

**Preface**

About science realism

(JST PRESTO Project (Chemical Conversion of Light Energy))

Osamu ITO.....121

**Reviews**

Photochemical responses through multiple excitation and multiphoton absorption processes

(Graduate School of Engineering Science, Osaka University;

Graduate School of Science and Engineering, Ehime University)

Hiroshi MIYASAKA, Yukihide ISHIBASHI.....122

Fluorescent probes for super-resolution imaging

(Graduate School of Medicine, The University of Tokyo;

Graduate School of Pharmaceutical Sciences, The University of Tokyo )

Shin-nosuke UNO, Mako KAMIYA, Yasuteru URANO.....130

**Topics**

Photon-working molecular switches

(Graduate School of Engineering, Yokohama National University)

Yasushi YOKOYAMA.....137

Water-solubilization of porphyrin complexes

(Faculty of Engineering, University of Miyazaki)

Jin MATSUMOTO, Tsutomu SHIRAKAWA, Masahide YASUDA.....142

Orientation-dependent FRET by use of DNA duplex as a scaffold

(Graduate School of Engineering, Nagoya University; JST-PRESTO)

Hiroyuki ASANUMA, Ayako KURIHARA, Hiromu KASHIDA.....146

Photoluminescent organic materials responsive to macroscopic mechanical stimuli

(Graduate School of Engineering, Chiba University)

Shiki YAGAI.....150

Analysis of carrier transport property evaluated by transient photocurrent measurements

for  $\pi$ -conjugated dendrimers

(Sharp Corp.)

Masanobu MIZUSAKI.....154

**Essay**

Photoabsorption process under molecular collision conditions

(Tokyo University of Agriculture and Technology, Tokyo Institute of Technology)

Kazuhiko SHIBUYA.....158

**Reports**

.....160

**Circulars**

.....168

**Announcements**

.....170