

JGP-Chem & ChemEn 1st International Research Workshop for Students - Microfluidics 2016 in Kyoto Univ. and POSTECH

Date: 10:00, 26th (Fri) Feb. 2016

Location: A2-306, Katsura Campus, Kyoto University

Speakers: 16 students (8 from Kyoto Univ + 8 from POSTECH, Korea)

Presentation: 20 min (Oral speech + Discussion)

Program:

| No | Time | Name | Title |
|--|-------------|--------------------------|--|
| | 10:00-10:10 | Prof. Hasebe | Opening speech |
| | 10:10-10:20 | Prof. Kim | Lab Introduction |
| 1st Session (Chair: Kim, Heejin) | | | |
| 1 | 10:20-10:40 | Min, Kyoung-Ik | Polyimide Film Based Microreactor and its Application |
| 2 | 10:40-11:00 | Onabe, Youjiro | Estimation of Gas and Liquid Slug Lengths for Parallel T-shaped Microreactors |
| 3 | 11:00-11:20 | Ko, Dong-Hyeon | In-Contact Flow Performance of Gas and Liquid Streams in a Superamphiphobic Silicon-Nanowire-Embedded Microsystem |
| 4 | 11:20-11:40 | Nakamura, Makoto | Evaluation of Band Dispersion in Micro-LC with Micro-fabricated 3D Structures |
| 5 | 11:40-12:00 | Jeong, Guan-Young | Microfluidic Syntheses of Metal-Organic Frameworks (MOFs) and Catalytic Applications |
| 6 | 12:00-12:20 | Osaki, Shunji | Microreactor Flow Synthesis of Metal-Organic Framework Particles with Controlled Size, Shape and Adsorption Properties |
| | 12:20-13:30 | <i>Lunch (B-Cluster)</i> | |
| 2nd Session (Chair: Jeong, Guan-Young) | | | |
| 7 | 13:30-13:50 | Gyak, Ki Won | Multi-shelled Metal-Organic Framework Hollow Spheres by Microfluidic Droplet Assay |
| 8 | 13:50-14:10 | Oya, Tomokazu | Control of Indomethacin Polymorph and the Particle Size via Rapid Mixing of Anti-solvent |
| 9 | 14:10-14:30 | Kim, Jin-Oh | Direct Fabrication of Free-Standing MOF Superstructures via Micro-Confined Interfacial Synthesis |
| 10 | 14:30-14:50 | Yoshida, Yukiko | Control of Sample Concentration in Microchannels Using Electrokinetic Trapping |
| 11 | 14:50-15:10 | Jang, Seungwook | Enhanced Multi-Phase Reaction via Superhydrophobic and Bubble Microsystem |
| | 15:10-15:30 | <i>Coffee Break</i> | |

| 3rd Session (Chair: Hirose, Katsuyuki) | | | |
|--|-------------|----------------------|--|
| 12 | 15:30-15:50 | Hirose, Katsuyuki | Generation and Reactions of Perfluoroalkyl-Substituted Organolithiums Using Flow Microreactors |
| 13 | 15:50-16:10 | Hwang, Yoon-Ho | Heterogeneous PdAg Alloy Catalyst for Selective Methylation of Aromatic Amines with Formic Acid Under Additive-Free and Solvothermal One-Pot Condition |
| 14 | 16:10-16:30 | Kitamura, Takaaki | Three-Component Coupling Reaction Based on Flash Chemistry |
| 15 | 16:30-16:50 | Lee, Hyune-Jea | Flow-Assisted Synthesis of [10]Cycloparaphenylene (CPP) via Serial Microreactor |
| 16 | 16:50-17:10 | Inoue, Keita | Control of Fries-Rearrangement Using Flow Microreactor |
| | 17:10-17:20 | Prof. Yoshida | Closing speech |
| | 17:20-18:00 | | Lab Tour & Discussion |
| | 18:00-20:00 | | <i>Dinner (A2-217)</i> |