

Preface

Sazae-do and Homochirality

(Overseas Business Department, JASCO Corporation)

Koushi NAGAMORI57

Reviews

Oxygen Tension of Living Cells and Tissues Based on Phosphorescence Lifetime Measurements

(Graduate School of Science and Technology, Gunma University)

Toshitada YOSHIHARA58

Organic photoredox catalysts for reductive transformations of organic molecules

(Faculty of Science, Niigata University)

Eietsu HASEGAWA66

Charge-transfer excited states of π - and 4f-orbitals for trivalent Eu complexes

(¹Faculty of Engineering and ²Graduate School of Chemical Sciences and Engineering,
Hokkaido University)

Yuichi KITAGAWA¹, Makoto TSURUI², Yasuchika HASEGAWA¹74

Topics

Direct observation of chemical bond formation process using an ultrafast pulsed X-ray

(High Energy Accelerator Research Organization/The Graduate University for Advanced Studies)

Shunsuke NOZAWA, Shin-ichi ADACHI82

Material development of photon upconversion based on triplet-triplet annihilation

(¹University of Strasbourg, ²Graduate School of Engineering, Kyushu University)

Yoichi SASAKI¹, Nobuhiro YANAI²86

Development of photo-functional nanomaterials

with new properties and their application to bioscience

(Institute for Advanced Co-Creation Studies/SANKEN, Osaka University)

Yasuko OSAKADA90

Essay

.....94

Report

.....97

Circulars

.....99

Announcements

..... 129