



東北大学金属材料研究所
先端エネルギー材料理工共創研究センター



Institute for Materials Research, Tohoku University
Collaborative Research Center on Energy Materials (E-IMR)

E-IMR International Workshop 2024

2024.11.26 (Tue)

12:55 – 17:30



Maximization of solar energy utilization and innovative materials for heat, electricity, and hydrogen storages

Venue

Institute for Materials
Research, Tohoku
University Auditorium,
Bldg. 2(Online)

Free of charge

Click here to register



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【 Contact us 】

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私たちは持続可能な開発目標（SDGs）を支援しています

E-IMR International Workshop 2024 11.26 Thu. 12:55-17:30

Hours	Content & Speakers
12:40	opening
12:55 - 13:05	Opening Remarks Tetsu Ichitsubo [Center Director, E-IMR Center]
【research publication】	
13:05 - 13:20	「On the dynamics of magnets and ferroelectrics」 Bauer Gerritt E.W [Solar Energy Conversion Materials Research Unit / Advanced Institute for Materials Research Professor]
13:20 - 13:45	「Recent Progresses in Skyrmionic Materials and Devices」 Wanjun Jiang [Tsinghua University Professor]
13:45 - 14:00	「Dissociative Oxygen Adsorption and Incorporation in Co_3O_4 -Dispersed PCFC Cathodes」 Hitoshi Takamura [Energy Storage Materials Research Unit / School of Engineering Tohoku University Professor]
14:00 - 14:25	「Revealing the Surface Termination Effect of Perovskite for Oxygen Exchange Reaction」 Di Chen [Tsinghua University Associate Professor]
14:25 - 14:50	「Mobility and clustering of O and anion vacancies in perovskites as energy materials」 Francesco Cordero [CNR-ISM Istituto di Struttura della Materia Primo Ricercatore]
14:50 - 15:00	Break (10 minutes)
15:00 - 15:15	「Nanostructure and chemical state imaging of energy materials by coherent X-ray diffraction」 Yukio Takahashi [Materials Evaluation and Analysis Research Unit / International Center for Synchrotron Radiation Innovation Smart Professor]
15:15 - 15:30	「Layered Manganese Dioxide as a Heat-Storage Material Utilizing Environmental Water Vapor」 Norihiro Okamoto [Solar Energy Conversion Materials Research Unit / Institute for Materials Research Associate Professor]
15:30 - 15:45	「A new AB ₃ -based alloy with reversible hydrogen absorption and desorption reactions and less degradation」 Toyoto Sato [Energy Storage Materials Research Unit / Institute for Materials Research Associate Professor]
15:45 - 16:00	「Interface Design for Room-Temperature Rechargeable Magnesium Batteries with Transition Metal Oxide Cathodes」 Hongyi Li [Solar Energy Conversion Materials Research Unit / Institute for Materials Research Project Assistant Professor]
16:00 - 16:10	Break (10 minutes)
16:10 - 16:35	「Recent advances of silicon crystal for solar cells」 Deren Yang [Zhejiang University Professor]
16:35 - 17:00	「Probing the Multipolar Structure of Berry Curvature in Magnetization Space by the In-plane Anomalous Hall Effect」 Dazhi Hou [University of Science and Technology of China Professor]
17:00 - 17:25	「Formation Rate as a Key Factor in Enhancing the Stability of Anode-Less Lithium Metal Batteries」 Michael De Volder [University of Cambridge Professor]
17:25 - 17:30	Closing Remarks Tetsu Ichitsubo [Center Director, E-IMR Center]