

2023년 한국자기학회 하계학술대회 포스터 발표번호

발표번호	발표분야	제목	발표자명
EM01	Electro-Magnetic Energy Conversion	Evaluation of Magnetic Geared Machine Characteristics for Low-Speed High-Torque Generators Using Analytical Method	응우옌 만등(충남대)
EM02	Electro-Magnetic Energy Conversion	고정자 치 형상을 고려한 철손 시험 방법에 대한 특성 분석	강재범(University of Science & Technology)
EM03	Electro-Magnetic Energy Conversion	Characteristic Analysis and Comparative Study according to Rotor Structure of Permanent Magnet Synchronous Machine for Electric Propulsion Ship	이주형(전남대)
EM04	Electro-Magnetic Energy Conversion	Comparative Study and Electromagnetic Design for High Performance in Axial Flux Permanent Magnet Machine for Electric Propulsion Ship	김성원(전남대)
EM05	Electro-Magnetic Energy Conversion	Design process for reducing irreversible demagnetization of Dy-free magnets in motors for hybrid traction	송시우(가천대)
EM06	Electro-Magnetic Energy Conversion	A Novel Sleeve Design by Reducing Eddy Current Loss of High-speed Electrical Machines	이승현(가천대)
EM07	Electro-Magnetic Energy Conversion	Design for Torque Ripple and Eddy Current Loss Reduction in 3kW Dry Vacuum Pump Motor for ETCH Process using Separated Rotating Tapering	최도현(가천대)
EM08	Electro-Magnetic Energy Conversion	전자기적 및 기계적 해석을 고려한 마그네틱 기어설계	정우성(충남대)
EM09	Electro-Magnetic Energy Conversion	Linear Oscillating Actuator의 분할구조를 고려한 철손 해석 방법	이지현(한양대)
EM10	Electro-Magnetic Energy Conversion	IPMSM의 영구자석 불가역 감자 해석 방법	원윤재(한양대)
EM11	Electro-Magnetic Energy Conversion	A Study on the Reduction of Rotor Loss by Slot Opening of SPMSM	남동우(가천대)
EM12	Electro-Magnetic Energy Conversion	A Study on Reduction of Magnet Usage and Cogging Torque through the Intersect Consequent Model	김효구(가천대)
EM13	Electro-Magnetic Energy Conversion	A Study on the Design of Axial Flux Permanent Motor for 160W Collaborative robot	허준(가천대)
EM14	Electro-Magnetic Energy Conversion	고전압으로 충전된 대용량 커패시터를 이용한 방전전류 생성에 관한 특성 연구	변재호(동아대)
EM15	Electro-Magnetic Energy Conversion	Spin Seebeck effect of the Yttrium Iron Garnet that Fabricated with Varying Sintering Step for Grain Variation	옥혜진(UNIST)
EM16	Electro-Magnetic Energy Conversion	Duplex 3상 매입형 영구자석 동기기의 PWM 전류교조파를 고려한 철손 및 AC 동손 분석	배예나(한양대)
EM17	Electro-Magnetic Energy Conversion	소형 전기자동차 구동용 페라이트 자석 자속 집중형 모터의 조립 후 착자 성능 비교 연구	김원우(동아대)
EM18	Electro-Magnetic Energy Conversion	가격 절감을 위한 마그네틱 기어의 비회로류 자석 사용 검토	배병철(한양대)
MS01	Magnetics in Medical Science	A Study on The Concentration Setting of Auto-contouring for Lung Shape in Coreplan	김정호(선린대)
MS02	Magnetics in Medical Science	Residual Fluoride Amount in Saliva after Rinsing with Fluoride Mouthwash Using Nuclear Magnetic Resonance Spectroscopy	남철희(강원대)
MS03	Magnetics in Medical Science	Design of a Depth Encoding Detector using 2 mm Scintillator Block and Light Guides with Different Reflector Patterns for Each Layer	백철하(강원대)
MS04	Magnetics in Medical Science	Classification Technology of Hand Motion using LSTM network: Preliminary study	정은화(전남대)
MS05	Magnetics in Medical Science	Design of Transcranial Current Stimulation (tCS) with External Trigger for MR-CDI	황승민(전남대)
MS06	Magnetics in Medical Science	Preparation and Characterization of Hyaluronic acid-based Magnetized Microneedles Containing Iron Oxide Nanoparticles	최종구(상지대)
MS07	Magnetics in Medical Science	Evaluation of the shielding performance according to the lead ratio for the standard proposal of radiation shielding facilities	백철하(강원대)
MS08	Magnetics in Medical Science	Remineralization Effect of Tooth Surface Treated with Silver Diamine Fluoride	남철희(강원대)
MS09	Magnetics in Medical Science	Effects of Hand Intrinsic Muscle Treatment after Low Frequency rTMS on Cerebral Motor Evoked Potential and Latency in Patients with Stroke	마성룡(조선대)
MM01	Mössbauer Magnetics	Mössbauer Spectra Investigation of the ORR Electrocatalysts synthesized by Electron beam irradiation	이채원(한국원자력연구원)
MM02	Mössbauer Magnetics	Studies of Baekje black and red pottery using multi-technique method	최현경(한국원자력연구원)
MM03	Mössbauer Magnetics	Synthesis of core-shell structured Fe@Pt/C, Fe@SiO ₂ using e-beam irradiation	엄영랑(한국원자력연구원)
MM04	Mössbauer Magnetics	Characterization of iron oxides-based red pigments in the Ulleung-gun, South Korea	엄영랑(한국원자력연구원)
MM05	Mössbauer Magnetics	Development of A Field-Portable Mössbauer Spectrometer	이재기(한국원자력연구원)
SS01	Spintronics	Flexible GMR thin films depending on the tensile stress in x- and y-axes	김나연(한국생산기술연구원)
SS02	Spintronics	Outstanding Spin-to-Charge Conversion in Selective Band Topology of Bi/Bi _{1-x} Sb _x	노승원(연세대)
SS03	Spintronics	Direct observation of magnetic domain wall using Scanning Electron Microscopy with Polarization Analysis (SEMPA)	이상선(KRISS)

SS04	Spintronics	Nonreciprocal Charge Transport in an AlOx/SrTiO3 Heterostructure	안정웅(KIST)
SS05	Spintronics	Fabrication and optimization of rare earth iron garnet using Metal organic decomposition method	김현규(KAIST)
SS06	Spintronics	Spin Hall magnetoresistance and unidirectional magnetoresistance in ferromagnet metal/antiferromagnet insulator bilayers	최원영(KIST)
SS07	Spintronics	Chirality dependent magnetoresistance through highly distorted 2D chiral hybrid perovskites	황인국(KAIST)
SS08	Spintronics	Controlling Spin-orbit torque Efficiency with Pt-W Alloy Composition	윤지원(KIST)
SS09	Spintronics	Spin-Orbit Torque study in a Pt-Ta alloy with Opposite Spin Hall Angles	이현준(KIST)
SS10	Spintronics	Observation of perpendicular standing spin wave mode of Py film using spin torque ferromagnetic resonance	나영준(KIST)
SS11	Spintronics	Magnetic properties of Ferromagnetic nanoparticles of Fe _x GeTe ₂ (x=3, 5) directly exfoliated and dispersed in pure water	임현중(성균관대)
SS12	Spintronics	Mn _{3-x} Sn _{1+x} 박막에서 조성에 따른 자성특성의 결정학적 연구	이시하(울산대)
SS13	Spintronics	Measurement of anomalous spin Hall angle in single ferromagnetic layer using spin-torque ferromagnetic resonance	한기혁(KIST)
SS14	Spintronics	Comparison of the Field-like Spin-orbit Torque Acquired by Hall and Longitudinal Resistance	윤재성(서울대)
SS15	Spintronics	Study on Temperature Dependence of Exchange Bias at the NiFe/IrMn interface in MTJ for cryogenic MRAM	서성빈(울산대)
SS16	Spintronics	Spin Hall Conductivity of W-Ti alloys in A15 structure	웬 티 구인 안(울산대)
SS17	Spintronics	Engineering large Rashba spin-orbit-coupling 2DEG structure using doping control	김성빈(KIST)
SS18	Spintronics	Large field like spin-orbit-torque in Pd/Co system	장승훈(서울대)
SS19	Spintronics	Angular Dependence of Planar Hall Effect and Anisotropic Magnetoresistance in Ta/NiFe Heterostructure under external magnetic field	강범승(연세대)
SS20	Spintronics	Observation of out-of-damping like torque in van der Waals heterostructure at room temperature	김병권(KIST)
SS21	Spintronics	Change in Interfacial Dzyaloshinskii-Moriya interaction due to Ruthenium spacer	이지영(고려대)
SS22	Spintronics	Micromagnetic study of field-free spin-orbit torque switching in ring structure in perpendicular Magnetic Anisotropy System	김수정(DGIST)
SS23	Spintronics	Orbital Hall magnetoresistance of epitaxially grown Fe/Cr bilayers	minh thanh vu(울산대)
SS24	Spintronics	Controlling oscillation modes by manipulating dimensionality of spin structures	옥혜진(UNIST)
SS25	Spintronics	Pt/Co/W 인공초격자의 벌크 라쉬바 효과	김상훈(울산대)
MD01	Magnetization Dynamics	Exploring a novel two-dimensional ferromagnetic material with high Curie temperature: Single-layer MoI ₂	윤원석(DGIST)
MD02	Magnetization Dynamics	A new method to measure the magnetization compensation temperature beyond the detectable range of instruments	장준영(서울대)
MD03	Magnetization Dynamics	The Magnetic Properties on the MgO/CoFeB/Ta/Co/Pt structures	김다현(DGIST)
MD04	Magnetization Dynamics	Ultrafast all-optical measurement for Gilbert damping of YIG thin film	김지완(군산대)
MD05	Magnetization Dynamics	Athermal and Thermal training effects in Co/IrMn ₃ Bilayer Thin Films with various Co thicknesses	김용섭(서울대)
MD06	Magnetization Dynamics	Linear Chains of Magnetosome Nanocrystals Extracted from Magnetotactic Bacteria and Magnetization Reversals in the Assemblies	박규영(서울대)
MD07	Magnetization Dynamics	Skyrmion bag dynamics based multi-bit logic gates	정수영(UNIST)
MD08	Magnetization Dynamics	Magnetic dead layer in Pt/Co/X structure	심우영(서울대)
MD09	Magnetization Dynamics	Reversal Behavior of Soft Layer in Synthetic Antiferromagnets	강명환(UNIST)
MD10	Magnetization Dynamics	Spin-orbit torque induced magnonic gating	유무진(KAIST)
MD11	Magnetization Dynamics	Domain Wall Motion Profile Tracking with Perpendicular Magnetic Anisotropy system by Canny Algorithm	조재용(DGIST)
MD12	Magnetization Dynamics	Fabrication of Domain Wall Inverter for Dynamic Logic Devices	주우리(DGIST)
MD13	Magnetization Dynamics	Geometry Optimization of Split Ring Resonator for Terahertz Photon-Magnon Coupling	백건우(KAIST)
MD14	Magnetization Dynamics	Probing magnon-phonon non-equilibrium in thulium iron garnets by optical reflectometry	김갑진(KAIST)
MD15	Magnetization Dynamics	Observation of spin-glass-like characteristics in ferrimagnetic TbCo through energy-level-selective approach	김갑진(KAIST)
MD16	Magnetization Dynamics	Chiral Coupling of two orthogonal magnetizations in GdCo ferrimagnet	고산(KAIST)
MD17	Magnetization Dynamics	Generation of Large Spin Current Burst during Magnetic Phase Transition of FeRh	김갑진(KAIST)

MD18	Magnetization Dynamics	Reconfigurable domain wall pinning in synthetic antiferromagnets	김갑진(KAIST)
MD19	Magnetization Dynamics	Anisotropic Magnetoresistance of FeRh across the Magnetic Phase Transition	김갑진(KAIST)
MD20	Magnetization Dynamics	Exploration of the structural topology in magnetic skyrmion creep	유무진(KAIST)
MD21	Magnetization Dynamics	Manipulation of Magnetic Topological Structures Using Highly Localized Magnetic Field	강명환(UNIST)
PM01	Permanent Magnetics	Investigations of Ba Substituted SrM Hexaferrite on Anisotropy Field	성민경(숙명여대)
PM02	Permanent Magnetics	The Effect of the Solidification Microstructure on Magnetic Property of Nd-Fe-B Magnet Manufactured by Laser Powder	김호정(연세대)
PM03	Permanent Magnetics	Effect of Hot Pressure Condition on the Magnetic Performance of (Nd _{0.6} Ce _{0.4})-Fe-B Hot-deformed Magnets	김원진(연세대)
PM04	Permanent Magnetics	Enhancement of magnetic properties of Nd-Fe-B sintered magnets by grain boundary diffusion of LRE-Al-Cu(LRE=Nd, Pr, La, Ce) low melting alloy	장예령(연세대)
PM05	Permanent Magnetics	Magnetic properties and microstructure in Nd-Fe-B sintered magnets with dip-coating, spray-coating method	김재혁(연세대)
PM06	Permanent Magnetics	Coercivity enhancement of Nd-Fe-B sintered magnets by two-step grain boundary diffusion using low-melting-point alloys	이경미(연세대)
PM07	Permanent Magnetics	Improved magnetic performance of Nd-Fe-B sintered magnet by effective grain boundary diffusion using hydrogenated Tb-Al alloy	이현숙(연세대)
PM08	Permanent Magnetics	Research on elements forming intergranular phases of SmFe ₁₂ -based alloys	주천홍(KIMS)
PM09	Permanent Magnetics	Effect of L-PBF process parameters on microstructure and magnetic property of Nd-Fe-B permanent magnet	김연우(KIMS)
PM10	Permanent Magnetics	Fabrication of Nd-Fe-B pressless sintered magnets by the favorable reduction-diffusion reaction of chemically prepared submicron Fe	김정현(서울과학기술대)
PM11	Permanent Magnetics	입계확산 Nd-Fe-B 소결자석의 자기특성 및 미세조직 연구	김승환(전남대)
PM12	Permanent Magnetics	SmCo 영구자석의 열처리 조건에 따른 자기특성 및 미세구조 변화	박승일(전남대)
PM13	Permanent Magnetics	Enhancement of magnetic properties in Co-free M-Type Hexaferrites for permanent magnets	윤일호(한국교통대)
PM14	Permanent Magnetics	Enhancement of magnetic properties of sintered Nd-Fe-B magnet with grain boundary diffusion process of Tb-Al-Cu	이동현(경북대)
PM15	Permanent Magnetics	Effects of constituent phases and microstructural characteristics on magnetic properties of anisotropic hot-deformed magnets produced by (Nd _{1-x} Ce _x)-Fe-B HDDR powders	유재경(KIMS)
PM16	Permanent Magnetics	비정질 전구체를 사용한 다상의 구조를 가지는 고품성 Nd 저감형 Nd-Fe-B 열간변형 자석의 제조	김가영(KIMS)
PM17	Permanent Magnetics	Manufacturing of Nd-Fe-B permanent magnets using spark plasma sintering and development of an internal grain boundary diffusion process	김성찬(계명대)
PM18	Permanent Magnetics	Enhancement of magnetic properties in Co-free M-Type Hexaferrites for permanent magnets	윤일호(한국교통대)
PM19	Permanent Magnetics	Rare-Earth-Free MnBi Permanent Magnets: Bulks and Thin Films	이현숙(연세대)
PM20	Permanent Magnetics	Effect of grain boundary diffusion of LaF ₃ -GaF ₃ mixture on magnetic properties of Nd-Fe-B sintered magnets	장예령(연세대)
PM21	Permanent Magnetics	Iron oxide based composite nanoparticles with multiple nanointerfaces between soft magnetic and hard magnetic materials	윤민별(KIMS)
PM22	Permanent Magnetics	Hard Ferrite Composite Particles for Millimeter-wave Wideband Absorption.	박혜진(KIMS)
PM23	Permanent Magnetics	Magnetic properties and structural of Al doped M-type SrFe _{12-x} Al _x O ₁₉ hexagonal ferrite	최재영(KIMS)
PM24	Permanent Magnetics	Processing Conditions and Additive Effects of M-type Hexaferrite Synthesized by Solid-State Reaction Method	성민경(숙명여대)
SM01	Soft Magnetics	분말기반 Fe-6.5%Si 전기강판 제조기술 개발	권기혁(포항공과대학교 연구원)
SM02	Soft Magnetics	Conditional Variational Autoencoder-based inverse design and VIT-based Bulk Modulus Prediction	김민규(한남대)
SM03	Soft Magnetics	Effect of Nb/Zr co-addition on the soft magnetic properties and crystallization behavior of Fe _{77.5} Si _{11.5} B ₇ Nb _x Zr _{3-x} Cu ₁ nanocrystalline alloys	임현아(KIMS)
SM04	Soft Magnetics	Improved Heat Resistance of Dry-coated Fe-Ni@MgO Soft Magnetic Composites	김혜란(KIMS)
SM05	Soft Magnetics	High-temperature heat resistance of FeNi@MgO soft magnetic composites prepared through sol-gel-based surface	박정현(KIMS)
SM06	Soft Magnetics	Effect of external magnetic field on electromagnetic wave absorption properties of various ferrimagnetic ceramics	허재희(한국교통대)
SM07	Soft Magnetics	Synthesis and electromagnetic wave absorption properties of Zn-substituted Z-type Sr-hexaferrite-epoxy composites	허재희(한국교통대)

SM08	Soft Magnetics	Surface-insulated anisotropic Fe-Si chips for high-permeability soft magnetic composites	박종민(KIMS)
SM09	Soft Magnetics	Improved glass forming ability of carbon-added Fe76Si9-xB10P5Cx amorphous soft magnetic alloy for gas atomization	남영균(KIMS)
SM10	Soft Magnetics	Microwave Absorption Performance of BaFe12O19/MXene Composites in The X- and Ku-bands	김상우(한국외대)
SM11	Soft Magnetics	Active Modulation of Plasmon-Induced Transparency in THz Metamaterials Embedded with Vanadium Dioxide	김태한(한국외대)
SM12	Soft Magnetics	Effects of W, Mo Addition on Microstructure, Magnetic and Thermal Properties of Fe-Si-B-Nb-Cu-X (X=Mo, W) Nanocrystalline Soft Magnetic Alloy	안수봉(KIMS)
SM13	Soft Magnetics	Amorphous Nature and Soft Magnetic Properties of Melt-spun Fe80P13-xC7Mx (M=Si, Ge, Sn, or Sb) Alloys	박지혜(숙명여대)
SM14	Soft Magnetics	Properties of NANOMET-based alloys that vary according to ribbon fabrication conditions	이현경(숙명여대)
SM15	Soft Magnetics	Correlation Between Annealing Temperature and Magnetic Properties of Nanocrystalline FeSiBPCuC	임지윤(숙명여대)
SM16	Soft Magnetics	Nanoarchitecting Chiral Magnetic Nanocoils for Inducing Electromotive Force at the Nanoscale	정은진(고려대)
SM17	Soft Magnetics	Semiconductor Metamaterial Bio-Sensor Using Tunable Electromagnetically Induced Transparency-like Phenomenon in the Terahertz Regime	김태한(한국외대)
SM18	Soft Magnetics	Structural Evolution and Soft Magnetic Properties of Fe49Co49V2 Alloy under Stress Relief Annealing	박지혜(숙명여대)
SM19	Soft Magnetics	Effect of Nb Content on Thermal Stability and Magnetization Inversion in Fe-Si-B-P-Cu-Nb Ribbons	이현경(숙명여대)
SM20	Soft Magnetics	Impact of Three Key Variables of Melt-Spinning Process Conditions on Fabricating Fe-Co-Ti-Zr-B Ribbons	임지윤(숙명여대)
TC01	Theory and Computational Magnetics	Energetics of Co substitution in FeRh: Antiferromagnet vs Ferromagnet	한귀현(울산대)
TC02	Theory and Computational Magnetics	Spin Hall conductivity of Pt thin film	김경혜(울산대)
TC03	Theory and Computational Magnetics	Theoretical Investigation of the Electronic and Magnetic Properties of Cr2Se3	김재원(KAIST)
QM01	Quantum Magnetism (Oxide Magnetics)	Electric-Field-Driven Topological Phase Transitions in Kitaev's Quantum Spin Liquids	노푸름(KAIST)
QM02	Quantum Magnetism (Oxide Magnetics)	Dynamical mean-field study of self-doped double-exchange ferromagnetism in 1T-CrTe2	이동현(KAIST)
QM03	Quantum Magnetism (Oxide Magnetics)	Exciton coupled to bond-dependent quantum magnetism in honeycomb oxide Cu3Co2SbO6	강백준(UNIST)
LM01	Low Dimensional Magnetics	Investigation of optical properties in a single GaAs coupled quantum dots	김희대(전북대)
LM02	Low Dimensional Magnetics	Voltage Control of Magnetic Anisotropy in van der Waals Ferromagnetic/Ferroelectric Heterostructures	엄재연(KIST)
LM03	Low Dimensional Magnetics	Shubnikov-de Haas Effect in Graphene with the van der Waals Contact through hBN	권민성(KIST)
LM04	Low Dimensional Magnetics	Ultrafast Dynamics of van der Waals Antiferromagnet NiPS3 Studied by Time-Resolved X-Ray Absorption Spectroscopy	김형도(포항공과대학교)
LM05	Low Dimensional Magnetics	Co-doping induced phase transition from Ferromagnetic to Antiferromagnetic in van der Waals Ferromagnet Fe3GaTe2	안효빈(성균관대)
LM06	Low Dimensional Magnetics	Shubnikov-de Haas Effect in Graphene with the van der Waals Contact through hBN	권민성(KIST)
LM07	Low Dimensional Magnetics	Anisotropic magneto-transport of layered van der waals magnet-based spin devices	김창희(KIST)
SD01	Magnetic Sensors and Micro-Devices	Receiving Resonant Phase-modulated Signals with an Atomic Magnetometer for Magnetic Communications	이현준(한국전자통신연구원)
SD02	Magnetic Sensors and Micro-Devices	Modulating the molecular orbitals of matter through tailoring at the nanoscale using a topographic interface to enable versatile colloidal current devices.	Ali Abbas(DGIST)
SD03	Magnetic Sensors and Micro-Devices	요골동맥에서 흡수자 맥진기와 광용적 맥파센서로 측정된 맥진 파형의 특성 비교 연구	이상석(상지대)
SD04	Magnetic Sensors and Micro-Devices	Machine Learning Guided-Anomaly Detection in Falling Behavior with Magnetic Sensors	이정환(한남대)
SD05	Magnetic Sensors and Micro-Devices	Spin Hall Magnetic Field Sensor Using Wheatstone Bridge Pattern	최종범(KIST)
SD06	Magnetic Sensors and Micro-Devices	Low-Frequency Noise and Detectivity Analysis of Planar Hall Magnetoresistance Sensors for Applications	김진우(DGIST)
SD07	Magnetic Sensors and Micro-Devices	배관검사 로봇용 PET 센서 제작	김은애(㈜센서피아)
OS01	Others	Tunable magnetic properties of GdFeCo thin films under various sputtering conditions	성한울(KIST)
OS02	Others	Chemical Vapor Deposition Growth of Highly Crystalline Ferromagnetic CoS2	장지민(성균관대)
OS03	Others	L10 FePt 층과 계면을 이루는 스핀 전류원의 성장 기구 연구	임은지(울산대)
OS04	Others	The long range magnetic ordering via asymmetric cation spin correlation	이승용(연세대)