

## GCIM S15 - KJMST2024 Program

**Jun 9th (Sun)**

ICC Jeju Room 402

KJMST2024 Opening						Session Chair	
13:00~13:10							
13:10~13:40	Invited	IN-S15-0221	Mitsuya Motohashi	Tokyo Denki University	Fabrication of Silicon Micro/nanostructures by Anodization and their Surface Analysis	Do-Kyun Kwon (Korea Aerospace University)	
13:40~13:55	Oral	OR-S15-0377	Kyyoul Yun	Gifu university	Determining an appropriate sampling frequency considering the rise time of the SiC inverter		
13:55~14:10	Oral	OR-S15-0382	Junya Kameyama	Gifu University	Effect of Laminated Core Size on Magnetic Properties under Inverter Excitation with Flux Density Waveforms Matching Condition		
14:10~14:40	Invited	IN-S15-0314	Sooim Shin	Chonnam National University	ELP-derived nanoparticles, Hemoglobin-based oxygen carrier, Artificial blood		
14:40~14:50	Break						
14:50~15:20	Invited	IN-S15-0581	Yohan Yoon	Korea Aerospace University	Real Time Observation of Halide Segregation and defect characterization in Mixed Halide Perovskite Solar Cells	Aichi Yamashita (Tokyo Metropolitan University)	
15:20~15:50	Invited	IN-S15-0231	Tae Woong Kim	KONKUK UNIVERSITY	Phase Control of Organometal Halide Perovskite for Development of Next-Generation Photovoltaic Devices		
15:50~16:20	Invited	OR-S15-0138	Yukihiro Sakamoto	Chiba Institute of Technology	Preparation of B-doped CVD diamond and its electrochemical applications		
16:30~17:50	Poster Presentation						
18:00~	KJMST committee meeting						

**Jun 10th (Mon)**

ICC Jeju Room 402

						Session Chair	
08:30~09:00	Invited	IN-S15-0375	Sungwook Mhin	Kyonggi University	Enhanced oxygen evolution reaction in alkaline water splitting using (Ni,Fe)-based oxides decorated on surface-modified carbon nanotubes	Yohan Yoon (Korea Aerospace University)	
09:00~09:30	Invited	IN-S15-0026	Shigeto Hirai	Kitami Institute of Technology	Strongly correlated oxygen evolution catalysts and their recent progress		
09:30~09:45	Oral	OR-S15-0052	Futoshi Matsumoto	Kanagawa University	Enhancement of Oxygen Reduction Reaction Activity of Pt by Tuning its d-Band Center via Transition Metal Oxide Support Interactions		
09:45~09:55	Break						
09:55~10:25	Invited	IN-S15-0760	Hanwool Yeon	GIST	Tailoring memristors through metallization on amorphous thin films	Shigeto Hirai (Kitami Institute of Technology)	
10:25~10:40	Oral	OR-S15-0027	Mizuki Matsuzaka	Keio University	Fabrication of nanoscale junctions using high-mobility molecules and their structural, electrical and magnetic properties		
10:40~10:55	Oral	OR-S15-0020	Masanori Nagao	University of Yamanashi	Investigation of iridium solubility into $\beta$ -Ga <sub>2</sub> O <sub>3</sub> single crystals by floating zone method		
11:00~11:20	GCIM Opening Ceremony						
11:20~12:00	GCIM Plenary Lecture (Prof. Wei Gao, Cal Tech)						
13:30~14:00	Invited	IN-S15-0071	Yasushi Inoue	Chiba Institute of Technology	Fabrication of Microvillus-like Structured Oxide Films by Glancing-angle Deposition in Reactive Plasma Processes	Hanwool Yeon (Gwangju Institute of Science and Technology)	
14:00~14:30	Invited	IN-S15-0201	Aichi Yamashita	Tokyo Metropolitan University	Development of High-entropy-type superconductors and thermoelectric materials		
14:30~14:45	Oral	OR-S15-0016	Yoichi Kamihara	Keio Univ.	Thermoelectric properties of a mixed anion layered compound, LaCuChO (Ch = S, Se) with copper defects		
14:45~15:00	Oral	OR-S15-0547	TaeYeong Song	Korea Aerospace University	Enhancing Dielectric Properties of BT-BNTN Ceramic through Core-Shell Microstructure Formation using Fast Firing Sintering		
15:00~15:10	Break						
15:10~15:40	Invited	IN-S15-0032	Masaya Fujioka	AIST	Diffusion control methods for synthesizing metastable materials.	Yoichi Kamihara (Keio University)	
15:40~16:10	Invited	IN-S15-0031	Byung-Koog Jang	Kyushu University	Optical Characterization and Fabrication of Transparent Y <sub>2</sub> O <sub>3</sub> by Spark Plasma Sintering		
16:10~16:20	KJMST2024 Closing / Group Photo						
16:30~17:10	GCIM Plenary Lecture (Prof. Andrey Rogach, City University of Hong Kong)						
17:10~18:30	GCIM Poster Presentation						
18:30~	KJMST2024 Dinner						