

Thursday, November 19, 2013

<ORAL SESSION>

| Introduction & Session A                               |   |   |                        |
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| Chairs: Shinji Tanimori, OPU and Chung-Hung Hsieh, TKU |   |   |                        |
| 9:00 – 9:10  | Opening Remarks   |   | Ikuo Fujii, OPU        |
| 9:10 – 9:30  | IL-1  | Synthesis of functionalized boron-substituted Isocyanides and their Applications  | Po-Shen Pan, TKU       |
| 9:30 – 9:50  | IL-2  | Preparation of Dual Stimuli-Responsive Nanoparticles and Their Applications   | Chie Kojima, OPU       |
| 9:50 – 10:10   | IL-3  | Seed-Mediated Synthesis of Silver Nanoparticles   | Jin-Pei Deng, TKU      |
| 10:10 – 10:30  | IL-4  | Production of Monoclonal Antibodies for Sandwich ELISA Detection of Ciguatoxins   | Takeshi Tsumuraya, OPU |
| 10:30 – 10:50  | IL-5  | Real-time Monitoring of Water Quality by Using Liquid Crystal-based Sensor System   | Chih-Hsin Chen, TKU    |
| 10:50 – 11:10  | IL-6  | Near infrared spectroscopy for water clusters adsorbed on various oxide surfaces  | Masato Takeuchi, OPU   |
| 11:15 – 12:15  | Poster Short Presentations<br>Chairs: Shiho Tokonami, OPU and Chih-Hsin Chen, TKU |   |                        |
| 12:15 – 14:15  | Lunch & Poster Presentations  |   |                        |
| Session B  |   |   |                        |
| Chairs: Toshio Asada, OPU and Po-Shen Pan,TKU          |   |   |                        |
| 14:15 – 14:35  | IL-7  | Base-Promoted Tautomerization of Imidazoles to N-Heterocyclic Carbenes (NHCs): via a Dinitrosyl Iron Platform                                 | Chung-Hung Hsieh, TKU  |
| 14:35 – 14:55  | IL-8  | Controlled Synthesis of Rare Earth Nanoparticles and Vanadium Polyoxometalate Clusters Coordinated by Heteroatom-containing Organic Compounds | Akihiro Nomoto, OPU    |
| 14:55 – 15:15  | IL-9  | A novel theoretical study of thermally-induced reaction and vibration dynamics of Methanol dissociative adsorption onto Si(001)               | Jyh-Shing Lin, TKU     |
| 15:15 – 15:35  | IL-10   | Straightforward Synthesis of Polyfunctionalized Hydroxybenzoate Derivatives Using 7-Oxanorborna-2,5-dienes                                    | Motohiro Sonoda, OPU   |

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| 15:35 – 15:55  | IL-11           | Corrosion resistance enhanced by amine inhibitors for the polyaniline growing on a carbon steel in a phosphate buffer solution  | Huey-Chuen I. Kao, TKU |
| 15:55 – 16:15  | IL-12           | Development of Catalytic Enantioselective Synthesis of Planar-Chiral Transition Metal Complexes and Application to Asymmetric Reactions                                 | Ken Kamikawa, OPU      |
| 16:15 – 16:35  | Coffee Break    |   |                        |
| Session C<br>Chairs: Kohki Akiyama, OPU and Yau-Hung Chen, TKU |                 |   |                        |
| 16:35 – 16:55  | IL-13           | Azo-Bridged Cyclophane and Acyclophane of Phenanthroline: Syntheses, Structure and Applications   | Wen-Jwu Wang, TKU      |
| 16:55 – 17:15  | IL-14           | BIOREDUCTION SYSTEM FOR LARGE-SCALE PRODUCTION OF CHIRAL COMPOUNDS  | Michihiko Kataoka, OPU |
| 17:15 – 17:35  | IL-15           | Zebrafish is an effective model for screening antioxidants and nephroprotective compounds   | Yau-Hung Chen, TKU     |
| 17:35 – 17:55  | IL-16           | A CAPILLARY-BASED SINGLE-STEP IMMUNOASSAY MICRO DEVICE USING LIPOPHILIC FLUORESCENT SU  | Hideaki Hisamoto, OPU  |
| 17:55 – 18:15  | IL-17           | Enzyme Inhibitors from Vietnamese Medicinal Plants  | San-Lang Wang, TKU     |
| 18:15 – 18:35  | IL-18           | Site-selective C-H to C-C Conversion by Radicals  | Ilhyong Ryu, OPU       |
| 18:35 – 18:55  | IL-19           | Electronical and Photophysical Properties of Bended D-T-A-T-D Derivatives for Small Molecular Organic Photovoltaic (SM-OPV) Solar Cells: A DFT and TD-DFT Investigation | Bo-Chen Wang, TKU      |
| 18:55-19:00  | Closing Remarks |   | Akiya Ogawa, OPU       |
| 19:00 – 21:00  | Banquet         |   |                        |

Friday, November 20, 2015

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| 10:00 – 12:00 | Campus Tour     |                 |
| 12:00 – 12:10 | Closing Remarks | Ikuo Fujii, OPU |

<POSTER SESSION>

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| P - 1  | Purification and characterization of chitosanases from <i>Bacillus mycoides</i> TKU038  | Wei-Ting Chen, TKU   |
| P - 2  | Synthesis and Evaluation of uniform-sized silica nanospheres by using basic amino acids   | Yuki Ueoka, OPU      |
| P - 3  | pH-Sensitive polymer-modified liposomes incorporated with adjuvants for cancer immunotherapy  | Yuta Yoshizaki, OPU  |
| P - 4  | Water-soluble ions in PM2.5 and influencing factors on their compositions in urban areas of Ho Chi Minh and Osaka   | Duong Huu Huy, OPU   |
| P - 5  | Electrochemical Glycerol Oxidation Activity of Shape-Controlled Pd Nanoparticles  | Masahiro Kuzawa, OPU |
| P - 6  | Production of $\alpha$ -glucosidase inhibitors by a bacteria strain TKU037  | Po-Hao Shih, TKU     |
| P - 7  | Rh-Catalyzed Reaction of 1-Naphthoic Acids with Alkynes Leading to Perinaphthenones via C-H Bond Cleavage at a peri Position                                | Taiki Sugimori, OPU  |
| P - 8  | Angularly-Fused Thienobis[1]benzothiophene and Its Charge-Transfer Cocrystal with 7,7,8,8-tetracyanoquinodimethane  | Takuya Ogaki, OPU    |
| P - 9  | Effect of second phase on the microstructure of extruded Mg-Al-Mn-Ca-Sr alloys  | Yuichi Sonobe, OPU   |
| P - 10 | Structural and Functional Analysis of Antibody 7B9 Catalyzing Hydrolyses of p-Nitrobenzyl Esters  | Naoki Miyamoto, OPU  |
| P - 11 | Production of antioxidants by a bacteria strain TKU036  | Hsin-Ting Li, TKU    |
| P - 12 | Synthesis and evaluation of metal ion doped calcium silicate  | Yuri Naganuma, OPU   |
| P - 13 | Development of pH-sensitive liposomes using hyaluronic acid derivatives for intracellular drug delivery   | Maiko Miyazaki, OPU  |
| P - 14 | Design, synthesis, and characterization of lipophilic fluorescent substrate for use in plasticized poly(vinyl chloride) membrane-based single step bioassay | Koki Kishi, OPU      |
| P - 15 | High-Voltage Aqueous Hybrid capacitors Using Zinc Negative Electrode  | Kentaro Konishi, OPU |
| P - 16 | Fermentation of squid pen for the production of chitosanases by a bacteria strain TKU039  | Chun-Ku Chen, TKU    |
| P - 17 | Effects of Fe and Zr on recrystallization in high-purity binary Al alloys   | Koji Wada, OPU       |
| P - 18 | Synthesis of a Phosphine-Olefin Ligand Based on a Transition Metal Scaffold: Application to Asymmetric Reactions  | Ya-Yi Tseng, OPU     |
| P - 19 | Electronic Properties and Structural analysis for Chiral Carbon   | Chun-Hao Tan, TKU    |

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|        | nanotubes   |                        |
| P – 20 | Synthesis of a Pseudo[2]rotaxane Formed by Hemicryptophane and Cucurbituril   | LEE Hsien-Han, OPU     |
| P – 21 | Double Helical Supramolecules with Silver Cluster Core  | Yi-Cheng Li, TKU       |
| P – 22 | Flow injection chemiluminescence determination of hypochlorite ion in water   | Do Thi Kim Hue, OPU    |
| P – 23 | Preparation of dendrimer-gold nanohybrids for photothermal chemotherapy   | Takuya Hashimoto, OPU  |
| P – 24 | Double Sweeping for a Simple and Highly Sensitive Electrophoretic Bioassay Microdevice  | Ryota Sanuki, OPU      |
| P – 25 | Electrochemical Glycerol Oxidation Reaction with Various Metal Electrodes   | Yuki Teraoka, OPU      |
| P – 26 | Multiplex Detection of Metal Ions by Using Liquid Crystal-based Sensor System   | Wei-Long Chen, TKU     |
| P – 27 | Improving surface characteristics of titanium-based materials for implants by anodization   | Masashi Okuno, OPU     |
| P – 28 | Influence of alloying transition elements on phase stability and elastic moduli of bcc Ti-X alloys from first-principles calculations                                 | Atsushi Koyano, OPU    |
| P – 29 | Nephroprotective role of Bu Zhong Yi Qi decoction in aristolochic acid intoxicated zebrafish  | Kang-Chieh Lo, OPU     |
| P – 30 | Effective cellular uptake of exosomes by modification with arginine-rich peptides   | Kosuke Noguchi, OPU    |
| P – 31 | Liquid Crystal Droplets for Real-Time Detection of Mercuric(II) ion in Water  | Ru-Han Yang, TKU       |
| P – 32 | [2+2] Photocycloaddition of coumarin derivatives with fullerene   | Miho Hayama, OPU       |
| P – 33 | Preparation of hollow nanocapsules entrapping cationic sonosensitizers for sonodynamic therapy  | Ryoma Teranishi, OPU   |
| P – 34 | Fabrication of plasmonic crystal based on nanoimprint lithography and its application for high sensitive label-free biosensor   | Kiichi Nishiguchi, OPU |
| P – 35 | Electrochemical Impedance Characterization of Electrode Reaction at Sulfide-Based Solid Electrolyte/Positive Electrode Active Material Interface with Microelectrodes | Hiroyuki Nanahara, OPU |
| P – 36 | Hyaluronic acid-assisted synthesis of silver nanowires  | Shin-Hau Li, TKU       |
| P – 37 | Effect of Si impurities on room temperature superplasticity in Zn-Al eutectoid alloy  | Daijiro Ito, OPU       |

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| P – 38 | Selection of Anti-VEGF Microantibodies from Phage-displayed Peptide Library   | Miho Suzuki, OPU       |
| P – 39 | Catalytic Asymmetric Synthesis of Axially Chiral Phosphinobiaryls by C-H Functionalization  | Rie Yasuda, OPU        |
| P – 40 | Structure and Synthesis of a Heteroditopic Hemicryptophane Host   | Katayama Natsuki, OPU  |
| P – 41 | Phosphine/Thiolate Containing Dinitrosyl Cobalt Complexes (DNCCs): Synthesis, Characterization and X-ray Diffraction Identification | Wen-Chieh Chang, TKU   |
| P – 42 | The synthesis of useful materials from volcanic ash and its evaluation  | Naoto Shiota, OPU      |
| P – 43 | Effective counter ion condensation of TiO <sub>2</sub> nanoparticles-incorporated polyion complex micelles                          | Satoshi Yamamoto, OPU  |
| P – 44 | Synthesis of multiple boron-containing analogs via multicomponent reactions   | Hsien-Chi Chen, TKU    |
| P – 45 | Development of Electrolyte for Rechargeable Aluminum Battery with a Wide Potential Window   | Shota Matsumura, OPU   |
| P – 46 | Synthesis and Characterization of Manganese(I) N-Heterosyclic carbenes(NHC)/Phosphine(PR <sub>3</sub> ) Carbonyl Complexes          | Po-Wei Huang, TKU      |
| P – 47 | Red Exciplex Emission of Mixed Crystals Composed of Two Different Diaroylmethanoboron Difluorides                                   | Shota Nishida, OPU     |
| P – 48 | High temperature compressive deformation behavior in AC8A aluminum matrix composites with discontinuous FeCrSi f                    | Yoshiaki Aoki, OPU     |
| P – 49 | CHEMICAL MODIFICATION OF GRAPHENE OXIDE AND DEVELOPMENT OF SINGLE-STEP COMPETITIVE BIOASSAY DEVICE                                  | Kaho Nakashima, OPU    |
| P – 50 | Non-invasive image analysis of brain blood capillary endothelial cells damaged by cadmium ion                                       | Megumi YOKOTA, OPU     |
| P – 51 | Electrochemistry of Dinitrosyl Iron/Cobalt Complexes: Relevant to the Electrocatalytic Hydrogen Evolution                           | Wan-Ting Du, TKU       |
| P – 52 | Synthesis of a Double Helicene by a Palladium-Catalyzed Cross-Coupling Reaction : Structure and Physical Properties                 | Hitoshi Kashiwara, OPU |
| P – 53 | Size-controlled highly-crystalline molecular nanosheets assembled at air/liquid interfaces  | Azusa Taniguchi, OPU   |
| P – 54 | Theoretical Study for Electronic and Photophysical Properties of DPI Derivatives for Dye-Sensitized Solar Cell (DSSC)               | Ken-Hao Chang, TKU     |
| P – 55 | Preparation of Micro-Cavities for Cancer Cell Detection   | Koji Numada, OPU       |

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| P - 56 | HIGHLY SENSITIVE ENZYME ACTIVITY ASSAY BASED ON<br>ISOELECTRIC FOCUSING USING BIFUNCTIONAL FLUORESCENT<br>SUBSTRATES AND REAGENT-RELEASE HYDROGELS | Kasumi Sugawara,<br>OPU |
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