## Preface Research is fun. (Research Organization for Nano & Life Innovation, Waseda University) Hideko KOSHIMA .....1 Reviews Recent synthetic development of polyacenes and evaluation of their electric properties (<sup>1</sup>Research Center for Advanced Measurement and Characterization, National Institute for Materials Science <sup>2</sup>Division of Materials Science, Nara Institute of Science and Technology) Hironobu HAYASHI<sup>1</sup>, Hiroko YAMADA<sup>2</sup>......2 Photocatalytic reaction and bright photoluminescence of cerium complexes (Department of Sciences and Informatics, Muroran Institute of Technology) Toshifumi IIMORI ......9 Development of Molecular Photofunctions based on Molecular Magnetism (Institute of Industrial Science, The University of Tokyo) Kazuyuki ISHII ...... 17 Topics Development of Molecular Systems for Near-Infrared Circularly Polarized Luminescence Based on Chiral Dipyrromethene Complexes (Department of Chemistry, Faculty of Science and Technology, Keio University) Hayato SAKAI ...... 24 Accurate photophysical kinetic analysis aimed at advanced TADF molecular design (Center for Organic Photonics and Electronics Research (OPERA), Kyushu University) Youichi TSUCHIYA, Chihaya ADACHI.......... 28 Photoinduced C-H Carboxylation Reactions with CO<sub>2</sub> (Department of Synthetic Chemistry and Biological Chemistry, Kyoto University) Naoki ISHIDA ...... 33 Essays Reports .....41 Circular

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