International Symposium CRCGP-MSSP2024

The 8th Symposium for the Core Research Clusters for Materials Science and Spintronics and the 7th Symposium on International Joint Graduate Programs in Materials Science and Spintronics





Information for Poster Presenters



Poster Number (PDF)







Lunch Map

CRCGP-MSSP2024 Nov. 18, Mon.

Plenary Talks PL-Nov18 Theory of chiral phonons and their conversions to spin polarizations Murakami Shuichi(Institute of Science Tokyo) NanoSpin4F Conference Room Frontiers in Bio-Inspired and Functional Soft Materials: From Programmable Systems to Advanced Sensing Towards the Construction of Next-Generation Molecular Robots with Quick Sailing and Information CRC-MS-1-1 Nomura M. Shin-ichiro(Tohoku University) AIMR2F Seminar Room Processing CRC-MS-1-2 Plasmonics and Near-fields Regulations for Novel Biochemical and Biomolecules Sensing Applications Guangyu Qiu(Shanghai Jiao Tong University) AIMR2F Seminar Room Magnetic Alignment and Anisotropic Photoluminescence of Semiconductor Nanoplatelets in Liquid CRC-MS-1-3 Dahin Kim(University of Seoul) AIMR2F Seminar Room Crystals Revolutionizing Energy Storage: Novel Designs in Material Development and Applications CRC-MS-2(1)-1 Revealing Thermal Runaway Mechanism of Lithium ion Batteries and its Addressing Strategy Guanglei Cui(Qingdao Institute of Bioenergy ar AIMR2F Seminar Room CRC-MS-2(1)-2 Correlative Characterization Based on Nuclear Magnetic Resonance and Phase-Sensitive X-ray Imaging Badilita Vlad(Karlsruhe Institute of Technology AIMR2F Seminar Room CRC-MS-2(1)-3 Development in Composite Solid Electrolytes for All-solid-state Lithium Batteries Yongcheng Jin(School of Materials Science and AIMR2F Seminar Room CRC-MS-2(2)-1 Design Strategies of Solid-State Ion Conductors for Energy Storage Applications Ohno Saneyuki(Tohoku University) AIMR2F Seminar Room CRC-MS-2(2)-2 Enhancing the Air and Interface Stability of Sulfide Electrolyte Duan Huanan (Shanghai Jiao Tong University) AIMR2F Seminar Room Eco-Friendly, Scalable Approaches to Energy Materials: Advanced Techniques for Storage and CRC-MS-2(2)-3 Thitaree Pimklang(Department of Chemistry ar AIMR2F Seminar Room Conversion Emerging Applications of Nanoscale Oxides in Energy Harvesting and Storage: Paving the Way for Self-CRC-MS-2(2)-4 Mircea Modreanu(Tvndall National Institute-Ur AIMR2F Seminar Room Sustaining IoT Devices Topological / 2D Materials CSIS-1-1 Hopfions in Magnetic Solids - Theory, Stability, Materials Stefan Bluegel(1Peter Grünberg Institut and In: NanoSpin4F Conference Room Exploring Nanoscale Magnetic Skyrmion Lattices in Centrosymmetric Rare-Earth Intermetallic CSIS-1-2 Takagi Rina(The University of Tokyo) NanoSpin4F Conference Room Compounds CSIS-1-3 **Electrical Signatures of Chiral Spin Textures** Anjan Soumyanarayanan (Department of Physic NanoSpin4F Conference Room

CSIS-1-4 Synthetic antiferromagnetic skyrmionics with superior tunability

Sir Martin Wood Prize Session

CSIS-2-0	Introduction to the Prize		NanoSpin4F Conference Room
CSIS-2-1	Software development for computer simulation of phonons and electrons	Atsushi Togo(CBRM, NIMS)	NanoSpin4F Conference Room

Takaaki Dohi(Laboratory for Nanoelectronics a NanoSpin4F Conference Room

CSIS-2-2	First-Principles Studies on Correlated Materials: Applications to Nickelate Superconductors and Noncollinear Magnets	Yusuke Nomura(Institute for Materials Researc NanoSpin4F Conference Room
Machine Learn	ing for New Magnetic Materials	
CSIS-3-2	First-principles study of multiferroic heterostructures based on Heusler compounds	Yoshihiro Gohda(Institute of Science Tokyo),R&NanoSpin4F Conference Room
CSIS-3-3	Spinel-Oxide Tunnel Barrier Designed Using Quantum Annealing and First-Principles Calculations	Kenji Nawa(Mie University/National Institute fcNanoSpin4F Conference Room
Magnetic Doma	ains and Dynamic Properties of Nano Magnetic Particles	
GP-MS-1-1	Structure and high frequency magnetic properties of submicron-sized Fe-Ni-B particles with magnetic vortex structure synthesized by aqueous solution reduction method	Kazushi Wakabayashi(Graduate School of Engi AIMR5F Combination Room
GP-MS-1-2	Dynamic Properties of 3D Vortex Structures in Magnetic Nanoelements	Sang-Koog Kim(Department of Materials Scien AIMR5F Combination Room
GP-MS-1-3	Magnetism of Dipolar-Dominated Nanoparticle Superstructures	Marco Beleggia(Department of Physics, Univer AIMR5F Combination Room
Next-Generatio	on Battery Materials	
GP-MS-2-1	Battery simulations with ab initio molecular dynamics	Manuel Smeu(Binghamton University) AIMR5F Combination Room
GP-MS-2-2	Exploring Battery Materials for Rechargeable Calcium Batteries	Zhirong Zhao-Karger(Helmholtz Institute UIm (AIMR5F Combination Room
GP-MS-2-3	Towards practical Calcium-Sulfur Batteries	Sibylle Riedel (Helmholtz Institute Ulm), Sebaha AIMR5F Combination Room
GP-MS-2-4	Ultrasmall α -MnO2: A Key to Boosting Multivalent Battery Performance	Reona limura(Tohoku University),Hiroaki KobayAIMR5F Combination Room
GP-MS-SJTU S	ession	
GP-MS-SJTU-1	Macro-scale Compositional Inhomogeneity in Friction Stir Processed Mg-Al-Zn Cast Alloy and Its Effect on Mechanical Property	Qingsong Zhang(School of Materials Science arAIMR5F Combination Room
GP-MS-SJTU-2	Coke-Resistant Hollow NiCo/Al2O3 Fiber Catalyst For Dry Reforming Of Methane	Kun Wang(School of Materials Science and En{AIMR5F Combination Room
GP-MS-SJTU-3	A Novel One-Step Electrodeposition Technic for Skin Effect Suppression Multilayer Coatings	Wei Shen(School of Materials Science and Eng AIMR5F Combination Room
GP-MS-SJTU-4	Ordered Carbonaceous Frameworks Synthesized from Hexaazatrinaphthylene via Solid-State Bergman Cyclization	Yuki Sano(Department of Chemistry, Graduate AIMR5F Combination Room

GP-MS-SJTU-5 Uniaxial strain effects on the electronic structure of 1T-TaS2: micro-ARPES study

Shuto Suzuki(Department of Physics, Tohoku LAIMR5F Combination Room

CRCGP-MSSP2024 Nov. 19, Tue.

Plenary Talks

PL-Nov19-1	An Introduction and Superior High-Temperature Strength in a Refractory High-Entropy Alloy	Liaw Peter(The University of Tennessee)
PL-Nov19-2	Nanocatalysts for a low carbon society: upgrading chemicals through hydrogenation	Yamauchi Miho(Kyushu University)

Magnons in Spintronics

MoSiBTiC Alloy

CRC-MS-3-1	Magnon currents in antiferromagnetic heterostructures	Dongsheng Yang(National University of Singar AIMR2F Seminar Room		
CRC-MS-3-2	Magnetic Persistent Coherence and magnon correlations observed by magnon state tomography	Hioki Tomosato(The University of Tokyo)	AIMR2F Seminar Room	
CRC-MS-3-3	Dynamical stabilisation by spin transfer in a nearly isotropic magnet	Kei Yamamoto(Advanced Science Research	Ce AIMR2F Seminar Room	
CRC-Spin Awa	rd Talk			
	Development of spintronics materials based on ferromagnetic nitrides	Keita Ito (Tohoku University)	AIMR2F Seminar Room	
Structural Mat	erials-1			
CD MS 2(1) 1	EFFECT OF GRAIN BOUNDARY SERRATION TREATMENT ON HOT DEFORMATION AND CREEP	Tao Wai Chan(National Taing Hua University) [AIMPEE Combination Poom		
GP-INS-3(1)-1	BEHAVIOUR OF UDIMET-720LI SUPERALLOY	TSO-Wei Chen(National Tsing Hua Oniversity), rAiMRSF Combination Room		
GP-MS-3(1)-2	Toughening Mechanism in Cu-Graphene Nanolayered Composite	Seung Min Han(Korea Advanced Institute of ScAIMR5F Combination Room		
CD MC 2(1) 2	Statistical Analysis of Microstructural Features Using Scanning Electron Microscope Images of	Chihana Kuda (Craduata Sabaal of Engineeri	ng AIMDEE Combination Boom	
GF-1VIS-3(1)-3		Unimaria Kuuo(Graduate School of Engineeri	ng, Anviror Combination Room	

AIMR2F Seminar Room

AIMR2F Seminar Room

CRCGP-MSSP2024 Nov. 20, Wed.

Plenary Talks

PL-Nov20 Nanoparticle Platforms for Therapeutic Applications

Frontiers in Material Strength and Structural Integrity

CRC-MS-4-1	In Situ SEM Experimental Studies on the Mechanical Properties of Two-Dimensional Materials
	Development of Lagrange Multiplier/Cohesive Zone (LM/CZ) methods for crack simulations in
GRC-1013-4-2	laminated structures
	Mechanical characterization of polydimethylsiloxane/multi-walled carbon nanotube (PDMS/MWCNT)
CRC-IVIS-4-5	sensor under cyclic loading

CRC-MS Award Talk

Development and Application Possibilities of Novel Shape Memory Alloys
Development of a ultra-high temperature, high-sensitivity thermal analysis method

Sustainable Metallurgy

GP-MS-4-1	Electrolysis to Produce Light Metals from Molten Salts Electrolytes
GP-MS-4-2	Upcycling of reactive metals through molten salt electrolysis
GP-MS-4-3	Sustainable ironmaking with hydrogen and ammonia
GP-MS-4-4	Synthesis of Ti-V powder by using shuttle reaction of titanium ions in molten NaCl-KC

Topology

- GP-Spin-1-1 Novel Magnetic Topological Materials and Topological Quantum Transport
- GP-Spin-1-2 Nonlinear Hall transport in a quantum Hall system
- GP-Spin-1-3 Exploring piezomagnetic coupling in quantum materials

Spin Dynamics & Terahertz

GP-Spin-2-1 Microscopic theory for spin pumping and related phenomena
 GP-Spin-2-2 Terahertz photovoltaic effect of spin excitations in multiferroics
 GP-Spin-2-3 Imaging and control of antiferromagnetic domains via the magnetoelectric effect

Best Poster Award

Closing

Yan Yabin(East China University of Science an AIMR2F Seminar Room Shunhua Chen(School of Ocean Engineering ar AIMR2F Seminar Room Nak-Kyun Cho(Seoul National University of Sci AIMR2F Seminar Room

Xiao Xu(Tohoku University)AIMR2FTakeharu Yoshii(Tohoku University)AIMR2F

Caruso Frank(The University of Melbourne)

AIMR2F Seminar Room AIMR2F Seminar Room

AIMR2F Seminar Room

Geir Martin Haarberg(Norwegian University of \$AIMR5F Combination Room Xin Lu(School of Metallurgical and Ecological EAIMR5F Combination Room Yan Ma(Delft University of Technology/Max Pl;AIMR5F Combination Room TERIGELE TERIGELE(Department of Metallurg;AIMR5F Combination Room

Mao Zhiqiang(The Pennsylvania State Universi NanoSpin4F Conference RoomHiroki Isobe(Kyushu University)NanoSpin4F Conference RoomYe Linda(California Institute of Technology)NanoSpin4F Conference Room

Takeo Kato(Institute for Solid State Physics, Tr NanoSpin4F Conference Room Takahashi Youtarou(The University of Tokyo) NanoSpin4F Conference Room Sándor Bordács(Budapest University of Technc NanoSpin4F Conference Room

> AIMR2F Seminar Room AIMR2F Seminar Room

CRCGP-MSSP2024 Nov. 21, Thu.

Structural Materials-2

GP-MS-3(2)-1 Deformation Behavior of Mo-Si-B Alloys

Sharvan Kumar(School of Engineering, Brown LAIMR5F Combination Room

Energy Storage and Conversion

GP-MS-5-1	2D quantum sheets as electrode materials for supercapacitors: tiny building blocks help facilitate mass	liaiun Cu/School of Materials Science and Engi AIMPSE Combination Room
	transport in a limited space	
GP-MS-5-2	Energy Storage Techniques in Laboratory of Electrochemistry & Advanced Materials at National Tsing	Chi-Chang Hu(National Tsing Hua University) AIMR5E Combination Room
	Hua University in Taiwan	
GP-MS-5-3	Utilizing Cladding Processes to Enhance Structural Stability of Aluminum-Foil Anodes for Rechargeable	Waigi Liu/Institute for Materials Research, Teh AIMPEE Combination Ream
	Lithium Batteries	

PM-01	Quantitatively evaluating the contribution of intergranular carbides, Cr-depleted zone, and grain boundary to inte	Pan	Liu
PM-02	Rule of common anion on interfacial charge transfer in oxide heterostructures studied by in-situ photoemission s	Ryotaro	Hayas
PM-03	Nanoporous MoS2 Anode via Liquid Metal Dealloying for Lithium-Ion Batteries	Jiayan	Liu
PM-04	A Novel One-Step Electrodeposition Technic for Skin Effect Suppression Multilayer Coatings	Wei	Shen
PM-05	Planar Hall effect and X-ray Magnetic Linear Dichroism by Yafet-Kittel Structure in NiCo2O4 thin films	Hiroki	Koizur
PM-06	XXZ spin Hamiltonian and generalized Katsura-Nagaosa-Balatsky theory in orbital-ordered p-orbital magnet: alk	Ryota	Ono
PM-07	High-resolution ARPES study of Weyl semimetal PtBi2	Yusei	Morita
PM-08	Amorphization of Si from a melt by liquid quenching of Al-Si eutectic alloy	Rui	Yamad
PM-09	Elucidation of a novel lignin-phenolic resin chemical structures by Two Dimensional -Nuclear Magnetic Resonan	Chen	00
PM-10	Spray-Grown Crystalline Cobalt-Phthalocyanine on Carbon Paper as an Efficient Gas Diffusion Electrode for CO-	Tengvi	iu .
PM-11	Immiscible Fe-Mg ioining by eutectic-melt-induced liquid metal dealloying	Kota	Kurah
PM-12	Ordered Carbonaceous Frameworks Synthesized from Heyaazatrinanhthylene via Solid-State Bergman Cyclizatic	Yuki	Sano
PM-13	Resonance method and strain gauge method in evaluation of magnetostriction for Ee-Ga melt-soun ribbons	Likun	Chen
DM 14	Suphasis of Ar2POA and Its Hotorojunction Structure with WV. (Y=S So)	Dini	Lorocc
PM-15	Pernendicular magnetic enisctropy in metestable boc CoMnEe alloy thin films	Mio	Laiasa
DM 16	Perpendicular magnetic amoutopy in metastable bic colvin e anoy tinn mins	Vacubiro	Kotow
DM 17		Kostik	Cou
PIVI-17	Auvanced Functionality of Complex Hydrides	Nartik	Ohaah
PIVI-18	Bicontinuous microstructure formation of immiscible phases by the liquid metal replacement method and its app	rusuke	Unash
PIVI-19	I nin film growth and properties of novel rare-earth monoxide I mo	Hidetatsu	rosnir
PM-21	Synthesis of PDMS-PEG Amphiphilic Alternating Multiblock Copolymers by Active Ester	Yuki	Irie
PM-22	Cr-Induced Variations in Electrical and Magnetic Properties of MnTe Polymorphic Thin Films	Mihyeon	Kim
PM-23	A time-domain nuclear magnetic resonance (TD-NMR) as a tool to characterize surface of variable particles	Chika	Takai-
PM-24	Hollow silica nanoparticles: A tiny pore with big dreams	Chika	Takai-
PM-25	Towards Efficient Hydrogen Liquefaction: Cryogenic Elastocaloric Effect in Superelastic Alloys	Sheng	Xu
PM-26	Grain Boundary Structure and Magnetic Elements Doping Enhancing Electromagnetic Wave Absorption Performa	Huan	Lin
PM-27	Control of charge density wave by carrier tuning in monolayer TiSe2	Koki	Yanag
PM-28	DigCat: A Digital Catalysis Platform for Al-Driven Catalyst Design	Di	Zhang
PM-29	Age-hardening Mechanism in Laser-Powder Bed Fusion Additively Manufactured Cu-4Cr-2Nb alloy	Wakana	Honda
PM-30	Laser Additive Manufacturing of High Specific Strength Steel Containing a High Carbon	Nobuaki	Takeu
PM-31	Uniaxial strain effects on the electronic structure of 1T-TaS2: micro-ARPES study	Shuto	Suzuki
PM-32	Investigation of the Phase Change Behaviors in V-Te Thin Film	Shuhei	Orihar
PM-33	The evolution of grain orientation during primary and secondary recrystallization in FeMnAINi superelastic alloy	Kerui	Song
PM-34	Phase-change Chromium Nitride for Next-generation Nonvolatile Memory	Yi	Shuan
PM-35	Experimental investigation and thermodynamic evaluation of the Co-Cr binary system	Kazushige	loroi
PM-36	Heat-resistant aluminum alloy design using explainable machine learning	Jinxian	Huang
PM-37	Finite element analysis for the effect of microstructure on microcrack initiation and interfacial debonding of MoS	Junfeng	Du
PM-38	Microstructure and Mechanical Property Analyses of Mo-Nb-Ti-C Alloys using Machine Learning	Xinvu	Yan
PM-39	Cellulose Nanofiber Extraction and Free-standing Film Preparation by APS Oxidation	Rvohei	Kusun
PM-40	Electrical properties of VN and V doped CrN thin films and their potential as phase-change materials	Wei-Chiao	CHAN
PM-41	Extraction of Cellulose Nanocrystals from Soybean Okarahy APS Oxidation	Nagashima	Teruto
PM_42	Investigation of the relationship between souther condition and physical properties of MnTe2		
DM /2	Coke Resistant Hollow NiCo/Al2O2 Eiber Catalyst Eer Dry Referming Of Mathana	Kun	Wong
DM 44	A "Data Mining Theory Experiment" Framework to Effectively Identify Cost Effective Catalysts	VUO	lio
	A Data wining-Theory-Experiment Tranework to Enectively identity Cost-Enective Catalysis	Soundmin	Jia Doo
PIVI-40	Universal polaron formations in chemically-doped Mos2 revealed from first principles	Soungmin	Бае
PIVI-40	High-pressure synthesis of carrier-doped RuBrs with honeycomb structure	Erin	Lee
PIM-47	Piezomagnetic effect in 5d transition metal oxides with pyrochlore structure	HIROKI	Nanjo
PM-48	First-Principles Study on Hydrogen Behaviors in Si Grain Boundaries	Ibuki	Miyam
PM-49	Observation of a large piezomagnetic effect in olivine-type oxide Co2SiO4	lakeru	lanıgı
PM-50	CatMath: an online predictive platform for thermal + electrocatalysis	Heng	Liu
PM-51	Prediction of Dielectric Tensors using an Equivariant Graph Neural Network	Atsushi	Takiga
PM-52	Structure-Activity Relationship Towards Electroreduction by A Standard Research Paradigm	Tianyi	Wang
PM-53	The effect of impurities on the atomic structure of MgO grain boundaries in tunneling magnetoresistive devices	Qian	Chen
PM-54	Design of Reshapable Siloxane Networks Using Boronic Esters	Hinata	Tsuno
PM-55	Computational Study of the Phase Diagram of Metal Hydrides at High Pressure for Hydrogen Storage Application	Hung Ba	Tran
PM-56	Modeling and structure prediction of incoherent interfaces	Kazutoshi	Inoue
PM-57	Macro-scale Compositional Inhomogeneity in Friction Stir Processed Mg-Al-Zn Cast Alloy and Its Effect on Mech	Qingsong	Zhang
PM-58	Expansion of carbon material analysis using temperature-programmed desorption up to 2100 $^\circ$ C	Ryo	Kawag
PM-59	Antiferromagnetic domain switching observed by anisotropic magnetoresistance in altermagnet MnTe	Itsuki	Hamal
PM-60	Prediction of Oxygen Vacancy Formation Energies with Crystal Graph Neural Networks	Chisa	Shibui
PM-61	Molecular Dynamics Simulation of Off-stoichiometric (Ti,Mo)Cx by Machine Learning Potential	Hiromu	Matsu
PM-62	Luminescence Properties of Photofunctional Polymer Nanosheets with Terbium Complexes	Ruka	Sakura

NICHe, Tohoku University, Sendai 9808579, Japa IMRAM, Tohoku University Hayasaka Graduate School of Engineering, Tohoku Univers Shanghai Jiao Tong University Koizumi CSIS, Tohoku University National Institute for Materials Science, MANA Graduate School of Science, Tohoku University Morita Instititue for Materials Research, Tohoku Univer Yamada WPI-AIMR, Tohoku University WPI-AIMR, Tohoku University Kurabayashi Graduate School of Engineering, Tohoku Univers Graduate School of Science, Tohoku University Institute for Materials Research, Tohoku Univers IMRAM, Tohoku University arasati WPI-AIMR Tohoku University shihashi Katayama Graduate School of Science, Tohoku University WPI-AIMR, Tohoku University Dhashi Institute for Materials Research, Tohoku Univers Yoshimura Graduate School of Science, Tohoku University, Graduate School of Engineering Tohoku Univers Graduate Sch. of Engineering, Tohoku University 「akai-Yamash Tohoku University/Gifu University Takai-Yamash Tohoku University/Gifu University Department of Materials Science, Tohoku Unive IMR, Tohoku University/Univ of Sci and Tech Be Yanagizawa Graduate School of Science, Tohoku University WPI-AIMR, Tohoku University Zhang Honda Tohoku University Engineering Takeuchi Graduate School of Engineering, Tohoku Univers Suzuki Department of Physics, Tohoku University Orihara Graduate School of Engineering, Tohoku University Graduate School of Engineering, Tohoku Univ. Tohoku University Shuang Graduate School of Engineering, Tohoku Univers Huang AIMR, Tohoku University Graduate School of Engineering, Tohoku Univers Graduate School of Engineering, Tohoku Univer Graduate School of Engineering, Tohoku Univers Kusumi CHANG Graduate School of Engineering, Tohoku Univer Graduate School of Engineering, Tohoku Univers Feruto Tohoku University Shanghai Jiao Tong University WPI-AIMR, Tohoku University, Sendai 980-8577, Institute for Materials Research, Tohoku Univers Dept. of Phys., Grad. Sch. of Sci., Tohoku Univ. Department of Physics, Tohoku University Viyamoto Institute for Materials Research, Tohoku Univers Graduate School of Science, Tohoku University Taniguchi WPI-AIMR, Tohoku University Takigawa Institute for Materials Research WPI-AIMR, Tohoku University WPI-AIMR, Tohoku University Tsunoda Graduate School of Engineering, Tohoku University WPI-AIMR, Tohoku University WPI-AIMR, Tohoku University Zhang Shanghai Jiao Tong University IMRAM, Tohoku University Kawaguchi Hamabe Department of Physics, Tohoku Unversity Shibui Institute for Materials Research, Tohoku Univers Matsuura Graduate School of Engineering, Tohoku University Sakuraba Graduate School of Engineering, Tohoku Univers

PS-01	Spin-Locked Surface Spin Waves in van der Waals Layered Magnets	Zhoujian	Sun
PS-02	Composition-dependent electronic states in centrosymmetric skyrmion host Eu(Ga,AI)4: high-resolution ARPES	Yuki	Arai
PS-03	Radio-frequency reflectometry of bilayer graphene quantum devices using RFSoC platform	Motoya	Shinozaki
PS-04	Tunnel magnetoresistance effect in L10-MnGa/MgO/CoFeB perpendicular magnetic tunnel junctions with meta	Deepak	Kumar
PS-05	Development of an ab initio method for non-coplanar chiral magnets and response properties	Hsiao-Yi	Chen
PS-06	Magnetic properties in RuO2/Co-Fe-B stack film	Thi Van An	Nguyen
PS-07	Probabilistic Computing with Various Random Telegraph Noises of Stochastic Magnetic Tunnel Junctions	Haruna	Kaneko
PS-08	Direct Generation and Measurement of Spin Helices Using a Spatial Light Modulator in a GaAs/AlGaAs Two-Din	Keito	Kikuchi
PS-09	Nonreciprocal Electronic Transport Induced by Current-induced Deformation of Helimagnetic Structure in YMn6	Hidetoshi	Masuda
PS-10	Small Area and High speed Error Correction circuit of STT-MRAM for Artificial Intelligence Systems	Li	Zhang
PS-11	Chiral Diffusion of a Magnetic Skyrmion with Defects in Magnetic Thin Films	Soma	Miki
PS-12	Understanding of Electronic Structure and Perpendicular Magnetic Anisotropy of bcc CoMnFe Alloys: An ab initia	Tufan	Roy
PS-13	Anomalous Nernst effect in Fe4N films substituted by heavy metals	Keita	Ito
PS-14	Effect of Modulated Spin Diffusion Constant on Spin Dynamics under Persistent Spin Helix Regime in a GaAs/Al	Koga	Akagi
PS-15	Chaotic behaviors of spin-torque ferromagnetic resonance in the presence of tunable anharmonic potential	Ryo	Tatsumi
PS-16	First-principles study of multiferroic heterostructures based on Heusler compounds	Yoshihiro	Gohda
PS-17	Light-helicity-induced torque for Co-Pd alloy thin films	Koki	Nukui
PS-18	Fabrication of SrTiO3-based capacitor for cryogenic variable microwave resonators	Akitomi	Shirachi
PS-19	Ferromagnetic nanowindows for the optically accessible spin center array	Koki	Takano
PS-20	Observation of Anisotropic Exchange Splitting in Altermagnet MnTe: Micro-ARPES	Takumi	Osumi
PS-21	Analysis of Kondo State in Quantum Dots Fabricated in ZnO Heterostructures	Kosuke	Noro
PS-22	Effective circuit model of gain-driven magnon-polariton beyond strong coupling	Ryunosuke	Suzuki
PS-23	Spin Dynamics and Polarized Neutron Reflectometry of Compositionally-Graded Ru Doped Perovskite Manganes	Kenichi	Kaminaga
PS-24	Optimization of flux structure of orthogonal magnetized MTJs for detecting neural magnetic field sensing	Hiroshi	Naganuma
PS-25	Discovery of Moire Magnetism	Guanghui	Cheng
PS-26	Novel Surface States of Antiferromagnet NdSb Triggered by PT-Symmetry Breaking: Micro-ARPES	Asuka	Honma
PS-27	Stack Structure Dependence of Higher Order Non-Linear Hall Effects in the Presence of Multidomain Structure	Takeshi	Tasaki
PS-28	Rectification of rf signal in magnetic tunnel junctions for energy harvesting	Kazunari	Kino
PS-29	Topological Electronic Structure of Rare-Earth Tetraborides RB4(R = Gd, Tb) Studied by Micro-focused ARPES	Yuki	Kondo
PS-30	Deposition temperature dependence of structural and magneto-transport properties of poly-crystalline Mn3Sn th	rHaruki	lwai
PS-31	Size dependence of photocurrents in magnetic metamaterials with threefold rotational symmetry	Gabriele	Cavanna
PS-32	Stochastic Magnetic Tunnel Junctions with Different Synthetic Antiferromagnetic Compensations in Free Layer	Takuma	Kinoshita
PS-33	Magnetic Field Imaging of Co/Pt Multilayer on Diamond Substrate Using NV Quantum Sensor	Tatsuki	MIsawa
PS-34	Nanoscale measurement of catalytic activity in magnetic van der Waals materials	Jana	Lustikova
PS-35	Optical second harmonic imaging of multipolar domains in a ferroaxial antiferromagnet MnTiO3	Daiki	Sekine
PS-36	Characterization of CVD graphene on r-plane sapphire for device applications	Kairi	Kaneta
PS-37	Physical Reservoir Computing with Spin Hall Nano-Oscillators: Harnessing Transient Dynamics for Neuromorphi	Aakanksha	Sud
PS-38	Optical control of spin currents by artificial magnetic toroidal dipole	Hidehisa	Taketani
PS-39	High-resolution ARPES study of Rashba electronic structures in monoatomic Bi and Sb ultrathin films on SiC	Ken	Yaegashi
PS-40	Temperature and size dependence of energy barrier for magnetic flip in L10 FePt nanoparticles toward magnetic	Hung Ba	Tran
PS-41	Probing the Energy Gap in Monolayer Graphene on Sapphire Substrate through Resistively-Detected Electron Sp	Yuma	Hiraga
PS-42	Study on Temperature Dependence of Electrical 1/f Noise for Magnetic Tunnel Junctions	Yupeng	Wang

WPI-AIMR, Tohoku University/Hunan University Dept. Phys., Tohoku Univ. WPI AIMR, Tohoku University WPI AIMR, Tohoku University IMR, Tohoku University CSIS, Tohoku University RIEC, Tohoku University Department of Materials Science, Tohoku University Institute for Materials Research, Tohoku University Graduate School of Engineering, Tohoku University Osaka University CSIS, Tohoku Univ Institute for Materials Research, Tohoku University Graduate School of Engineering, Tohoku University Tohoku Univ. Institute of Science Tokyo Dept of Appl. Phys. Tohoku Univ./AIMR, Tohoku Univ. RIEC, Tohoku University RIEC, Tohoku University Depertment of Physics, Tohoku University RIEC, Tohoku University Tohoku University Tohoku Univ. aga Tohoku University/Nagoya University uma WPI-AIMR, Tohoku University Department of Physics, Tohoku University RIEC, Tohoku University RIEC, Tohoku University Department of Physics, Tohoku University RIEC, Tohoku University Dept. of Physics, Tohoku University Tohoku University Department of Applied Physics, Tohoku University CSIS, Tohoku University Department of Physics, Tohoku University Dept. of Phys. Tohoku Univ FRIS, Tohoku Univ./RIEC, Tohoku Univ. Department of Physics, Tohoku University Department of Physics, Tohoku University WPI-AIMR, Tohoku University Graduate School of Sciences, Tohoku University CSIS, Tohoku University

