

## International Symposium on Environmentally Friendly Smart Materials

*Hiroshima Technoplaza (<https://www.h-techno.co.jp/>)*

*August 27, 2017*

### Program

9:30 Opening remark

*Chair: Manabu Shimada*

9:40-10:25 **L1** Tawatchai Charinpanitkul (Chulalongkorn University, Thailand)

“Observation of Carbon Nanoparticle and their Derivative Formation in Pyrolysis of Glycerol and Ferrocene with Isokinetic Sampling”

*Chair: Shinjiro Hayakawa*

10:25-10:50 **L2** Toshinori Tsuru (Hiroshima University, Japan)

“Silica-Based Membranes with Molecular-Net-Sieving Properties: Applications to Catalytic Membrane Reactors”

10:50-11:15 **L3** Kei Inumaru (Hiroshima University, Japan)

“Roles of Interfaces in Nanostructured Composites: Nanocatalysts, Sponge Crystals and Thin Films”

*Chair: Toshinori Tsuru*

11:15-12:00 **L4** Rojrit Rojanathanes (Chulalongkorn University, Thailand)

“Calcium Carbonate Based Nanocomposite for Transdermal Patch”

<Lunch>

*Chair: Kei Inumaru*

13:00-13:25 **L5** Shinjiro Hayakawa (Hiroshima University, Japan)

“XAFS Characterization of Thin Films under the Total Reflection Condition- Polarization Dependence of S K-edge Absorption of Polythiophene Films”

13:25-13:50 **L6** Manabu Shimada (Hiroshima University, Japan)

“One-step Fabrication, Properties, and Photocatalytic Activity of Porous TiO<sub>2</sub>-based Films Consisting of Nanoparticles Deposited in Gas-phase”

*Chair: Takeharu Haino*

13:50-14:35 **L7** Shih-Sheng Sun (Academia Sinica, Taiwan)

“Stimuli-responsive Fluorescent Organogelating Materials”

14:35-15:00 **L8** Yohsuke Yamamoto (Hiroshima University, Japan)

“Hypervalent Sulfur and Selenium Radicals Bearing a Newly Prepared Tridentate Ligand”

<Break>

*Chair: Takeshi Shiono*

15:15-16:00 **L9** Sung-Ho Jin (Pusan National University, Korea)

“Design and Synthesis of Multi-Functional Materials for Highly Efficient Organic & Perovskite Solar Cells”

*Chair: Yohsuke Yamamoto*

16:00-16:25 **L10** Joji Ohshita (Hiroshima University, Japan)

“Si and Ge in  $\pi$ -Conjugated Materials”

16:25-16:50 **L11** Takeharu Haino (Hiroshima University, Japan)

“Supramolecular Copolymers via Self-Sorting of Host-Guest Complexes”

*Chair: Joji Ohshita*

16:50-17:15 **L12** Takeshi Shiono (Hiroshima University, Japan)

“Novel Cycloolefin Copolymers Synthesized by ansa-Fluorenylamide-Ligated Dimethyltitanium Catalysts”

17:15-18:00 **L13** Chang-Sik Ha (Pusan National University, Korea)

“Chitosan Based Bionanocomposites”

18:30- Symposium dinner