

SNU – KYUSHU JOINT SYMPOSIUM **Satellite Session**

• **Session Theme** Materials Science for Energy Applications

• **Date & Time** June 23rd & 10:00 – 17:00

• **Organized by** (SNU)
Myoung-Gyu Lee, Professor
 (Kyushu)
Keiji Tanaka, Professor

• **Time Schedule**

| Time | Specific Schedule | Speaker |
|-------------------------------|---|-----------------------------|
| 10:00-10:10 | Opening | Prof. Myoung-Gyu Lee |
| Session 1 (Chair: TBD) | | |
| 10:10-10:40 | Nanostructured Electrocatalysts for Electrochemical CO ₂ Conversion | Prof. Jun Tae Song (KU) |
| 10:40-11:10 | Methodology for surface functionalization and phase transition of 2D materials | Prof. Gwan-Hyoung Lee (SNU) |
| 11:10-11:40 | Evaluation and optimization of heterogeneous electrode structure in secondary batteries and fuel cells by numerical analysis and direct observation | Prof. Gen Inoue (KU) |
| 11:40-12:10 | Permselective metal-organic framework gel membrane enables ultralong-life cycling of rechargeable organic batteries | Prof. Kisuk Kang (SNU) |
| 12:10-13:30 | Lunch | |
| Session 2 (Chair: TBD) | | |
| 13:30-14:00 | Si-based water splitting photoelectrodes conjugated with earth-abundant transition metal-based catalysts | Prof. Ho Won Jang (SNU) |
| 14:00-14:30 | Inverted Stranski-Krastanov Growth of ZnO Based Semiconductors for Excitonic Devices | Prof. Naho Itagaki (KU) |
| 14:30-15:00 | Soft artificial electroreceptors for non-contact spatial perception | Prof. Jeong-Yun Sun (SNU) |
| 15:00-15:10 | Break | |

Session 3 | Materials Science for Energy Applications

| Time | Specific Schedule | Speaker |
|-------------------------------|---|-------------------------------|
| Session 3 (Chair: TBD) | | |
| 15:10-15:40 | Electric Power Generation from Waste Heat without Temperature Gradient | Prof. Shinji Munetoh (KU) |
| 15:40-16:10 | Highly Efficient and Stable Perovskite/Si Tandem Solar Cells | Prof. Jin Young Kim (SNU) |
| 16:10-16:40 | Fabrication of thermoelectric generation device using carbon nanotube sheets. | Prof. Tsuyohiko Fujigaya (KU) |
| 16:40-16:50 | Closing | Prof. Keiji Tanaka |