

2015 IMCE International Symposium

jointed with the 4th International Symposium of
Nano-Macro Materials, Devices, and System Research Alliance Project

Organized by: *Institute for Materials Chemistry and Engineering*, and
Nano-Macro Materials, Devices, and System Research Alliance

Co-organized by: *Research and Education Center of Carbon Resources*,
Green Asia Education Center, and

Research and Education Center for Advanced Energy Materials, Devices, and Systems

DATE: Jan. 28th (Wed), 2015

VENUE: Chikushi Hall (C-CUBE) 1F, Chikushi Campus, Kyushu University

Time	Title	Presenter
9:00-9:10	Opening Address	Atsushi Takahara
Keynote Lecture (Chair: Kaoru Tamada)		
9:10-9:50	Keynote Lecture: Trends in Low Dimensional Materials Research: Case Study of 2D Materials	Andrew T.S. Wee (National University of Singapore)
G1 Session (Chair: Shiyoshi Yokoyama)		
10:00-10:40	Resonant Energy Transfer between Structured GaN Quantum Well and CdSe Colloidal Quantum Dots	Xingsheng Xu (Chinese Academy of Sciences)
10:40-11:10	Quantum Metrologies using Entangled Photons	Shigeki Takeuchi (Kyoto University)
11:10-11:30	Novel Electro-optic Polymer / Titanium Dioxide Modulators	Qiu Feng (Kyushu University)
Lunch and Poster Session (Chair: Satoru Kidoaki)		
11:30-13:40	17 Posters (Please see the next page), Core time of Poster session is 12:10-13:40	
G2 Session (Chair: Shigeto Okada)		
13:40-14:20	New Dimensions in Energy Storage	Duncan H. Gregory (University of Glasgow)
14:20-14:50	Systematic Material Design and Development for Fuel Cells	Takeo Yamaguchi (Tokyo Institute of Technology)
14:50-15:10	Effect of Side and End Groups on Carbonate Oligomer-Based Polymer Solid Electrolytes	Ken Kojio (Kyushu University)
G3 Session (Chair: Mitsuru Shindo)		
15:20-16:00	Therapeutic Uses of Atmospheric Pressure Plasma	Jennifer H. Shin (Korea Advanced Institute of Science and Technology)
16:00-16:30	Regulation of Structure and Function of Nucleic Acids by Small Molecules: Application to the Real Time Monitoring of PCR Progress	Kazuhiko Nakatani (Osaka University)
16:30-16:50	Structural Analysis of a Single Molecule in Aqueous Solutions	Sou Ryuzaki (Kyushu University)
G4 Session (Chair: Jun-ichiro Hayashi)		
17:00-17:30	Synthesis of Carbon Materials by Plasma Discharge in Ultrasonic Cavitation Field of Organic Solvents	Etsuro Shibata (Tohoku University)
17:30-17:50	Development of New Method for Thermochemical Conversion of Biomass into Chemicals	Shinji Kudo (Kyushu University)
17:50-18:00	Closing Remarks	Hideo Nagashima

11:20 – 13:00 Program of Poster session

Poster No.	Title	Presenter
P01	Growth Dynamics of Single-Layer Graphene on Epitaxial Cu Surfaces	Yujiro Ohta (M2, Ago Lab)
P02	Three-Dimensional Photonic Lattice of Blue Phase Observed by Confocal Laser Scanning Microscope	Wen Ying (M2, Kikuchi Lab)
P03	Preparation of the High-Performance Electro-Optics Polymer by the High Solubility Chromophores	Hiroki Miura (M2, Yokoyama Lab)
P04	Effect of Carbon Material Properties on Temperature Rising during MAS-NMR Measurements	Koichiro Hata (D2, Miyawaki Lab)
P05	Electrochemical Performances of Aqueous Sodium and Magnesium Hybrid Ion Battery	Kosuke Nakamoto (D1, Okada Lab)
P06	Synthesis of Ag@Pd/TiO ₂ Catalysts in an Aqueous Solution for the Hydrogen Generation from Decomposition of Formic Acid at Room Temperature	Daisuke Shimamoto (M1, Tsuji Lab)
P07	Enhanced Photoluminescence from InGaN Quantum Well with Aluminum	Kazutaka Tateishi (M2, Okamoto Lab)
P08	Cation Doping Effects for Li ₃ V ₂ (PO ₄) ₃ Electrodes in All-Solid-State Symmetric Li-ion Battery	Yongho Kee (D2, Okada Lab)
P09	Quantitative Correlational Analysis of Traction Force and Differentiation Expression Marker on Mesenchymal Stem Cells	Kosuke Hamano (M2, Kidoaki Lab)
P10	Design of Inorganic Drug Nanocarriers Based on Selectively Modified Halloysite Nanotubes	Di Tao (D3, Takahara Lab)
P11	The Development of Aerobic Oxidative Biaryl Coupling using Heterogeneous Catalyst	Shigenobu Fujimoto (D2, Shindo Lab)
P12	New Design of Colorimetric Plasmon Biosensor with Multilayered Metallic Nanoparticle Sheets	Shuhei Shinohara (M2, Tamada Lab)
P13	Upgrading of Biomass and Lignite by Treatment in Acidic Aqueous Media	Karnowo (D3, Hayashi Lab)
P14	Substituent Effects of Iron(TACN) Catalysts for Atom Transfer Radical Polymerization	Soichiro Nakanishi (D2, Nagashima Lab)
P15	Development of Hydrazonecomplex Salt Exhibiting Proton Transfer	Takumi Nakanishi (D2, Sato Lab)
P16	Planar Chiral 4-[7] Orthocyclophene	Kouhei Machida (D2, Tomooka Lab)
P17	Enantioselective Synthesis of Silacyclopentenol and Its Transformation	Yoshihiro Daisuke (D2, Tomooka Lab)

19:00 – 21:00 Banquet at Hotel Centraza Hakata 2F
(JR Ohnojo St. 18:35→JR Hakata St. 18:45)