

The 66th Japan Society of Coordination Chemistry Symposium

S2: Inorganic molecular/supramolecular systems for future photofunctional materials

September 10th, 2016 @ Room S2

Organizers

Akitaka ITO (Kochi Univ. Tech.)

Eri SAKUDA (Nagasaki Univ.)

Junpei YUASA (Tokyo Univ. Sci.)

Abstract

Controlling photofunctionalities of inorganic materials (i.e., light absorption, emission, photoinduced electron/energy transfer, etc.) is of primary importance toward utilization in photochemical applications such as light-emitting, light-harvesting and solar-energy conversion systems. There is a lot of factors to manipulate their properties: combination of a metal center(s) and ligand, intermolecular interaction, dynamic structure change, and so forth. In this symposium, our invited speakers will talk their recent advances in a variety of the photofunctional materials including metal complexes and organic-inorganic hybrids. Systematic understanding through their talks and fruitful discussions will enhance future development of these materials. We strongly believe that topics and aims of this symposium inspire future contributions of many young scientists in this field.

Program

16:50–16:55 Opening Remarks: Akitaka ITO (Kochi Univ. Tech.)

Chair: Yasuo MATSUBARA (Kanagawa Univ.)

(S2-01) 16:55–17:25 Nobuhiro YANAI (Kyushu Univ.)

“Photon Upconversion in Chromophore Arrays Preorganized by Coordination Chemistry”

Chair: Ayumi ISHII (Aoyama Gakuin Univ.)

(S2-02) 17:25–17:55 Takayuki NAKANISHI (Hokkaido Univ.)

“Lanthanide Coordination Clusters with Photo-functional Properties”

Chair: Yusuke TAMAKI (Tokyo Inst. Tech.)

(S2-03) 17:55–18:25 Shin-ya TAKIZAWA (Univ. Tokyo)

“Rational design of bis-cyclometalated Ir(III) complexes toward effective photosensitizers”

Chair: Sho FUJII (Hokkaido Univ.)

(S2-04) 18:25–18:55 Konstantin A. BRYLEV (Siberian Br. Russ. Acad. Sci., Russia)

“Hexamolybdenum and hexarhenium cluster luminophores: On the way from synthesis to applications”

Chair: Masanari HIRAHARA (Nat. Def. Acad.)

(S2-05) 18:55–19:25 Hiroyuki MIYAKE (Osaka City Univ.)

“Dynamic Supramolecular Architecture via Asymmetric Coordination Chemistry”

19:25–19:30 Closing Remarks: Yasuchika HASEGAWA (Hokkaido Univ.)