE<sup>1</sup> (1. Aoyama Gakuin Univ.)

[1P57★E] Mechanistic Studies on Temperature Dependence of Photochromism of Cu-Doped ZnS Nanocrystals

\*Yusuke SANADA<sup>1</sup>, Yoichi KOBAYASHI<sup>1</sup> (1. Fac. of Life Sci., Ritsumeikan Univ.)

[1P58★] Porphyrin oligomer/semiconductor film for water oxidation into hydrogen peroxide by one-photon of visible light

\*Ryosuke NAKAZATO<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Tamao ISHIDA<sup>1,2</sup>, Hiroshi TACHIBANA<sup>1</sup>, Shinsuke TAKAGI<sup>1,2</sup>, Haruo INOUE<sup>1,2</sup> (1. Grad. Sch. of Urban Environ. Sci., Tokyo Metropolitan Univ., 2. ReHES, Tokyo Metropolitan Univ.)

[1P59★] Surface metal ion dependence of dye-double-layered nanoparticle photocatalyst in photocatalytic hydrogen evolution reaction

\*Nobutaka YOSHIMURA<sup>1</sup>, Masaki YOSHIDA<sup>2</sup>, Masako KATO<sup>2,3</sup>, Atsushi KOBAYASHI<sup>2</sup> (1. Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 2. Grad. Sch. of Sci., Hokkaido Univ., 3. Dept. of Appl. Chem. for Environment, Kwansei Gakuin Univ.)

[1P60★E] Synthesis and photocatalytic improvement of metal-porphyrin containing nanodisks from covalent organic frameworks

\*Xinxi LI<sup>1</sup>, Guedes ARNAUD<sup>1</sup>, Kota NOMURA<sup>1</sup>, Yasuko OSAKADA<sup>1,2</sup>, Mamoru FUJITSUKA<sup>1</sup> (1. SANKEN, Osaka Univ., 2. IACS, Osaka Univ.)

[1P61★] Synthesis of and characterization of hyper-crosslinked polymer of hydroxybenzenes for photocatalytic production of hydrogen peroxide

\*Toru HORIUCHI<sup>1</sup>, Hisanao USAMI<sup>1</sup> (1. Fac. of Textile Sci. & Tech., Shinshu Univ.)

[1P62★E] Light-Driven Rapid Peeling of Photochromic Diarylethene Single Crystals

\*Masato TAMAOKI<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Grad. Sch. of Eng., Osaka City Univ.)

[1P63★] Solid-state Emitting Properties of Cyanostilbene-based Amorphous Molecular Materials with Different Methylene Chain Lengths

\*Hiroya FUKUFHIMA<sup>1</sup>, Kensuke MORI<sup>1</sup>, Yoshimitsu SAGARA<sup>2</sup>, Kenta KOKADO<sup>3</sup>, Takayoshi NAKAMURA<sup>3</sup>, Nobuyuki TAMAOKI<sup>3</sup>, Hideyuki NAKANO<sup>1</sup> (1. Muroran Inst. Tech., 2. TITEC, 3. RIES, Hokkaido Univ.)

[1P64★] Control of molecular arrangements in solid state of organic salts composed of sulfonic acids with thiophene frameworks and alkylamines, and their photoelectric properties.

\*Ryota AKAI<sup>1</sup>, Ryunosuke NISHIDA<sup>1</sup>, Norimitsu TOHNAI<sup>1</sup> (1. Grad. Sch. of Eng., Osaka Univ.)

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[1P65★] Regulation of molecular arrangements and photoluminescence properties of charge-transfer crystals with tetracyanobenzene and organic salts composed of anthracene disulfonic acid and amines.

\*Yo KINOSHITA<sup>1</sup>, Hiromi NAKAJIMA<sup>1</sup>, Norimitsu TOHNAI<sup>1</sup> (1. Grad. Sch. of Eng., Osaka Univ.)

[1P66★E] Synthesis of highly luminescent Ag-Na-Ga-In-S quantum dots and their application to electroluminescence devices

\*Makoto TOZAWA<sup>1</sup>, Chie MIYAMAE<sup>1</sup>, Genichi MOTOMURA<sup>2,3</sup>, Yukiko IWASAKI<sup>3</sup>, Toshimitsu TSUZUKI<sup>3</sup>, Tatsuya KAMEYAMA<sup>1</sup>, Taro UEMATSU<sup>2</sup>, Susumu KUWABATA<sup>2</sup>, Tsukasa TORIMOTO<sup>1</sup> (1. Grad. Sch. of Eng., Nagoya Univ., 2. Grad. Sch. of Eng., Osaka Univ., 3. NHK STRL)

[1P67★E] Solution-phase Preparation of Cu-In-Ga-S Quantum Dots and Their Composition-dependent Optical Properties

\*Chang JIANG<sup>1</sup>, Tatsuya KAMEYAMA<sup>1</sup>, Taro UEMATSU<sup>2</sup>, Susumu KUWABATA<sup>2</sup>, Tsukasa TORIMOTO<sup>1</sup> (1. Fac. of Eng., Nagoya Univ., 2. Fac. of Eng., Osaka Univ.)

[1P68★] Aggregation control of metal phthalocyanine by clay nanosheet and photogeneration of singlet oxygen

\*Kazuya OKADA<sup>1</sup>, Kazuki ARITA<sup>2</sup>, Masatoshi NISHIGUCHI<sup>1</sup>, Takuya FUJIMURA<sup>1</sup>, Takahisa IKEUE<sup>1</sup>, Ryo SASAI<sup>1</sup> (1. Grad. of Nat. Sci. Tech., Shimane Univ., 2. Fac. of Sci., Shimane Univ.)

[1P69] Development of therapeutic agents for photodynamic therapy using osmium polypyridyl complex that can be excited by near-infrared light.

\*Masaki TAKAHASHI<sup>1</sup>, Asao NAKAMURA<sup>1</sup>, Kosuke TAKEI<sup>1</sup> (1. Shibaura Inst. Tech.)

[1P70] Photon Upconversion Utilizing Triplet Energy Harvesting and Intramolecular TTA in the Thin Film

\*Takumi TAKAHASHI<sup>1</sup>, Yasunori MATSUI<sup>1,2</sup>, Masaya KANO<sup>1</sup>, Kiyomasa HONDA<sup>1</sup>, Takuya OGAKI<sup>1,2</sup>, Eisuke OHTA<sup>1,2</sup>, Hiroshi IKEDA<sup>1,2</sup> (1. Grad. Sch. of Eng., Osaka Pref. Univ., 2. RIMED, Osaka Pref. Univ.)

[1P71] Luminescence properties of an aqueous suspension containing layered clay material and triplet-triplet annihilation upconverting dyes

\*Honoka MAKIDA<sup>1</sup>, Yosuke KAGESHIMA<sup>1</sup>, Katsuya TESHIMA<sup>1</sup>, Hiromasa NISHIKIORI<sup>1</sup> (1. Fac. of Eng., Shinshu Univ.)

[1P72] Binding of Ruthenium (II) Dipyrrophenazine Complex Enantiomers to Amyloid- $\beta$  Fibrils

\*Utana UMEZAKI<sup>1</sup>, Bo JIANG<sup>1</sup>, Angel MARTI<sup>1</sup> (1. Dept. of Chem., Rice Univ.)

[1P73] Photoinduced electron transport across vesicle membranes sensitized by an Ir complex: the use of different membrane-forming amphiphiles and buffer solutions

\*Shin-ya TAKIZAWA<sup>1</sup>, Keiya MATSUNAGA<sup>1</sup>, Shigeru MURATA<sup>1</sup> (1. Grad. Sch. of Arts and Sci., The Univ. of Tokyo)

[1P74] Effects of defects in photocatalyst powder on the photocarrier dynamics

\*Kosaku KATO<sup>1</sup>, Akira YAMAKATA<sup>1</sup> (1. Toyota Tech. Inst.)

[1P75] Magnetic circularly polarized luminescence (MCPL) from achiral solid-state inorganic luminophore containing europium and terbium.

\*Takahiro KIMOTO<sup>1</sup>, Mako OKUNO<sup>1</sup>, Naoyoshi NUNOTANI<sup>2</sup>, Nobuhito IMANAKA<sup>2</sup>, Yoshitane IMAI<sup>1</sup> (1. Grad. Sch. Sci. Eng., Kindai Univ., 2. Grad. Sch. Eng., Osaka Univ.)

[1P76] Development of visible light-excitable fluorescent nucleus staining reagents for *in vivo* nucleus imaging

\*Aya SHIMAZU<sup>1</sup>, Shuichi SHIOZAKI<sup>1</sup>, Seiji TOBITA<sup>1</sup>, Toshitada YOSHIHARA<sup>1</sup> (1. Grad. of Sci. and Tech., Gunma Univ.)

[1P77] Intracellular behavior of fluorescent cholesterol using a fluorescence lifetime imaging microscope

\*Kiyosuke TOSAKA<sup>1</sup>, Shuichi SHIOZAKI<sup>1</sup>, Seiji TOBITA<sup>1</sup>, Toshitada YOSHIHARA<sup>1</sup> (1. Grad. of Sci. and Tech., Gunma Univ.)

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[1P78] Microviscosity measurements of capillary blood vessels using a water-soluble viscosity probe and a fluorescence lifetime imaging microscope

\*Ryo EHARA<sup>1</sup>, Yuika SUZUKI<sup>1</sup>, Shuichi SHIOZAKI<sup>1</sup>, Seiji TOBITA<sup>1</sup>, Toshitada YOSHIHARA<sup>1</sup> (1. Grad. of Sci. and Tech., Gunma Univ.)

[1P79] Measurements of oxygen partial pressure of living tissues using Ir(III) complexes with benzothienyl pyridine ligands

\*Seina HIRAKATA<sup>1</sup>, Kiichi MIZUKAMI<sup>1</sup>, Shuichi SHIOZAKI<sup>1</sup>, Seiji TOBITA<sup>1</sup>, Toshitada YOSHIHARA<sup>1</sup> (1. Grad. of Sci. and Tech., Gunma Univ.)

[1P80] Development of vascular endothelial imaging reagents based on oligoarginine peptides labeled with green fluorophores

\*Sakura SUMI<sup>1</sup>, Mami YASUKAGAWA<sup>1</sup>, Shuichi SHIOZAKI<sup>1</sup>, Seiji TOBITA<sup>1</sup>, Toshitada YOSHIHARA<sup>1</sup> (1. Grad. of Sci. and Tech., Gunma Univ.)

[1P81] Development of endoplasmic reticulum-selective phosphorescent Ir complexes with high cellular uptake efficiencies by introducing hydroxy groups

\*Emu SAGUCHI<sup>1</sup>, Shuichi SHIOZAKI<sup>1</sup>, Seiji TOBITA<sup>1</sup>, Toshitada YOSHIHARA<sup>1</sup> (1. Grad. of Sci. and Tech., Gunma Univ.)

[1P82] Effects of the Substitution Number of Aminoindoles on Triple pH Responses Photosensitizers for photodynamic Therapy

\*Hayato KANIWA<sup>1</sup>, Hiroaki HORIUCHI<sup>1</sup>, Kazuya TAJIMA<sup>1</sup>, Tetsuo OKUTSU<sup>1</sup> (1. Gunma Univ.)

[1P83] Activation mechanism of triply pH-activatable photosensitizer for near-infrared photodynamic therapy and diagnosis

\*Yuki KOJIMA<sup>1</sup>, Hiroaki HORIUCHI<sup>1</sup>, Kazuya TAJIMA<sup>1</sup>, Tetsuo OKUTSU<sup>1</sup> (1. Gunma Univ.)

[1P84] Production of H<sub>2</sub>O<sub>2</sub> using ZnO photocatalyst

\*Todai SUZUKI<sup>1</sup>, Yoshinori MURAKAMI<sup>1</sup> (1. NIT, Nagaoka College)

[1P85] Investigation on electron transfer on clay nanosheet for water splitting system

\*Ryota SHIMADA<sup>1</sup>, Yutaka OHSAKI<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Tamao ISHIDA<sup>1,2</sup>, Shinsuke TAKAGI<sup>1,2</sup> (1. Tokyo Metropolitan Univ., 2. Research Center for Hydrogen Energy-based Society)

[1P86] Temperature dependence of hole dynamics in dye-doped photoconductive polymer film

\*Mariko YATSUSHIRO<sup>1</sup>, Tomoaki MIURA<sup>1</sup>, Tadaaki IKOMA<sup>1</sup> (1. Niigata Univ. Grad. Sch. of Sci. & Tech.)

[1P87] Oxidation of trivalent americium in nitric acid induced by multiphoton excitation via an f-f transition

\*Shohei MATSUDA<sup>1</sup>, Keiichi YOKOYAMA<sup>1</sup>, Tsuyoshi YAITA<sup>1</sup>, Tohru KOBAYASHI<sup>1</sup>, Nobuaki NAKASHIMA<sup>2,3</sup> (1. JAEA, 2. Osaka City Univ., 3. Inst. for Laser Tech.)

[1P88] Excited states of fluorescent azafluoranthene derivatives

\*Tomoka YOSHIKAWA<sup>1</sup>, Wataru KASHIHARA<sup>1</sup>, Tadashi SUZUKI<sup>1</sup>, Hitomi OHMAGARI<sup>1</sup>, Takahiro SAWANO<sup>1</sup>, Miki HASEGAWA<sup>1</sup>, Ryo TAKEUCHI<sup>1</sup> (1. Grad. Sch. Sci. Eng., Aoyama Gakuin Univ.)

[1P89] Estimation of luminescence quantum yield of TiO<sub>2</sub> photocatalyst powders

\*Kazunari TAKAHASHI<sup>1</sup>, Ryuzi KATOH<sup>1</sup> (1. Nihon Univ.)

[1P90] Reduction and Precipitation of Aqueous Europium (III) under Air Atmosphere by Near-Infrared Femtosecond Laser Pulses

Kazuya TAMEJIMA<sup>1</sup>, Nobuaki NAKASHIMA<sup>1</sup>, Kenji SAKOTA<sup>1</sup>, \*Tomoyuki YATSUHASHI<sup>1</sup> (1. Grad. Sch. of Sci., Osaka City Univ.)

[1P91★] Highly Selective Synthesis of  $\gamma$ -Ketonitrile Using Visible Light Responsive Titanium Dioxide

\*Hina KATSUYAMA<sup>1</sup>, Keita SHICHIJO<sup>1</sup>, Yoshio HISAEDA<sup>1</sup>, Hisashi SHIMAKOSHI<sup>1</sup> (1. Kyushu Univ.)

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## Poster Session 2

**Wed. Sep 15, 2021 12:40 PM - 2:20 PM**

[2P01] Photophysical and Photovoltaic Properties of Regioselectively Brominated ITIC

\*Tatsuho WADA<sup>1</sup>, Yui FUJIMARU<sup>1</sup>, Tomokazu UMEYAMA<sup>3</sup>, Hiroshi IMAHORI<sup>1,2</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. WPI-iCeMS, Kyoto Univ., 3. Grad. Sch. of Eng., Univ. of Hyogo)

[2P02] Photovoltaic properties of p-type dye-sensitized solar cell with push-pull type porphyrin-fullerene dyad

\*Qi GUO<sup>1</sup>, Tomohiro HIGASHINO<sup>1</sup>, Hiroshi IMAHORI<sup>1,2</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. WPI-iCeMS, Kyoto Univ.)

[2P03] Development of bio-solar cells with redox polymer

\*Naoya OBATA<sup>1</sup> (1. Tokyo Univ. of Sci.)

[2P04] Highly Soluble and Fluorescent New Diphenylhexatrienes with Trifluoromethyl Substituents

\*Yoriko SONODA<sup>1</sup> (1. AIST)

[2P05] Modulation of circularly polarized luminescence properties of cyclodextrin derivatives by guest inclusion.

\*Shintaro YAMADA<sup>1</sup>, Hajime SHIGEMITSU<sup>1</sup>, Kosei KAWAKAMI<sup>1</sup>, Tadashi MORI<sup>1</sup>, Toshiyuki KIDA<sup>1</sup> (1. Osaka Univ.)

[2P06] Synthesis and room-temperature phosphorescence properties of fluorinated diphenylacetylene

\*Masato MORITA<sup>1</sup>, Shigeyuki YAMADA<sup>1</sup>, Tsutomu KONNO<sup>1</sup> (1. Kyoto Inst. of Tech.)

[2P07] Supramolecular Polymers Exhibiting Distinct Higher-Order Structures and Fluorescence Properties Depending on Packing Structures

\*Yuta SATO<sup>1</sup>, Hayato OUCHI<sup>2</sup>, Shiki YAGAI<sup>3</sup> (1. Grad. Sch. of Eng. and Sci., Chiba Univ., 2. OIST, 3. IGPR, Chiba Univ.)

[2P08] Synthesis and Photophysical Properties of Anthra[2,3-*b*]phosphole Derivatives

\*Yuta KUDOH<sup>1</sup>, Yoshihiro MATANO<sup>1</sup> (1. Fac. of Sci., Niigata Univ.)

[2P09] Synthesis and optical properties of thiophene- and pyrrole-fused porphyrins

\*Rikiya IIZUMI<sup>1</sup>, Tomihoro HIGASHINO<sup>1</sup>, Hiroshi IMAHORI<sup>1</sup> (1. Grad. Sch. Eng., Kyoto Univ.)

[2P10] Inclusion of anthracene derivatives with cyclodextrins and their optical properties in solid state

\*Yuna KAKIMOTO<sup>1</sup>, Yoshitane IMAI<sup>2</sup>, Eiji NAKATA<sup>3</sup>, Hiroshi TAKASHIMA<sup>1</sup> (1. Nara Women's Univ., 2. Kindai Univ., 3. Kyoto Univ.)

[2P11] ESIPT fluorescence properties of phthalimides incorporating sulfonamide as the proton donor

\*Aoi TATSUKI<sup>1</sup>, Kazumasa ITANI<sup>1</sup>, Minoru YAMAJI<sup>2</sup>, Hideki OKAMOTO<sup>1</sup> (1. Okayama Univ., 2. Gunma Univ.)

[2P12] Unusual visible light fluorescence of aminoalkoxydioxaborolanes with phenyl moieties

\*Akira TAKAHASHI<sup>1</sup>, Kim Jin WONG<sup>1</sup>, Sena HASHIMOTO<sup>1,2</sup>, Izumi IWAKURA<sup>1</sup>, Atsushi KAMEYAMA<sup>1</sup> (1. Fac. of Eng., Kanagawa Univ., 2. Fac. of Eng., Yokohama Natl.Univ.)

[2P13] Synthesis and photoluminescence property evaluation of fluorinated hexaarylbenzene derivatives

\*Yizhou WANG<sup>1</sup>, Masato MORITA<sup>1</sup>, Shigeyuki YAMADA<sup>1</sup>, Tsutomu KONNO<sup>1</sup> (1. Kyoto Inst. of Tech.)

[2P14] Novel synthesis and photoluminescence evaluation of fluorinated diphenylacetylene derivatives with an amine-based electron-donor moiety

\*Kazuki KOBAYASHI<sup>1</sup>, Shigeyuki YAMADA<sup>1</sup>, Tsutomu KONNO<sup>1</sup> (1. Kyoto Inst. of Tech.)

[2P15] Photoluminescence evaluation of novel tricyclic compounds having a tetrafluorocyclohexa-1,3-diene backbone

\*Haruka OHSATO<sup>1</sup>, Shigeyuki YAMADA<sup>1</sup>, Tsutomu KONNO<sup>1</sup> (1. Kyoto Inst. of Tech.)

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[2P16] Chiroptical Properties of Pyrene Derivatives Symmetrically Substituted with Hexahydromethanobenzocyclobutane Units

\*Kosuke SAITO<sup>1</sup>, Tadashi MORI<sup>1</sup> (1. Chem. of Eng., Osaka Univ.)

[2P17] Synthesis and circularly polarized luminescence (CPL) study of chiral pyrene dimer

\*Sadikshya PANDEY<sup>1</sup>, Tomonori KAKIZAKI<sup>1</sup>, Masaki NISHIJIMA<sup>1</sup>, Yasuyuki ARAKI<sup>1</sup>, Reiko ODA<sup>2</sup>, Takehiko WADA<sup>1</sup> (1. IMRAM, Tohoku Univ., 2. IECB, Univ. of Bordeaux)

[2P18] Visible-light-induced decarboxylative radical reactions of benzoic acids

\*Yasuhiro NACHI<sup>1</sup>, Yasuharu YOSHIMI<sup>1</sup> (1. Grad. Sch. of Eng., Univ. of Fukui)

[2P19] Photochemical reaction of a quinuclidine derivative having an  $\alpha$ -ketoamide group

\*Riho MIYAMOTO<sup>1</sup>, Shinji YAMADA<sup>1</sup> (1. Ochanomizu university)

[2P20] Photochemical Synthesis and Application of Quinone Imine Derivative from Carbonyl Azide and Quinone

\*Kan WAKAMATSU<sup>1</sup>, Sho TANABE<sup>1</sup>, Haruo YAMADA<sup>1</sup> (1. Fac. of Sci., Okayama Univ. of Sci.)

[2P21] Visible light promoted reductive transformation of organic molecules by using polycyclic aryl-substituted benzimidazolines and benzimidazoliums

\*Ryo MIYAJIMA<sup>1</sup>, Eietsu HASEGAWA<sup>2</sup> (1. Grad. School of Sci, Niigata Univ., 2. Fac. of Sci., Niigata Univ.)

[2P22] Selective [2+2] photocycloaddition of  $\alpha,\beta$ -unsaturated iminium salts controlled by cation- $\pi$  interaction.

\*Yuka HONDA<sup>1</sup>, Shinji YAMADA<sup>1</sup> (1. Ochanomizu Univ.)

[2P23] Photoinduced Cyclization of 2-Methylbiphenyls with Iron Catalyst

\*Yuki ITABASHI<sup>1</sup>, Kei OHKUBO<sup>1,2</sup> (1. OTRI, Osaka Univ., 2. IACS, Osaka Univ.)

[2P24] The trapping of carbon radicals generated by cooperative photocatalytic systems containing benzimidazolium aryloxide photocatalysts

\*Takehiro KIUCHI<sup>1</sup>, Tsukasa TANAKA<sup>1</sup>, Eietsu HASEGAWA<sup>2</sup> (1. Grad. School of Sci. and Tech., Niigata Univ., 2. Fac. of Sci., Niigata Univ.)

[2P25] Design and Synthesis of New Two-Photon Responsive Caged Calcium Compound Using Octupolar System

\*Linh Tran Bao NGUYEN<sup>1</sup>, Manabu ABE<sup>1</sup> (1. Grad. Sch. of Adv. Sci. and Eng., Hiroshima Univ.)

[2P26] Organophotoredox catalyzed [4+2] cycloaddition reactions of o-quinone methides via one electron oxidation

\*Kenta TANAKA<sup>1</sup>, Naoya YAMAGUCHI<sup>1</sup>, Suguru IWAI<sup>1</sup>, Yujiro HOSHINO<sup>1</sup> (1. Grad. Env. Info. Sci., Yokohama Natl. Univ.)

[2P27] Singlet Oxygen Caging, Releasing, and Optical Sensing by Photo-Excited State Engineering in an Aminomethyl anthracene-Coumarin Linked molecule

\*Yuta TAKANO<sup>1,2</sup>, Devika SASIKUMAR<sup>1,2</sup>, Hanjun ZHAO<sup>2</sup>, Reiko KOHARA<sup>2</sup>, Morihiko HAMADA<sup>3,4</sup>, Yasuhiro KOBORI<sup>3</sup>, Vasudevanpillai BIJU<sup>1,2</sup> (1. RIES, Hokkaido Univ., 2. Env.Sci, Hokkaido Univ., 3. MPRC, Kobe Univ., 4. Kobe College Tech.)

[2P28] Dual emission of Si<sup>IV</sup> corrole  $\mu$ -oxo-bridged dimers

\*Kyo YAMAGATA<sup>1</sup>, Akihito NAKAI<sup>1</sup>, Kento UETA, Atsuhiko OSUKA, Takayuki TANAKA<sup>1</sup> (1. Fac. of Sci., Kyoto Univ.)

[2P29] Synthesis and Intramolecular Singlet Fission of Ferrocene-Bridged Pentacene Dimers

[2P30] Long-Range Intramolecular Singlet Fission in Pentacene Dimers Bridged by Polyynes

\*Hayato SAKAI<sup>1</sup>, Masaaki FUKI<sup>2</sup>, Nikolai TKACHENKO<sup>3</sup>, Yasuhiro KOBORI<sup>2</sup>, Taku HASOBE<sup>1</sup> (1. Fac. Sci. Tech., Keio Univ., 2. Molecular Photoscience Research Center, Kobe Univ., 3. Tampere Univ.)



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[2P31] Ammonia treatment in water with a combination of Titanium dioxide supported zeolite composite photocatalyst and nitrifying bacteria

\*Sakuya MATSUMOTO<sup>1</sup> (1. Tokyo Univ. of Sci. )

[2P32] Photooxidation of water to hydrogen peroxide catalyzed by germanium-N-confused porphyrin/TiO<sub>2</sub> electrode

\*Jyoshua SENOKUCHI<sup>1</sup>, Yu NABETANI<sup>1</sup>, Tsutomu SHIRAGAMI<sup>1</sup> (1. Univ. of Miyazaki)

[2P33] Construction of surface reaction fields through titanium oxide modification for enhanced photoelectrochemical performances of the particulate photoanodes for oxygen evolution

\*Fumiaki TAKAGI<sup>1</sup>, Suzuna TAGUCHI<sup>1</sup>, Yosuke KAGESHIMA<sup>1,2</sup>, Katsuya TESHIMA<sup>1,2</sup>, Kazunari DOMEN<sup>2</sup>, Hiromasa NISHIKIORI<sup>1,2</sup> (1. Grad. Sch. of Eng., Shinshu Univ., 2. Research Initiative for Supra-Materials (RISM), Shinshu Univ.)

[2P34] Visible-light absorption of emissive heteroleptic Cu(I)-phenanthroline-complex photosensitizer bearing thiazole derivatives

\*Hiroyuki TAKEDA<sup>1,2</sup>, Makoto SHIMO<sup>1</sup>, Gai YASUHARA<sup>1</sup>, Ken KOBORI<sup>1</sup>, Motoko S. ASANO<sup>1</sup>, Yutaka AMAO<sup>2</sup> (1. Fac. of Sci. and Tech., Gunma Univ., 2. Recap, Osaka City Univ.)

[2P35] Improvement of photovoltaic performances of the photoelectrochemical cell through surface modification of ZnxCd<sub>1-x</sub>Se nanowire photoanodes

\*Mika NISHIZAWA<sup>1</sup>, Yosuke KAGESHIMA<sup>1</sup>, Katsuya TESHIMA<sup>1</sup>, Kazunari DOMEN<sup>1</sup>, Hiromasa NISHIKIORI<sup>1</sup> (1. Fac. of Engi., Shinshu Univ.)

[2P36] Fabrication of solid-state Dye-Sensitized Solar Cells and investigation of dyes used

\*Shuji KAYANUMA<sup>1</sup> (1. Tokyo Univ. of Sci.)

[2P37] Improving the Thermal Stability of Perovskite Solar Cells for Space Applications

\*Naoki KIYOTA<sup>1</sup> (1. Tokyo Univ. of Sci.)

[2P38] Near-IR emission and time-resolved EPR in Pt(II)-bodipy diads

Ken KOBORI<sup>1</sup>, \*Motoko S. ASANO<sup>1</sup>, Yuqi HOU<sup>2</sup>, Jianzhang ZHAO<sup>2</sup> (1. Gunma Univ., 2. Dalian Univ. of Tech.)

[2P39] Diffusion length of triplet excitons in triplet-triplet annihilation photon upconversion in the presence of silver nanostructures

\*Soichiro SHIMA<sup>1</sup>, Shun OMAGARI<sup>1</sup>, Martin VACHA<sup>1</sup> (1. Sch. of Mat. and Chem. Tech., Tokyo Tech)

[2P40] Prompt and delayed fluorescence imaging analysis of photon upconversion in organic composite microcrystals

\*Taishi SHIBUYA<sup>1</sup>, Masaaki MITSUI<sup>1</sup>, Yoshiki NIIHORI<sup>1</sup> (1. Rikkyo Univ.)

[2P41] Heteroatom doping effects on the photon up-conversion properties of thiolate-protected Ag<sub>25</sub> clusters

\*Yamato ARAI<sup>1</sup>, Yoshiki NIIHORI<sup>1</sup>, Masaaki MITSUI<sup>1</sup> (1. Grad. Sch. of Sci., Rikkyo Univ.)

[2P42] Temperature Dependence of Triplet Fusion of Anthracene in Solution

\*Shuta TSUCHIYA<sup>1</sup>, Tadaaki IKOMA<sup>1</sup>, Tomoaki MIURA<sup>2</sup> (1. Grad. Sch. of Sci. & Tech., Niigata Univ., 2. Fac. of Sci., Niigata Univ.)

[2P43] Triplet sensitization and photon upconversion using thiolate-protected Ag<sub>29</sub> clusters

\*Naoya TAKAHASHI<sup>1</sup>, Yoshiki NIIHORI<sup>1</sup>, Masaaki MITSUI<sup>1</sup> (1. Fac. of Sci., Rikkyo Univ.)

[2P44] Magnetic field effects about singlet fission in rubrene nano particle

\*Takuya NAKAMURA<sup>1</sup>, Tomoaki YAGO<sup>1</sup>, Masanobu WAKASA<sup>1</sup>, Masanori UJI<sup>2</sup>, Yoichi SASAKI<sup>2</sup>, Nobuhiro YANAI<sup>2,3</sup> (1. Grad. Sch. of Sci. & Eng., Saitama Univ., 2. Grad. Sch. of Eng., Kyushu Univ., 3. PRESTO, JST)

[2P45] Magnetic field effects of Triplet fusion in 9,10-diphenylanthracene single crystal

\*Manami TASHIRO<sup>1</sup>, Kiichi HASEGAWA, Tomoaki YAGO<sup>1</sup>, Masanobu WAKASA<sup>1</sup> (1. Grad. Sch. of Sci. and Eng., Saitama Univ.)

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- [2P46] Spin Dynamics of Multiexcitons Generated by Singlet Fission in Tetracene Molecular Wires  
\*Masaaki FUKI<sup>1</sup>, Shunta NAKAMURA<sup>2</sup>, Hayato SAKAI<sup>2</sup>, Taku HASOBE<sup>2</sup>, Yasuhiro KOBORI<sup>1</sup> (1. MPRC, Kobe Univ., 2. Fac. Sci. Tech, Keio Univ.)
- [2P47] Elementary Exciton Dynamics of Cadmium-Free Blue-Emitting InGaP Quantum Dots  
\*Hiroki KITAJIMA<sup>1</sup>, Daichi EGUCHI<sup>1</sup>, Naoto TAMAI<sup>1</sup> (1. Kwanseigakuin Univ. Grad. Sch.)
- [2P48] Generation of Singlet Oxygen using Gold or Silver Clusters  
\*Hiroaki YONEMURA<sup>1</sup>, Ryosuke YOSHII<sup>1</sup>, Daigo MURAKAMI<sup>1</sup> (1. Sojo Univ.)
- [2P49] Synthesis and Optical Properties of Multiple Lanthanide Fluoride Nanoparticles  
\*Akira KAWASHIMA<sup>1</sup>, Sae TANINO<sup>1</sup>, Yoshiki WADA<sup>1</sup>, Hideto MIYABE<sup>1</sup>, Shigeru KOHTANI<sup>1</sup> (1. Hyogo Univ. Health Sci.)
- [2P50] Non-fluorescent Dimer Formation of Fluorene Solubilized with Cyclodextrins in Water  
\*Keigo YAMAMOTO<sup>1</sup>, Nobuyuki ICHINOSE<sup>1</sup>, Akira HIRASE<sup>1</sup>, Akihito NISII<sup>1</sup> (1. Kyoto Inst. of Tech.)
- [2P51] Elucidation of the Mechanism in Halide-Exchange Reaction of a CsPbBr<sub>3</sub> Perovskite Nanocrystal  
\*Yuki TAJIKA<sup>1</sup>, Mitsuaki YAMAUCHI<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Grad. Sch. of Sci. and Technol., Kwansei Gakuin Univ.)
- [2P52] Elucidation of Energy Transfer Between a Single Perovskite Nanocrystal-Dye Molecules Systems  
\*Kaho MATSUNAGA<sup>1</sup>, Mitsuaki YAMAUCHI<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Grad. Sch. of Sci. and Technol., Kwansei Gakuin Univ.)
- [2P53] Emission Switching of Fluorescent Diarylethene Nanoparticles with Single-Wavelength CW Laser.  
\*Yumi TAKEI<sup>1</sup>, Syoji ITO<sup>1</sup>, Hikaru SOTOME<sup>1</sup>, Masakazu MORIMOTO<sup>2</sup>, Masahiro IRIE<sup>2</sup>, Hiroshi MIYASAKA<sup>1</sup> (1. Osaka Univ., 2. Rikkyo Univ.)
- [2P54] Presentation Cancelled
- [2P55] Exciton Dynamics of Semiconductor Quantum Dots-Porphyrin Derivatives Hybrid Systems  
\*Naoki NAKAYABU<sup>1</sup>, Daichi EGUCHI<sup>1</sup>, Naoto TAMAI<sup>1</sup>  
<sup>1</sup> (1. Kwansei Gakuin Univ.)
- [2P56] Emission Enhancement of a Single CdSe/ZnS Quantum Dot Using a One-Dimensional Metal Periodic Structure  
\*Hiroto TAKASE<sup>1</sup>, Hinako CHIDA, Mitsuaki YAMAUCHI<sup>1</sup>, Keiko TAWA<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Grad. Sch. of Sci. and Tech., Kwansei Gakuin Univ.)
- [2P57] Near-field enhancement effects induced by plasmon-optical mode interactions  
\*Rin MIYAZAKI<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. School Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. Sci., Hokkaido Univ.)
- [2P58] Photoelectrochemical properties on anode with multilayered gold nanoparticles under strong coupling condition between plasmon and Fabry-Pérot nanocavity  
\*Minori ISHIHARA<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Yocefu HATTORI<sup>1</sup>, Xu SHI<sup>2</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ)
- [2P59] Plasmon-enhanced near-fields controlled by the far-field coupling  
\*Junfeng YUE<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Sci., Hokkaido Univ.)
- [2P60] Spatial-coherence-enhanced hot-electron generation under modal strong coupling conditions  
\*Yen-En LIU<sup>1</sup>, Xu SHI<sup>2</sup>, Yocefu HATTORI<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Keiji SASAKI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.)
- [2P61] Plasmon-induced photochromic reactions under resonance conditions  
\*Yinhao XU<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1.

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[2P62] Near-field spectral characteristics of coupled plasmonic systems

\*Hiroki TAKEUCHI<sup>1</sup>, Aya TAKAHASHI<sup>2</sup>, Keisuke IMAEDA<sup>3</sup>, Kosei UENO<sup>3</sup> (1. Grad. School Chem. Sci. and Eng., 2. Fac. Sci., Hokkaido Univ., 3. Fac. Sci., Hokkaido Univ.)

[2P63] Plasmon-induced optical force with coupled nano-engineered metallic particles

\*Yutong GUAN<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Sci., Hokkaido Univ.)

[2P64] Effect of adhesion layer on hot-electron transfer from gold nanodisks to titanium dioxide under modal strong coupling conditions

\*En CAO<sup>1</sup>, Xu SHI<sup>2</sup>, Yocefu HATTORI<sup>1</sup>, Quan SUN<sup>1</sup>, Shuai ZU<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Jiaotong Univ.)

[2P65] Surface-enhanced Raman scattering under plasmon-nanocavity coupling condition

\*Xiaoqian ZANG<sup>1</sup>, Xu SHI<sup>2</sup>, Tomoya OSHIKIRI<sup>1</sup>, Yuji SUNABA<sup>1</sup>, Keiji SASAKI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.)

[2P66] Loading of gold nanoparticles on microsphere showing whispering galley mode

\*Kazuki FURUYA<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Xu SHI<sup>2</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.)

[2P67] Novel Photon Up-conversion System on Clay Surface

\*Yuki NAKADAI<sup>1</sup>, Masumi UEHARA<sup>1</sup>, Syuta TSUCHIYA<sup>1</sup>, Tadaaki IKOMA<sup>1</sup>, Tatsuto YUI<sup>1</sup> (1. Fac. of Sci., Niigata Univ.)

[2P68] Effect of surface plasmon resonance on triplet annihilation-based upconversion system using C70 fullerene sensitizer

\*Takuho MATSUI<sup>1</sup>, Kosuke SUGAWA<sup>2</sup>, Joe OTSUKI<sup>2</sup>, Ryuzi KATOH<sup>3</sup> (1. Grad. Sch. Sci. and Tech., Nihon Univ., 2. College of Sci. and Tech., Nihon Univ., 3. College of Eng., Nihon Univ.)

[2P69] Optimal selection of sensitizer for plasmonic triplet annihilation-based upconversion systems

\*Kosuke SUGAWA<sup>1</sup>, Shota JIN<sup>1</sup>, Hironobu TAHARA<sup>2</sup>, Joe OTSUKI<sup>1</sup> (1. College Sci. Tech., Nihon Univ., 2. Grad. Sch. Eng., Nagasaki Univ.)

[2P70] Ag pattern formation using metal-vapor deposition selectivity of UV curable polydimethylsiloxane

\*Akari NISHIMURA<sup>1</sup>, Tsuyoshi TSUJIOKA<sup>1</sup> (1. Osaka-Kyoiku Univ.)

[2P71] Material patterning based on selective Mg-vapor deposition of diarylethenes and acid etching

\*Akari NISHIMURA<sup>1</sup>, Tsuyoshi TSUJIOKA<sup>1</sup> (1. Osaka-Kyoiku Univ.)

[2P72] Effect of substrate on vapor crystal growth of 1,2-bis(2,5-dimethyl-3-thienyl)perfluorocyclopentene

\*Mami ISOBE<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Grad. Sch. Eng., Osaka City Univ.)

[2P73] Two-photon absorption properties of 1-trinaphthylamine derivatives and the ring-condensation effect of on them

\*Shuhei OZAKI<sup>1,2</sup>, Dirk GULDI<sup>3</sup>, Kenji KAMADA<sup>1,2</sup> (1. NMRI, AIST, 2. Glad. Sch. of Sci. & Tech., Kwansei Gakuin Univ., 3. Dep. of Chem. & Pharm., Friedrich Alexander Univ. Erlangen-Nürnberg)

[2P74] Structural dynamics in the excited state of vapoehromic Pt(II) complexes using time-resolved infrared spectroscopy.

\*Takumi EHARA<sup>1</sup>, Takanori TANAKA<sup>1</sup>, Kiyoshi MIYATA<sup>1</sup>, Daisuke SAITO<sup>2</sup>, Yasuhiro SHIGETA<sup>3</sup>, Masako KATO<sup>4</sup>, Ken ONDA<sup>1</sup> (1. Fac. of Sci. Kyushu Univ., 2. Grad. Sch. Chem. Sci. Eng., Hokkaido Univ., 3. Nanomaterials Research Inst., Kanazawa Univ., 4. Fac. of Biol. and Env. Sci., Kwansei Gakuin Univ.)

[2P75] Nanowire fluorescent ELISA toward quantitative detection of intracellular protein expression level

\*Haruka KOJIMA<sup>1</sup>, Kenji HIRAI<sup>1</sup>, Tomoko INOSE<sup>2</sup>, Hiroshi UJII<sup>1,3</sup> (1. Hokkaido Univ., 2. Kyoto Univ., 3. KULouvain)

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[2P76] Preparation of novel organic/inorganic complex using niobia nanosheet

\*Momoka OSHIMA<sup>1</sup>, Keito SANO<sup>1</sup>, Yugo HIRADE<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Tamao ISHIDA<sup>1,2</sup>, Shinsuke TAKAGI<sup>1,2</sup> (1. Grad. Sch. of Urban Environmental Sci., Tokyo Metropolitan Univ., 2. Research Center for Hydrogen Energy-based Society)

[2P77] EL and PL properties of single CsPbBr<sub>3</sub> perovskite nanocrystals

\*Ryotaro NAKAMURA<sup>1</sup> (1. Tokyo Inst. Tech)

[2P78] Photochemical preparation of Au-deposited Zn-Ag-In-Se nanorods and their photochemical properties depending on the heterostructure

\*Chizuru TAKAMORI<sup>1</sup>, Ko MASUOKA<sup>1</sup>, Tatsuya KAMEYAMA<sup>1,2</sup>, Susumu KUWABATA<sup>3</sup>, Tsukasa TORIMOTO<sup>1</sup> (1. Nagoya Univ., 2. JST-PRESTO, 3. Osaka Univ.)

[2P79] Adsorption behavior of cationic porphyrins on titania nanosheets exfoliated with alkali metal salts

\*Yugo HIRADE<sup>1</sup>, Keito SANO<sup>1</sup>, Hosei TAKIMOTO<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Tamao ISHIDA<sup>1,2</sup>, Shinsuke TAKAGI<sup>1,2</sup> (1. Fac. of Urb. Env. Sci., Tokyo Metropolitan Univ., 2. ReHES)

[2P80] Accumulation of functional molecules by using nanopores in protein crystals as the platform

\*Takayuki UWADA<sup>1</sup>, Nodoka TANUSHI<sup>1</sup>, Ryoma TAKESHITA<sup>1</sup>, Mitsuru ISHIKAWA<sup>1</sup> (1. Dep. Chem., Josai Univ.)

[2P81] Development of Au nanorod plasmonic catalyst covered with g-C<sub>3</sub>N<sub>4</sub> incorporating Co species for CO<sub>2</sub> reduction reaction by the assistance of Surface Plasmon Resonance

\*Kenjiro TAMAKI<sup>1</sup>, Takeharu YOSHII<sup>1</sup>, Yasutaka KUWAHARA<sup>1,2,3</sup>, Kohsuke MORI<sup>1,2</sup>, Hiromi YAMASHITA<sup>1,2</sup> (1. Grad.Eng., Osaka univ., 2. ESICB, Kyoto Univ., 3. PRESTO,JST)

[2P82] Molecule deposition in mask-shielded regions revealed by selective Mg vapor deposition of diarylethene

\*Hatsuka KUSAKA<sup>1</sup>, Arimi SHIMOTSU<sup>1</sup>, Tsuyoshi TSUJIOKA<sup>1</sup> (1. Osaka-Kyoiku Univ.)

[2P83] Effect of alkyl substituents at reactive carbon atoms on the photoresponsive properties of diarylethenes

\*Eri FUJISAWA<sup>1</sup>, Ifu BAN<sup>1</sup>, Ryo NISHIMURA<sup>1</sup>, Masakazu MORIMOTO<sup>1</sup>, Masahiro IRIE<sup>1</sup> (1. Fac. of Sci., Rikkyo University)

[2P84] Quantitative Evaluation of Cooperative Photoreaction Process and Photomechanical Behavior in 9-Methylanthracene Single Crystal

\*Kohei MORIMOTO<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Fei TONG<sup>2</sup>, Christopher J. BARDEEN<sup>2</sup>, Seiya KOBATAKE<sup>1</sup> (1. Grad. Sch. Eng., Osaka City Univ., 2. Dept. of Chem., University of California, Riverside)

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### Poster Session 3

**Thu. Sep 16, 2021 4:40 PM - 6:20 PM**

[3P01] Substitution position effects of the electron-withdrawing group, CF<sub>3</sub>, on tautomer fluorescence of coumarin-urea derivatives

\*Masato KOIKE<sup>1</sup>, Yoshinobu NISHIMURA<sup>1</sup> (1. Univ. Tsukuba)

[3P02] Electron-withdrawing group effect on tautomeric fluorescence of an anthracene-urea compound

\*Hiroki OYAMA<sup>1</sup>, Yoshinobu NISHIMURA<sup>1</sup> (1. Univ. Tsukuba)

[3P03] The effect of solvent in the process of intramolecular proton transfer of a pyrene-urea compound in the excited state

\*Leyun HUANG<sup>1</sup>, Mayu YOSHIDA<sup>1</sup>, Yoshinobu NISHIMURA<sup>1</sup> (1. Univ. Tsukuba)

[3P04] Diphenylanthracene derivative photo-functional dispersants of nano carbon materials

\*Kazuki TAKAHASHI<sup>1</sup>, Koki IKEDA<sup>1</sup>, Nergis ARSU<sup>2</sup>, Shigeru TAKAHARA<sup>1</sup> (1. Fac. of Eng., Chiba Univ., 2. Yildiz Technical Univ.)

[3P05] Presentation Cancelled

[3P06] Chromic Properties of Chlorophyll Derivatives Possessing Different Length *N*-Alkylamide Groups on Rings I and IV

\*Takuma YOSHIYAMA<sup>1</sup>, Ryo INOUE<sup>1</sup>, Tomohiro MIYATAKE<sup>1</sup> (1. Fac. of Adv. Sci. and Tech., Ryukoku Univ.)

[3P07] Development of Fluorescent Reagents for the Detection of Neurotransmitters

\*Yoshio SUZUKI<sup>1</sup> (1. AIST)

[3P08] Development and PDT activities of phosphorous-porphyrin photosensitizers through optimization of glucose linking method

\*Yuri CHAKI<sup>1</sup>, Jin MATSUMOTO<sup>1</sup>, Yoshitaka HISHIKAWA<sup>2</sup>, Naoya IMAMURA<sup>2</sup>, Kengo KAI<sup>2</sup>, Atsushi NANASHIMA<sup>2</sup> (1. Fac. of Eng., Univ. of Miyazaki, 2. Fac. of Med., Univ. of Miyazaki)

[3P09] Evaluation of photodynamic activity of phosphorous porphyrin complexes containing axial amino ligands in yeast cells

\*Daiki NAGANO<sup>1</sup>, Yuri CHAKI<sup>1</sup>, Jin MATSUMOTO<sup>1</sup>, Tsutomu SHIRAGAMI<sup>1</sup> (1. Fac. of Eng., Univ. of Miyazaki)

[3P10] Synthesis of Boron Complexes Based on Tridentate Imidazo[1,5-*a*]pyridine Ligand and Their Structural and Photophysical Properties

\*Koki TAHARA<sup>1</sup>, Keita HOSHI<sup>1</sup>, Masami ITAYA<sup>1</sup>, Atsushi TABATA<sup>2</sup>, Hideaki NAGAMUNE<sup>2</sup>, Tetsuro KATAYAMA<sup>3</sup>, Akihiro FURUBE<sup>3</sup>, Keiji MINAGAWA<sup>1</sup>, Yasushi IMADA<sup>1</sup>, Fumitoshi YAGISHITA<sup>1,3</sup> (1. Tokushima Univ., 2. Tokushima Univ., 3. Inst. of Post-LED Photonics)

[3P11] Research on Cytotoxicity of photoactive Surfactants

\*Rintarou GOUSHI<sup>1</sup>, Yuya ASHIKAGA, Sunnam KIM<sup>2</sup>, Tsuyoshi FUKAMINATO<sup>2</sup>, Wei XU<sup>2</sup>, Takuro NIIDOME<sup>2</sup>, Seiji KURIHARA<sup>2</sup> (1. Grad. Sch. of Sci. and Tech., Kumamoto Univ., 2. Faculty of Adv. Sci. and Tech., Kumamoto Univ.)

\*Kouki KADO<sup>1</sup>, Takumi NAKANISHI<sup>2</sup>, Osamu SATO<sup>2</sup> (1. Fac. of Sci., Kyushu Univ., 2. IMCE., Kyushu Univ.)

[3P13] Emission properties of Photo-controllable azobenzene crystals

\*Miho OKAJI<sup>1</sup>, Mitsuaki YAMAUTI<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Grad. Sch. of Sci. and Technol., Kwansei Gakuin Univ.)

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- [3P14] Photoisomerizations of *N*-substituted phthalimide derivatives containing stilbene structure and their optical properties  
\*Motoki INOUE<sup>1</sup>, Kazuhiro YAMABUKI<sup>1</sup>, Kenjiro ONIMURA<sup>1</sup> (1. Grad. Sch. of Sci. and Tech. for Innov., Yamaguchi Univ.)
- [3P15] Synthesis and solvatochromic behavior of chiral phthalimide derivatives and their optical properties  
\*Takumi YAMAMOTO<sup>1</sup>, Kazuhiro YAMABUKI<sup>1</sup>, Kenjiro ONIMURA<sup>1</sup> (1. Grad. Sch. of Sci. and Tech. for Innov., Yamaguchi Univ.)
- [3P16] Photochemical Reactions of Bispyrenylstyrene Crosslinked with a Binaphthyl Unit and Multicolor Tuning of Cholesteric Liquid Crystal Reflection  
\*Tsuyoshi ITO<sup>1</sup>, Tetsuya NAKAGAWA<sup>1</sup>, Takashi UBUKATA<sup>1</sup> (1. Grad. Sch. of Eng. Sci., Yokohama Natl. Univ.)
- [3P17] Photochemical Reactions of Bispyrenylacrylate Crosslinked with a Binaphthyl Unit and Its Application for Photocontrol of Liquid Crystal Orientation  
\*Ryo NAKAMURA<sup>1</sup>, Tetsuya NAKAGAWA<sup>1</sup>, Takashi UBUKATA<sup>1</sup> (1. Grad. Sch. of Eng. Sci., Yokohama Natl. Univ.)
- [3P18] Synthesis of [2]catenane bearing a stilbene unit and its photoresponsive behavior.  
\*Ayaka KATAGIRI<sup>1</sup>, Daichi TANAKA<sup>1</sup>, Eietsu HASEGAWA<sup>1</sup>, Hajime IWAMOTO<sup>1</sup> (1. Grad. School of Sci. and Tech., Niigata Univ.)
- [3P19] Fluorescence switching properties of fluorescent diarylethene derivatives under single wavelength photoexcitation: light intensity and host matrix dependence  
\*Michiru AIKAWA<sup>1</sup>, Misato FUNAOKA<sup>1</sup>, Shoji ITO<sup>1</sup>, Masakazu MORIMOTO<sup>2</sup>, Masahiro IRIE<sup>2</sup>, Hiroshi MIYASAKA<sup>1</sup> (1. Fac. of Eng. Sci., OSAKA Univ., 2. Fac. of Sci., Rikkyo Univ.)
- [3P20] Morphology Change of the Supramolecular Assembly of Polymerized Amphiphilic Diarylethene with Temperature Change  
\*Atsushi NAMIKAWA<sup>1</sup>, Kenji HIGASHIGUCHI<sup>1</sup>, Kenji MATSUDA<sup>1</sup> (1. Kyoto Univ.)
- [3P21] Reverse Photochromism of Oxidized Dithienylethene with Spiro Structure  
\*Keiju YASUI<sup>1</sup>, Tetsuya NAKAGAWA<sup>1</sup>, Takashi UBUKATA<sup>1</sup> (1. Grad. Sch. of Eng. Sci., Yokohama Natl. Univ.)
- [3P22] Synthesis and physical properties of difluoroboron complexes of diketonate moieties in 132,173-cyclopheophorbides with chlorin and bacteriochlorin skeletons  
\*Haruki ISHIKAWA<sup>1</sup>, Yusuke KINOSHITA<sup>1</sup>, Hitoshi TAMIaki<sup>1</sup> (1. Ritsumeikan Univ.)
- [3P23] Non-metal photochemical CO<sub>2</sub> reduction to formate with organohydride-recycle strategy  
\*Weibin XIE<sup>1</sup>, Jiasheng XU<sup>1</sup>, Ubaidah Md IDROS, Masahiko HAYASHI<sup>1</sup>, Ryosuke MATSUBARA<sup>1</sup> (1. Fac. of Sci., Kobe Univ.)
- [3P24] Two-electron water oxidation to form hydrogen peroxide with one-photon of visible light using Sn-porphyrin / SnO<sub>2</sub> film  
\*Yutaka OHSAKI<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Tamao ISHIDA<sup>1,2</sup>, Shinsuke TAKAGI<sup>1,2</sup>, Hiroshi TACHIBANA<sup>1</sup>, Haruo INOUE<sup>1,2</sup> (1. Tokyo Metropolitan Univ., 2. Research Center for Hydrogen Energy-based Society)
- [3P25] Unused Number
- [3P26] Photochemical CO<sub>2</sub> reduction catalyzed by dyads consisting of Zn porphyrin-Re carbonyl complex with different binding positions.  
\*Yuto SUZUKI<sup>1</sup>, Yusuke KURAMOCHI<sup>1</sup>, Akiharu SATAKE<sup>1</sup> (1. Grad. Sch. of Sci., Tokyo Univ. of Sci.)

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[3P27] Red-green-blue-yellow magnetic magnetic circularly polarized luminescence (MCPL) from optically inactive iridium complexes by applying an external magnetic field

\*Maho KITAHARA<sup>1</sup>, Seika SUZUKI<sup>2</sup>, Kana MATSUDAIRA<sup>1</sup>, Shigeyuki YAGI<sup>3</sup>, Michiya FUZIKI<sup>4</sup>, Yoshitane IMAI<sup>1</sup> (1. Grad. Sch. of Sci.Eng., Kindai Univ., 2. Fac. of Sci. Eng., Kindai Univ., 3. Grad. Sch. of Eng., Osaka Pref. Univ., 4. NAIST)

[3P28] Spatiotemporal photo-triggered sensing of singlet oxygen by rhodamine 6G-anthracene linked molecule

\*Hanjun ZHAO<sup>1</sup>, Yuta TAKANO<sup>1,2</sup>, Devika SASIKUMAR<sup>1,2</sup>, Vasudevan Pillai BIJU<sup>1,2</sup> (1. Grad. Sch. Env. Sci., Hokkaido Univ., 2. Res. Inst. Electr. Sci., Hokkaido Univ.)

[3P29] Photon Upconversion of Self-assembled Diphenylanthracenes Constructed Using DNA as Templates

\*Ken NISHIOKA<sup>1</sup>, Kango OKU<sup>1</sup>, Mitsunobu NAKAMURA<sup>1</sup>, Tadao TAKADA<sup>1</sup> (1. Univ. of Hyogo)

[3P30] Cycloreversion reaction of diarylethene derivatives: elucidation of specific reactivity to higher excited states formed by one-photon absorption

\*Kento MIZUTA<sup>1</sup>, Tatsuhiko NAGASAKA<sup>1</sup>, Hikaru SOTOME<sup>1</sup>, Hiroshi MIYASAKA<sup>1</sup> (1. Osaka Univ.)

[3P31] Ultrafast E  $\rightarrow$  Z and Z  $\rightarrow$  E isomerizations of hemiindigo derivatives with coherent nuclear wave packet motion

\*Yamato HIGASHI<sup>1</sup>, Yu KIHARA<sup>1</sup>, Kazuki HINAGO<sup>1</sup>, Yutaka NAGASAWA<sup>2</sup> (1. Fac. of Sci., Ritsumeikan Univ., 2. Fac. of Sci., Ritsumeikan Univ.)

[3P32] Pulse width dependence of laser-induced amplification of ring-opening reaction in diarylethene nanoparticles.

\*Shintaro MATSUMOTO<sup>1</sup>, Yukihide ISHIBASHI<sup>1</sup>, Tsuyoshi ASahi<sup>1</sup> (1. Ehime Univ)

[3P33] Femtosecond pump-probe spectroscopy on phycoerythrin multimeric complexes from red alga *Neopyropia*

\*Daisuke KOSUMI<sup>1</sup>, Yuma HIROTA<sup>2</sup>, Keisuke KAWAKAMI<sup>3</sup>, Kimiko NAGAYOSHI<sup>4</sup>, Toshinari KUROKI<sup>4</sup>, Ryuya MATSUDA<sup>5</sup>, Susumu TAKIO<sup>5</sup>, Nobuo KAMIYA<sup>6</sup> (1. IINa, Kumamoto Univ., 2. Grad. of Sci. and Tech., Kumamoto Univ., 3. RIKEN, SPring-8, 4. Daiichi Seimou Co., LTD, 5. CWMD, Kumamoto Univ., 6. ReCAP, Osaka City Univ.)

[3P34] Energy transfer dynamics in a cysteine-incorporated biohybrid light-harvesting antenna LH2

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[3P35] Dynamics of Primary Photosynthetic Processes in Green Sulfur Bacterial Reaction Center: Effect of Phylloquinone

\*Kazuki HINAGO<sup>1</sup>, Tomomi INAGAKI<sup>1</sup>, Tetsuya YAMAMOTO<sup>1</sup>, Masataka HOASHI<sup>1</sup>, Keita SUGIHARA<sup>1</sup>, Chihiro AZAI<sup>2</sup>, Yutaka NAGASAWA<sup>2</sup> (1. Fac. of Sci., Ritsumeikan Univ., 2. Fac. of Sci., Ritsumeikan Univ.)

[3P36] Patterning of small liquid droplets of organic dye solution by optical vortex laser induced forward transfer

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[3P37] Electronic transitions of Mn(I) complexes affected by different  $\pi$ -conjugation lengths in their polypyridyl ligands

\*Tsubiko TAKASE<sup>1</sup>, Takatoshi KANNO<sup>1</sup>, Koki CHONAN<sup>1</sup>, Dai OYAMA<sup>1</sup> (1. Fukushima Univ.)

[3P38] Directional micro-motion of polymer microstructure induced by anisotropic emission of fluorescence

\*Takayuki NANNO<sup>1</sup>, Takahiro KAJI<sup>2</sup>, Takuya IIDA<sup>3</sup>, Mamoru TAMURA<sup>1</sup>, Syoji ITO<sup>1</sup>, Hiroshi MIYASAKA<sup>1</sup> (1. Osaka Univ., 2. National Inst. of Information and Communications Tech., 3. Osaka Pref. Univ.)

[3P39] Elucidation of Structural Relaxation Dynamics of Cycloparaphenylene in the Excited State Using Femtosecond Stimulated Raman Spectroscopy

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\*Yusuke MORITA<sup>1</sup>, Hikaru SOTOME<sup>1</sup>, Hiroshi MIYASAKA<sup>1</sup> (1. Fac. of Eng. Sci., Osaka Univ.)

[3P40] Absorption spectra of perylene and anthracene in molten state

\*Haruyoshi KUBOTA<sup>1</sup>, Ryuzi KATO<sup>1</sup> (1. Nihon Univ.)

[3P41] Stabilization of visible 5-fs pulse laser for time-resolved spectroscopy of molecular vibration

\*Izumi IWAKURA<sup>1</sup>, Kotaro OKAMURA<sup>1</sup>, Sena HASHIMOTO<sup>2</sup>, Atsushi YABUSHITA<sup>1</sup> (1. Kanagawa Univ., 2. JSPS)

[3P42] Singlet Exciton Diffusion Dynamics in HJ-Aggregated Polythiophene Thin Films

\*Taiki TAKEYAMA<sup>1</sup>, Yasuhiro MURATA<sup>1</sup>, Yasunari TAMAI<sup>1,2</sup>, Hideo OHKITA<sup>1</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. JST PRESTO)

[3P43] Photophysical properties of 3-acetoacetyl coumarin derivatives with electron-donating substituents

\*Mina TSUNODA<sup>1</sup>, Manami NOGUCHI<sup>2</sup>, Seiji TOBITA<sup>1</sup>, Toshitada YOSHIHARA<sup>1</sup> (1. Grad. of Sci. and Tech., Gunma Univ., 2. Fac. of Sci. and Tech., Gunma Univ.)

[3P44] Excited state and photosensitization of 5-fluoro-4-thiouridine

\*Yoshino YAMADA<sup>1</sup>, Wataru KASHIHARA<sup>1</sup>, Tadashi SUZUKI<sup>1</sup> (1. Grad. Sch. Sci. Eng., Aoyama Gakuin Univ.)

[3P45] Time resolved EPR study on intramolecular singlet fission mechanism of biphenyl-bridged tetracene dimer

\*Kakeru ONISHI<sup>1</sup>, Shunta NAKAMURA<sup>2</sup>, Taku HASOBE<sup>2</sup>, Yasuhiro KOBORI<sup>3</sup> (1. Grad. Sch. of Sci., Kobe Univ., 2. Fac. of Sci. Tech., Keio Univ., 3. MPRC., Kobe Univ.)

[3P46] Effects of molecular structure and counter anion on the excited state dynamics of benzo[*b*]phospholium salts

\*Kaori FUJII<sup>1</sup>, Yuta KUDO<sup>2</sup>, Nina MURAYAMA<sup>2</sup>, Atsuro MATSUMOTO<sup>1</sup>, Yoshihiro MATANO<sup>2</sup>, Yoshifumi KIMURA<sup>1,3</sup> (1. Fac. of Sci. and Eng., Doshisha Univ., 2. Grad. of Sci. and Tech., Niigata Univ., 3. Grad. of Sci and Eng., Doshisha Univ. )

[3P47] Excited State Dynamics of a Fullerene Derivative, [60]PCBM, in Electron Donating Solvents

\*Haruka TSUJII<sup>1</sup>, Yuto MASAOKA, Kazuki HINAGO<sup>1</sup>, Yu KIHARA<sup>1</sup>, Yutaka NAGASAWA<sup>1</sup> (1. Fac. of Sci., Ritsumeikan Univ.)

[3P48] Aggregation-induced emission in ligand-protected Au<sub>2</sub>Cu<sub>6</sub> clusters

\*Daichi ARIMA<sup>1</sup>, Yoshiki NIIHORI<sup>1</sup>, Masaaki MITSUI<sup>1</sup> (1. Fac. of Sci., Rikkyo Univ.)

[3P49] Elucidation of photoionization dynamics of CdTe quantum dots using multiple excitation

\*Naoki IDE<sup>1</sup>, Masafumi KOGA<sup>2</sup>, Yuto MIYAKE<sup>1</sup>, Hikaru SOTOME<sup>1</sup>, Hiroshi MIYASAKA<sup>1</sup> (1. Osaka Univ., 2. UC Berkeley)

[3P50] Time resolved EPR study on interfacial charge-transfer and charge separation at bulk-heterojunction of blend film using tetrabenzoporphyrin–diketopyrrolopyrrole conjugate as a donor

\*Takaaki NAGATOMO<sup>1</sup>, Masaaki FUKI<sup>1,2</sup>, Sadahiro MASUO<sup>3</sup>, Hiroko YAMADA<sup>4</sup>, Yasuhiro KOBORI<sup>1,2</sup> (1. Grad. Sch. of Sci., Kobe Univ., 2. Mol. Photosci. Res. Center, Kobe Univ., 3. Sch. Bio. Environ. Sci., Kwansei Gakuin Univ., 4. Grad. Sch. Sci. Tec. NAIST)

[3P51] Femtosecond fluorescence upconversion measurements of excimer formation dynamics of perylene in thin films

\*Koki IMAMURA<sup>1</sup>, Munetaka IWAMURA<sup>1</sup>, Koichi NOZAKI<sup>1</sup> (1. Univ. of Toyama)

[3P52] Time resolved EPR study on the excited states exhibiting thermally activated delayed fluorescence

\*Joji KATSUHIRA<sup>1</sup>, Yu KUSAKABE<sup>2</sup>, Yoshimasa WADA<sup>2</sup>, Natsuko KANNO<sup>2</sup>, Yongxia REN<sup>2</sup>, Hironori KAJI<sup>2</sup>, Yasuhiro KOBORI<sup>1,3</sup> (1. Grad. Sch. Sci., Kobe Univ., 2. Inst. Chem. Res., Kyoto Univ., 3. Mol. Photosci. Res. Center, Kobe Univ.)



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[3P53] Fluorescence dynamics of AIE-active silole in single crystal

\*Yuki NISHIURA<sup>1</sup>, Yukihide ISHIBASHI<sup>1</sup>, Tsuyoshi ASAH<sup>1</sup> (1. Ehime Univ.)

[3P54] Solvent Effects on Charge Transfer State of 9-Arylcarbazole Studied by Time-resolved Spectroscopy

\*Kazuya TAKAMOTO<sup>1</sup>, Yoshifumi UENO<sup>1</sup>, Kaoru OHTA<sup>1,2</sup>, Michitoshi HAYASHI<sup>3</sup>, Seiji AKIMOTO<sup>1</sup>, Ryosuke MATSUBARA<sup>1</sup>, Keisuke TOMINAGA<sup>1,2</sup> (1. Grad. Sch. of Sci., Kobe Univ., 2. Molecular Photoscience Research Ctr., Kobe Univ., 3. Ctr. for Condensed Matter Sci., National Taiwan Univ.)

[3P55] Excitation polarization dependence of lasing dynamics in a CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> crystal revealed by femtosecond transient absorption microscopy

\*Yuma FUJITA<sup>1</sup>, Yuichiro AKAGI<sup>1</sup>, Tetsuro KATAYAMA<sup>1</sup>, Akihiro FURUBE<sup>1</sup> (1. Tokushima Univ.)

[3P56] Femtosecond transient absorption microspectroscopy of copper phthalocyanine nanorods thin film

\*Ryosuke TANAKA<sup>1</sup>, Yukihide ISHIBASHI<sup>1</sup>, Tsuyoshi ASAH<sup>1</sup> (1. Ehime Univ.)

[3P57] Selective photo reaction induced by spectrally shaped pulse laser

\*Sena HASHIMOTO<sup>1,2</sup>, Atsushi YABUSHITA<sup>3</sup>, Izumi IWAKURA<sup>3</sup> (1. JSPS, 2. Yokohama Natl. Univ., 3. Kanagawa Univ.)

[3P58] Alkyl side-chain length dependence on singlet oxygen relaxation in ionic liquids

Yui URUSHIMA<sup>1</sup>, Erena OGAWA<sup>1</sup>, Kyohei USAMI<sup>1</sup>, \*Akio KAWAI<sup>1</sup> (1. Fac. of Sci., Kanagawa Univ.)

[3P59] Acceleration of Thermal Back Reaction of Negative Photochromic Binaphthyl-Bridged Imidazole Dimer

\*Keiki MATSUURA<sup>1</sup>, Katsuya MUTOH<sup>1</sup>, Jiro ABE<sup>1</sup> (1. Aoyama Gakuin Univ. )

[3P60] Design and synthesis of diarylethene-perylenebisimide dyads that shows the photocyclization reaction upon irradiation with visible (> 540 nm) light

\*Issei IKARIKO<sup>1</sup>, Sunnam KIM<sup>1</sup>, Seiji KURIHARA<sup>1</sup>, Tsuyoshi FUKAMINATO<sup>1</sup> (1. Kumamoto Univ.)

[3P61] Synthesis of visible-light-responsive photochromic diarylethenes having extended  $\pi$ -conjugation

\*Atsuhiko YOSHIKAWA<sup>1</sup>, Ifu BAN<sup>1</sup>, Ryo NISHIMURA<sup>1</sup>, Masakazu MORIMOTO<sup>1</sup>, Masahiro IRIE<sup>1</sup> (1. Fac. of Sci., Rikkyo Univ.)

[3P62] Fabrication and photo-induced interlayer distance change of a layered titanoniobate hybrid

\*Futa NAKAMURA<sup>1</sup>, Tsutomu SHIRAGAMI<sup>1</sup>, Yu NABETANI<sup>1</sup> (1. Univ. of Miyazaki)

[3P63] T-type Photochromism of ZnO Nanocrystals

\*Hiroki ITO<sup>1</sup>, Yoichi KOBAYASHI<sup>1</sup> (1. Fac. of Life Sci., Ritsumeikan Univ.)

[3P64] Black photochromism in a diarylethene derivative

\*Asami SAKANISHI<sup>1</sup>, Fuminori SATOU<sup>2</sup>, Yoshimi OHTA<sup>2</sup>, Shunta NABETANI<sup>2</sup>, Maki KAMIKUBO<sup>2</sup>, Ryota MAEHASHI<sup>2</sup>, Tomoya OBARA<sup>2</sup>, Sannan KIM<sup>1</sup>, Seiji KURIHARA<sup>1</sup>, Tsuyoshi FUKAMINATO<sup>1</sup> (1. Dept. of Applied Chem. & Biochem., Grad. Sch. of Sci. & Tech., Kumamoto Univ., 2. Nissan Motor Co. Ltd.)

[3P65] Synthesis of diarylbenzene with high photoreactivity and fast thermal decoloration property

\*Rikuto MAEGAWA<sup>1</sup>, Shota HAMATANI<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Grad. Sch. Eng., Osaka City Univ.)

[3P66] Step- $\pi$ -conjugated polymers (169) Synthesis of A,B-block type macromolecular wire with controlled electron transfer direction.

\*Kota TANAKA<sup>1</sup>, Haoxuan GUO<sup>1</sup>, hiroyuki AOTA<sup>1</sup> (1. Kansai Univ. Fac. of Chem., Mater. And BioEng)

[3P67] Step- $\pi$ -conjugated polymers (170) Synthesis of macromolecular wire with a donor and an acceptor at terminals and evaluation of its photoinduced electron transfer

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[3P68] Step- $\pi$ -conjugated polymers (171) Evaluation of photoinduced electron transfer for polymer with a donor and an acceptor at the terminal

\*MAKI TANAKA<sup>1</sup>, Haoxuan GUO<sup>1</sup>, Hiroyuki AOTA<sup>1</sup> (1. Kansai Univ. Fac. of Chem., Mater. and BioEng.)

[3P69] Step- $\pi$ -conjugated polymers (172) Synthesis of amphiphilic macromolecular wires using energy level difference and evaluation of photoinduced electron transfer

\*Mitsuhiro FUNO<sup>1</sup>, Haoxuan GUO<sup>1</sup>, Hiroyuki AOTA<sup>1</sup> (1. Kansai Univ. Fac. of Chem., Mater. and Bioeng.)

[3P70] Step- $\pi$ -conjugated polymers (173) Synthesis and optical behavior of A,B-block type amphiphilic macromolecular wire

\*Yusuke UDA<sup>1</sup>, Haoxuan GUO<sup>1</sup>, Hiroyuki AOTA<sup>1</sup> (1. Kansai Univ. Fac. of Chem., Mater. and Bioeng.)

[3P71] Step- $\pi$ -conjugated polymers (174) Binding and evaluation of ferrocene-introduced macromolecular wires to gold electrodes by two approaches

[3P72] Step- $\pi$ -conjugated polymers (175) Synthesis of ferrocene introduced a macromolecular wire on Au electrode

\*Yuriko TAKEMURA<sup>1</sup>, Haoxuan GUO<sup>1</sup>, Hiroyuki AOTA<sup>1</sup> (1. Kansai Univ. Fac. of Chem., Mater. and Bioeng.)

[3P73] Investigation on the mechanism for the OH-radical formation by the BiVO<sub>4</sub>-TiO<sub>2</sub> photocatalysts

\*Shizu TERAOKA<sup>1</sup>, Yoshinori MURAKAMI<sup>1</sup> (1. NIT, Nagaoka College)

[3P74] Comparison of H<sup>+</sup> photoreduction ability of Pt/TNS synthesized by deposition reduction method and light deposition method

\*Hosei TAKIMOTO<sup>1</sup>, Yugo HIRADE<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Tamao ISHIDA<sup>1,2</sup>, Shinsuke TAKAGI<sup>1,2</sup> (1. Tokyo Metropolitan Univ., 2. Research Center for Hydrogen Energy-based Society)

[3P75] Synthesis and characterization of titanium/tin complex metal oxide nanoparticles

\*Keito SANO<sup>1</sup>, Tamao ISHIDA<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Hiroshi TACHIBANA<sup>1</sup>, Bunsho OHTANI<sup>2</sup>, Shinsuke TAKAGI<sup>1</sup>, Haruo INOUE<sup>1</sup> (1. Tokyo Metropolitan Univ., 2. Inst. for Catalysis, Hokkaido Univ.)

[3P76] Effect of Metal-oxide Cluster Species of Metal-organic Framework Photocatalysts on H<sub>2</sub>O<sub>2</sub> Production

\*Kenta HINO<sup>1</sup>, Yoshifumi KONDO<sup>1</sup>, Yasutaka KUWAHARA<sup>1,2,3</sup>, Kohsuke MORI<sup>1,2</sup>, Hiromi YAMASHITA<sup>1,2</sup> (1. Grad. Eng., Osaka Univ., 2. ESICB, Kyoto Univ., 3. JST-PRESTO)

[3P77] Hydrogen production system using household wastewater as main material of photocatalyst and sacrificial agent

\*Jeevandi DEWANTARA<sup>1</sup>, Haruki NAGAKAWA<sup>1</sup>, Morio NAGATA<sup>1</sup> (1. Grad. Sch. of Eng., Tokyo Univ. of Sci.)

[3P78] Preparation of Azobenzene-based Molecular Glass Microspheres and Their Photomechanical Behaviors

\*Hajime NIGORIKAWA<sup>1</sup>, Motona MATSUBARA<sup>1</sup>, Hideyuki NAKANO<sup>1</sup> (1. Muroran Inst.)

[3P79] Measurements of photovoltaic properties of solar cell sensitized with c-phycocyanin protein complex

\*Koji TAMURA<sup>1</sup>, Motoyasu ADACHI<sup>2</sup>, Rumi SHIMIZU<sup>2</sup>, Tomitugu TAGUCHI<sup>1</sup>, Hironori OHBA<sup>1</sup> (1. QST, 2. QST)

[3P80] Unique absorption / emission behavior of bipyridinium derivatives on solid surfaces

\*Hikaru TOIDA<sup>1</sup>, Shota IGOSHI<sup>1</sup>, Tatsuto YUI<sup>1</sup> (1. Fac. of Sci., Niigata University)

[3P81] Study of optical and photophysical properties of mixed cation (FA/MA) lead halide perovskites on the microscopic level

\*Anubha AGARWAL<sup>1</sup>, Ryotaro NAKAMURA<sup>1</sup>, Shun OMAGARI<sup>1</sup>, Martin VACHA<sup>1</sup> (1. Tokyo Inst. Tech.)

[3P82] Construction of porous organic salts with heavy-atom space composed of tetrahedral tetra sulfonic acids and triphenylmethylenes modified by heavy halogen and phosphorescence induction of the luminescent molecules in the pores.

\*Hiroi SEI<sup>1</sup>, Norimitsu TOHNAI<sup>1</sup> (1. Grad. Sch. of Eng., Osaka Univ.)

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[3P83] Synthesis and Properties of triazine substituted luminescent platinum complexes  
Yuto OOTSUKA<sup>1</sup>, \*Masashi HASHIMOTO<sup>1</sup>, Hideo KONNO<sup>2</sup> (1. Fac. of Sci., Josai Univ., 2. AIST)

[3P84] Synthesis of *N*-alkylated 4-anthrylphthalimide derivatives and its mechanochromism using Diels-Alder reaction

\*Takemi YOKOYAMA<sup>1</sup>, Kazuhiro YAMABUKI<sup>1</sup>, Kenjiro ONIMURA<sup>1</sup> (1. Grad. Sch. of Sci. and Tech. for Innov., Yamaguchi Univ.)

[3P85] Transient-excited States of Visible-light-responsive Photocatalyst  $\text{CuLi}_{1/3}\text{Ti}_{2/3}\text{O}_2$  Investigated by Picosecond Time-resolved XAFS

\*Dongxiao FAN<sup>1</sup>, Shunsuke NOZAWA<sup>1</sup>, Kenta WATANABE<sup>2</sup>, Akihiko KUDO<sup>2</sup> (1. Inst. of Materials Structure Sci., KEK, 2. Fac. of Sci., Tokyo Univ. of Sci.)

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