

MRM2025 Poster Award

Symposium	prg_no	title	name	affiliation
A-1	A1-P103-12	Optical Quantification of Ni, Fe, and Co Impurities in Y-Doped BaZrO <sub>3</sub> Sintered Bodies via Colorimetric Evaluation	Kunihiko Shizume	Nagoya Institute of Technology/Kyoto University
A-1	A1-P103-06	Phase Transitions and Physical Properties of Perovskite-type RbNbO <sub>3</sub> by Molecular Dynamics Simulation	Yuta Takahashi	Nagoya Institute of Technology
A-1	A1-P102-10	Asymmetric Cusp-Induced Enhancement of Thermoelectric Efficiency in Spin-1 Chiral Fermion Systems	Risako Kikuchi	Nagoya University
A-2	A2-P203-04	Significant Suppression In Thermal Transport Of $\beta$ -Ga <sub>2</sub> O <sub>3</sub> Induced By Inhomogeneous Strain	Guangwu Zhang	Hong Kong University of Science and Technology
A-4	A4-P403-02	Emergence of Superconductivity at 20 K in Th <sub>3</sub> P <sub>4</sub> -type In <sub>3-x</sub> S <sub>4</sub> Synthesized by Diamond Anvil Cell with Boron-doped Diamond Electrodes	Ryo Matsumoto	National Institute for Materials Science
A-5	A5-P103-01	Synthesis of Na-doped Hydrogen Boride Nanosheets Using Titrimetric Neutralization Reaction	Shohei Shimozato	University of Tsukuba
B-1	B1-P203-08	Systematic Calculations of Self-Consistent Harmonic Approximation using Polynomial Machine Learning Potentials in Elemental Metals	Takuya Naruse	Kyushu University
B-1	B1-P203-21	Exploration of Novel Ferroelectric Materials Based on High-Throughput First-Principles Calculations	Kazuki Shitara	Japan Fine Ceramics Center
B-2	B2-P103-02	Bridging the Pressure Gap in Hydrogenation of CO <sub>2</sub> to Formate on Cu(100) by Machine-learning Molecular Dynamics Simulations	Harry H. Halim	Department of Precision Engineering, Graduate School of Engineering, The University of Osaka
B-3	B3-P202-04	Development of Crystal Structure Prediction System Using XRD Pattern Descriptors	Karin Ohnishi	Shinshu University
C-1	C1-P102-14	Effect of Thermal Diffusivity on the Time to Melt of Metal Powder inside of Melt Pool in an In-situ Alloying Process by Laser Irradiation	Takanori Kawabe	Kyushu University
C-1	C1-P102-04	Formation Mechanism of Cellular Structure in Nickel-based Superalloys Fabricated by Additive Manufacturing	Kippei Yamashita	The University of Osaka
D-1	D1-P302-26	Ammonia Synthesis over a Chemically Stable Oxyhydride Catalyst: Ru/BaCe <sub>2</sub> O <sub>4-x</sub> H <sub>y</sub>	Kaito Niita	Institute of Science Tokyo
D-2	D2-P403-27	Development of long-lived and high-temperature tolerant lithium-ion batteries with cobalt-free pure nickel layered oxides	Hinata Fujimura	Yokohama National University
D-2	D2-P403-40	Study on Degradation Mechanism of P2-Na <sub>2/3</sub> Ni <sub>1/3</sub> Mn <sub>2/3</sub> O <sub>2</sub> Positive electrode/Electrolyte Interface	Yusuke Isogai	Yokohama National University
D-2	D2-P403-39	Diastereoselective Electrocatalytic Hydrogenation of Cyclic Ketones in a Proton-Exchange Membrane (PEM) Electrolyzer	Yugo Shimizu	Yokohama National University
D-3	D3-P203-12	Liquid Phase Synthesis Conditions of LGPS Solid Electrolytes to Enhance Ionic Conductivity	Ryota Kishi	Toyohashi University of Technology
D-3	D3-P203-09	Analysis of Charge-Discharge Activation at the Interface of Unmodified -LiCoO <sub>2</sub> /Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> -xO <sub>x</sub> Cathode Composite for All-Solid-State Batteries	Yuqi Wang	Institute of Science Tokyo
E-1	E1-P102-11	Evaluation of Fiber Reinforcement Effect and Self-Healing Performance in Composite Metallic Materials Utilizing Melting-Solidification and Capillary Action	Shota Miyake	Waseda University
E-2	E2-P203-13	Elimination of the 3DP-introduced specific microstructural features and isolation of their strengthening effects	Taichi Kikukawa	The University of Osaka
E-2	E2-P203-19	Mechanically robust polymer microparticle monolayer at the air/water interface	Yuma Sasaki	Okayama University
E-2	E2-P203-05	Microstructural Stability and High-Temperature Mechanical Properties of TiAl Alloys Fabricated by Additive Manufacturing	Takahito Karashima	The University of Osaka
E-4	E4-P103-08	Hidden Charge: The Impact of Solvent Traces on Triboelectric Polymers	Liva Germane	Riga Technical University
F-1	F1-P302-10	A correlation-based simulation study of the effect of voltage waveform on radical production in atmospheric pressure streamer discharge	Atsushi Komuro	National Institute of Advanced Industrial Science and Technology (AIST)
F-2	F2-P103-04	Fabrication of Nanostructured Al-doped ZnO Film by Steam Treatment for Non-enzymatic Glucose Sensor	HAEJU JO	The University of Tokyo
F-2	F2-P103-24	Electrochemical Oxidation of Volatile Organic Compounds using Boron-Doped Diamond Electrodes for Air Purification	Yukine Fukaya	Tokyo University of Science
F-2	F2-P103-09	Photocatalytic Cr(VI) reduction with modified g-C <sub>3</sub> N <sub>4</sub> in aqueous solution in the presence of EDTA	Miyu Sato	Mie University
F-3	F3-P203-08	Substitution of KCuTa3O9 with Ba cation Toward Development of New Visible Light Responsive Tantalate Photocatalyst	Mayumi Puspita	Nara Institute of Science and Technology

G-2	G2-P103-14	Development of a vacuum-assisted deposition method for tin perovskite thin films by using imidazole derivatives	Fuyuki Harata	Kyoto University
G-3	G3-P203-13	Characterization of MIM Diodes Fabricated Using ZnO for Rectenna Applications	Haruto Monda	Osaka Institute of Technology
G-4	G4-P102-03	In-situ thermophysical analysis on metal or insulator states of $GdH_x$ thin films controlled by reversible electrochemical hydro-/dehydrogenations	Nanase Takahashi	Aoyama Gakuin University
G-4	G4-P202-27	Optical and structural properties of $TiO_xNy$ thin films deposited by High-Power Impulse Magnetron Sputtering (HiPIMS)	Minseok Kim	Aoyama Gakuin University
G-4	G4-P202-16	Fabrication of Rutile-Type $GeO_2$ Films without Epitaxial Stabilization	Keiji Shibata	Chubu University
G-5	G5-P203-12	Controlled Growth of $\mu m$ -sized Grains in $VO_2$ Thin Films via Biased Sputtering	Nurul Hanis Azhan	Universiti Teknologi Malaysia
H-1	H1-P301-01	Mechanochemical Synthesis of Organic-Inorganic Hybrid Ferroelectric TCM-GaCl <sub>4</sub> and Evaluation of Electric Properties	Keigo Honda	Institute of Science Tokyo
H-2	H2-P103-06	Recent Progresses in Mn-Site Mixing Controlled Magnetism and Nontrivial Transport Properties in Magnetic Topological Materials $Mn(Sb/Bi)_{2n}Te_{3n+1}$	Xinmeng Hu	Southern University of Science and Technology
H-3	H3-P102-09	Temperature dependence of the hydro-/dehydrogenation reaction kinetics on Sm, SmH <sub>2</sub> and SmH <sub>3</sub> films.	Kaiwen Zhu	Aoyama Gakuin University
H-3	H3-P103-19	Fabrication of Biphasic Calcium Phosphate Scaffolds via a Simple Process and its Effects on Osteoclast Activity	Kitaru Suzuki	Tokyo University of Science
H-3	H3-P102-13	Enhancement of Tunnel Magnetoresistance Effect in Co-Gd <sub>2</sub> O <sub>3</sub> Nanogranular Thin Films by Anisotropic Incident Sputtering	Kouki Yamazaki	Tohoku University
H-4	H4-P302-03	Plasma Universal Synthesis of Single-Atom Catalyst for Enhanced Multicatalytic and Nanoenzymatic Activities	Tammy Laysandra	National Taiwan University of Science and Technology
I-1	I1-P301-02	Fabrication of Interfacial Adhesive Mesoporous Silica Discs for Controlled Release of Fragrances	Noriko Yokemura	Tokai University
I-2	I2_H5-P403-18	Investigation on Fracture of Tough Ion Gels with Strain Induced Crystallization by Using In-situ X-ray Scattering	Hao Kou	The Institute for Solid State Physics, The University of Tokyo
I-3	I3-P301-13	Thermal Characterization of Iron(III) and Silicon Co-Substituted Hydroxyapatite Particles with Different Substitution Levels	Sihao Lei	Institute of Science Tokyo
I-4	I4-P403-07	Advancing Organ Preservation: Redox Nanoparticles Suppress Ischemia-Induced Oxidative Stress	Sho Sakaue	University of Tsukuba