

Symposium 10: Young Scientists Forum on Future Energy Materials and Devices

February 24 (TUE)

| Time | Program | |
|-------------|---|---|
| | [S10-1] Young Scientists Forum on Future Energy Materials and Devices | |
| | Chair: Lee, Doh Chang (KAIST) | |
| 13:30-14:00 | [2105194] Three-dimensional nanostructured materials for energy harvesting applications | Kim, Jong Kyu (POSTECH) |
| 14:00-14:30 | [2143545] SOLAROGENIX - Visible Light Active Metal Oxide Nano-catalysts for Sustainable Solar Hydrogen Production | Fisher, Thomas (University of Cologne) |
| 14:30-15:00 | [2090779] Development of Hybrid Nanomaterials for Energy Storage Applications | Wang, Donghai (Penn State University) |
| 15:00-15:20 | [2111588] Photoelectrochemical production of useful fuels from carbon dioxide on polypyrrole coated p-ZnTe photocathode under visible light irradiation | Won, Da Hye (KAIST) |

February 25 (WED)

| Time | Program | |
|-------------|--|--|
| | [S10-2] Young Scientists Forum on Future Energy Materials and Devices | |
| | Chair: Fisher, Thomas (University of Cologne) | |
| 09:00-09:30 | [2113992] High-extraction-efficiency GaInN light-emitting diodes with controllable emission patterns | Cho, Jaehee (Chonbuk National University) |
| 09:30-10:00 | [2126630] Growth and doing of In-based nitride semiconductors using DERI method | Yamaguchi, Tomohiro (Kogakuin University) |
| 10:00-10:30 | [2089935] Sharp red light-emitting diodes using optical site selected Eu doped GaN active layer | Sekiguchi, Hiroto (Toyoashi University of Technology) |

| Time | Program | |
|-------------|--|---|
| | [S10-3] Young Scientists Forum on Future Energy Materials and Devices | |
| | Chair: Yu, Taekyung (Kyung Hee University) | |
| 10:50-11:20 | [2089660] Controlled synthesis of nanostructured composite materials for supercapacitors | Lu, Xianmao (National University of Singapore) |
| 11:20-11:50 | [2089816] Facile aqueous phase routes to the economical synthesis of metal nanoparticles | Yu, Taekyung (Kyung Hee University) |
| 11:50-12:10 | [2111621] Improvement of Photocatalytic Performance of Silver Vanadate Under Visible Light Irradiation | Wangkawong, Kanlayawat (Chiang Mai University) |

| Time | Program | |
|-------------|--|--|
| | [S10-4] Young Scientists Forum on Future Energy Materials and Devices | |
| | Chair: Cho, Jaehee (Chonbuk National University) | |
| 13:30-14:00 | [2089694] Flexible CdTe/CdS solar cells on glass substrates | Kim, Jihyun (Korea University) |
| 14:00-14:30 | [2102307] Multiscale Strategy for Nanoarchitected Polymeric Membranes toward Tunable Separation Properties | Yoo, Pil (Sungkyunkwan University) |
| 14:30-15:00 | [2113707] Toward realistic 3D topography simulation of semiconductor fabrication processes | Im, Yeon Ho (Chonbuk National University) |

| | | |
|-------------|--|---|
| 15:00-15:30 | [2090819] Excitonic absorption on AlGaAs/GaAs superlattice solar cells | Nishinaga, Jiro (National Institute of Advanced Industrial Science and Technologies) |
|-------------|--|---|

February 26 (THU)

| Time | Program | |
|-------------|--|---|
| | [S10-5] Young Scientists Forum on Future Energy Materials and Devices | |
| | Chair: Han, Jeong Woo (University of Seoul) / Kim, Woo-Jae (Gachon University) | |
| 13:30-14:00 | [2102281] Influence of Composition in Carbon Nanotube-Fuel Composites on the Exothermic Reaction of Fuels | Kim, Woo-Jae (Gachon University) |
| 14:00-14:30 | [2089638] Fast Screening of Catalytic Activities on a Wide Range of Binary Transition Metal Alloys: Universality in Surface Mixing Rule of Adsorption Strength | Han, Jeong Woo (University of Seoul) |
| 14:30-15:00 | [2111579] Synthesis of Fluorescent Carbon Nanoparticles and their Application | Kwon, Woosung (POSTECH) |
| 15:00-15:30 | [2114338] Catalytic and Antioxidant Performance of Mesoporous Silica/Ceria Composites | Cho, Eun-Bum (Seoul National University of Science and Technology) |

| Time | Program | |
|-------------|--|--|
| | [S10-6] Young Scientists Forum on Future Energy Materials and Devices | |
| | Chair: Kwon, Woosung (POSTECH) | |
| 15:50-16:20 | [2105182] Vapor phase preparation of Sn-based organometal halide perovskite | Jung, Min-Cherl (Okinawa Institute of Science and Technology Graduate University) |
| 16:20-16:50 | [2090811] Anodic TiO ₂ nanotubes based solar cells | Rho, Won-Yeop (Chonbuk National University) |
| 16:50-17:10 | [2125555] A Comparative study of Hydrothermally and Ultrasonically Synthesized Cu-BTC | Israr, Farrukh (Jeju National University) |
| 17:10-17:30 | [2111560] Ultrasonic assisted cyclic microwave irradiation synthesis of CeVO ₄ nanocrystals and their photocatalytic activity | Pichai, Supakit (Chiang Mai University) |