

2024년 한국자기학회 하계학술대회 포스터발표 번호

발표번호	발표분야	제목	발표자	소속
EM01	Electro-Magnetic Energy Conversion	전기자 주파수 제어를 통한 동축 마그네틱 기어의 속도비가변 기법에 관한 연구	강영재	한양대학교
EM02	Electro-Magnetic Energy Conversion	Design process of high power density hybrid type motor using 3D printing	김효구	가천대학교
EM03	Electro-Magnetic Energy Conversion	A study on eddy current loss reduction geometry for AFPM using metal 3D printing process	고승훈	가천대학교
EM04	Electro-Magnetic Energy Conversion	A Study on Cogging Torque Reduction Design of the Consequent Pole IPMSM	송윤하	가천대학교
EM05	Electro-Magnetic Energy Conversion	Compound Motor design process for high torque	한형섭	가천대학교
EM06	Electro-Magnetic Energy Conversion	A study on reducing cogging torque and torque ripple by changing the shape of large ship motor	전수빈	가천대학교
EM07	Electro-Magnetic Energy Conversion	Designing magnetic fluid seal geometry to increase pressure resistance and minimize magnetic fluid	김종현	가천대학교
EM08	Electro-Magnetic Energy Conversion	Research on The Design of Permanent Magnet Motors Applying PWM Control	김수범	가천대학교
EM09	Electro-Magnetic Energy Conversion	회전자 주조결함 검출기 자기회로 구조설계 및 실험검증	이규석	한국생산기술연구원
EM10	Electro-Magnetic Energy Conversion	분할 고정자 적용 회전자 주조 결함 검출기 설계 및 특성 분석	서재혁	한국생산기술연구원
EM11	Electro-Magnetic Energy Conversion	EV 구동용 IPMSM의 모터 파라미터 고조파를 고려한 PWM 전류 고조파 및 철손 분석	홍현정	한양대학교
EM12	Electro-Magnetic Energy Conversion	FeCoV 전기강판을 활용한 영구자석 전동기 출력밀도 개선에 관한 연구	이재광	한국전자기술연구원
MS01	Magnetics in Medical Science	Effect of tooth bleaching using cold plasma (Magnetic Fields) combined with a tooth bleaching gel containing strawberry juice	한만석	강원대학교
MS02	Magnetics in Medical Science	Analysis of Image Quality, Useful factor in 3D -CT of High-Energy Electromagnetic Radiation	김창규	김천대학교
MS03	Magnetics in Medical Science	Modeling Medical Phantom of X-Ray Phase Contrast in 3D - MDCT	김창규	김천대학교
MS04	Magnetics in Medical Science	Development of Two-Layer Interaction Depth Measurement Detector for Small Animal PET/MRI through Photoelectric Peak Analysis	이승재	동서대학교
MS05	Magnetics in Medical Science	DOI Detector Design with Multiple Layers of Scintillation Pixel Arrays of Different Sizes	이승재	동서대학교
MS06	Magnetics in Medical Science	팔각형과 사각형 구멍 배열의 평행다공형 콜리메이터 설계	김현동	동서대학교
MS07	Magnetics in Medical Science	Effects of Scapulohumeral Rhythm Enhancement Training Combined with 1Hz Low-Frequency Repetitive Transcranial Magnetic Stimulation on Muscle Tone, Muscle Activity of Upper Limb and Scapular Alignment in Stroke Patients	박신규	강원대학교
MS08	Magnetics in Medical Science	Development of Multichannel Intersectional Short Pulse Stimulation for Deep Brain Current Stimulation	정영진	전남대학교
MS09	Magnetics in Medical Science	Development of Temporal Interference Stimulation System for Deep Brain Neuro-Modulation	정영진	전남대학교
MS10	Magnetics in Medical Science	Adaptive Semantic Checking and Hidden Feature Extraction 2 for Optimal Medical Video Retrieval	정영진	전남대학교
MS11	Magnetics in Medical Science	Cardiovascular Risk Assessment using Machine Learning Techniques	정영진	전남대학교
MS12	Magnetics in Medical Science	Dose Analysis of Reproductive Organs (Ovary, Uterus, Fallopian tube, Vagina) during Abdomen Radiography for Childbearing Age's Women	양정규	분당서울대학교
BM01	Bio-Convergence Magnetics	Antibody-Conjugated Magnetic Nanoparticle Therapy Using Microneedle Patch for Inhibiting T-cell Mediated Inflammation	최종구	상지대학교
BM02	Bio-Convergence Magnetics	Unidirectional transport of microrobot using magnetic lateral ladder and its application in the Cells-on-Chip devices	Ali Abbas	대구경북과학기술원
MM01	Mössbauer Magnetics	공기극 촉매 변화에 따른 고분자 연료전지 MEA 성능 및 내구성에 관한 연구	길민영	한국에너지기술연구원
MM02	Mössbauer Magnetics	Raman and Mössbauer spectroscopic properties of iron corrosion products on iron artifacts	최현경	한국원자력연구원
MM03	Mössbauer Magnetics	Study on the characteristics of pottery by color in the Baekje cultural area using Mössbauer spectroscopy	최현경	한국원자력연구원
MM04	Mössbauer Magnetics	모스바우어 분광 분석을 이용한 화강암 내 흑운모 광물의 Fe 원자가 연구	진미은	한국원자력연구원
MM05	Mössbauer Magnetics	Evaluation of magnetic characteristics changes in iron oxide nanoparticle-based sonodynamic therapeutics using Mössbauer spectroscopy	홍성표	한국원자력연구원
SS01	Spintronics	CoTb alloy for ultrafast-demagnetization-driven spin current and orbit current	이희동	성균관대학교

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SS02	Spintronics	Unconventional Magnon Magnetoresistance in a van der Waals Ferromagnet Fe ₃ GeTe ₂	지유빈	한국과학기술원
SS03	Spintronics	A study of the change in the magnetic anisotropy depending on deposition conditions of Pt/Co/HfO thin films	박진혁	고려대학교 세종캠퍼스
SS04	Spintronics	The tuning of RKKY interaction by metal spacer thickness variation between noncollinear magnetic anisotropy	유승훈	고려대학교세종캠퍼스
SS05	Spintronics	Consideration of parasitic elements in magneto-impedance	최준영	한국과학기술원
SS06	Spintronics	Microscopic Mechanism of Magnetic Stability in Transition-Metal Dihalides: Goodenough-Kanamori-Anderson Rules in 2D Magnet	Thi Phuong Thao Nguyen	Osaka University
SS07	Spintronics	Observation of the z-polarized Spin Current in Epitaxial CrSb	Chih-Hsiang Tseng	Kyoto University
SS08	Spintronics	Development of a magnetic force microscope controllable by Python programming language	Ryo Matsuura	Osaka University
SS09	Spintronics	Stochastic motion of skyrmions and its information dynamics	Yoshishige Suzuki	Osaka University
SS10	Spintronics	Two-skyrmion dynamics at finite temperature in a box: A simulation study on information theoretic analysis	Eiiti Tamura	Osaka University
SS11	Spintronics	Simulation of Wavelength Modulation of Drifted Electron Spin Waves in GaAs Quantum Wells	Futa Sugawara	Tohoku University
SS12	Spintronics	Spin-orbit torque-induced field-free switching of magnetization using tilted perpendicular magnetic anisotropy	이상선	한국표준과학연구원
SS13	Spintronics	Optical measurements of SOT in sputter-deposited Bi and PtMn alloy films	김수민	성균관대학교
SS14	Spintronics	Magnon-mediated Dzyaloshinskii-Moriya torque in antiferromagnets	박연수	한국과학기술원
SS15	Spintronics	Spin coherence length in d-wave altermagnet	고혜원	한국과학기술원
SS16	Spintronics	Investigating Current-Induced Variations in 2nd Harmonic Measurements of Pt/Co Multilayer Structures	조용환	고려대학교 세종캠퍼스
SS17	Spintronics	IrMn Thickness Dependences of the Exchange Bias Field and Blocking Temperature of IrMn/Co Structure	강도현	대구경북과학기술원
SS18	Spintronics	Optically driven magnon torque in a trilayer of Pt/NiO/Co	고경훈	성균관대학교
SS19	Spintronics	Study of spin waves for the epitaxial antiferromagnetic α -Fe ₂ O ₃ thin film	김수정	대구경북과학기술원
SS20	Spintronics	Effect of ionic gating on the interfacial Dzyaloshinskii-Moriya Interaction in PtCoPt system	조재용	대구경북과학기술원
SS21	Spintronics	나노 스케일 자구벽 로직을 위한 Pt/Co 및 CoFeB/MgO 결합 시스템에서 Dzyaloshinskii-Moriya 상호작용 정량화	서성빈	울산대학교
SS22	Spintronics	Field-Free Spin-Orbit Torque Switching in Compensated Ferrimagnet/Non-magnet/Ferromagnet Trilayers	한동현	한국과학기술원
SS23	Spintronics	Stochasticity Anomaly in Tech-Relevant Speed Range of Magnetic Domain-Wall Motion at Depinning Field	김명희	서울대학교
SS24	Spintronics	Tunable Spin-Orbit Torque in Ferromagnet/Metal Structures by Applying Gate Voltage	김민구	고려대학교 세종캠퍼스
SS25	Spintronics	Mutually synchronization of nanogap-based spin Hall nano-oscillator arrays	강민석	카이스트
SS26	Spintronics	Considerable Field-like Spin-Orbit-Torque in Pd/Co heterostructures	장승훈	서울대학교
SS27	Spintronics	The Effect of Ta Capping Layer on Proton Mediated Voltage Controlled Magnetic Anisotropy	주태성	한국표준과학연구원
SS28	Spintronics	FMR 측정을 이용한 Mn ₃ Sn 박막에서의 자기 동역학 연구	피진주	울산대학교
SS29	Spintronics	Physical unclonable function based on magnetic random-access memory	강재민	한국과학기술원
SS30	Spintronics	Coherent Coupling and Multiple Interconversions of Propagating Magnons and Bulk Acoustic Phonons in YIG/GGG Thin Film	송무준	한국과학기술원
SS31	Spintronics	Influence of Interfacial Characteristics on Spin-Orbit Torque Switching of Epitaxial Mn ₃ Sn/W Bilayers	이시하	울산대학교
SS32	Spintronics	카이랄 결합을 하는 수직 자화 합성 반강자성 다층 박막 구조에서 스핀이서의 두께에 따른 SOT 스위칭 특성 연구	최원영	울산대학교
SS33	Spintronics	The Observation of Spin-Orbit Torque Modulation by Applying Gate Voltage in Ferromagnet/Normal-Metal Bilayers	이재호	고려대학교 세종캠퍼스
SS34	Spintronics	S-W 모델을 기반으로 한 입상 자성 박막의 통계 분석	이동현	울산대학교

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SS35	Spintronics	Anisotropic Electric Properties and Methodologies for Measuring Anisotropic Resistivity	김광수	울산대학교
MD01	Magnetization Dynamics	Spin-orbit torque switching with spin pumping from antiferromagnets	김석중	한국과학기술원
MD02	Magnetization Dynamics	Magnonic frequency comb on symmetry broken vortex structure	정우림	대구경북과학기술원
MD03	Magnetization Dynamics	Time-resolved measurement of ultrafast magnetization switching induced by spin - orbit-torque	신지호	서울대학교
MD04	Magnetization Dynamics	Method for Determining the Magnetic Momentum Compensation Temperature of Ferrimagnets by Extrapolating from Narrow Temperature Range	장준영	서울대학교
MD05	Magnetization Dynamics	Heating with Vortex Core Gyration: Micromagnetic Simulation and Analysis Models	박영건	울산과학기술원
MD06	Magnetization Dynamics	Exploring the Impact of Surface Roughness on Spin Orbit Torque in Pt/Co Multilayer Structures	윤창진	고려대학교 세종캠퍼스
MD07	Magnetization Dynamics	Skyrmion generation via topological changes of domain wall	정수영	울산과학기술원
MD08	Magnetization Dynamics	Resoulution of chiral spin dynamics at Pt/Co single interface	유지성	서울대학교
MD09	Magnetization Dynamics	Anomalous Nernst Effect in Mn3Sn Thin Films	ULLAH ASIF	울산대학교
MD10	Magnetization Dynamics	Observation of huge Dzaloshinskii-Moriya interaction at Pt/Co	한건희	서울대학교
MD11	Magnetization Dynamics	Magnetic damping control by surface magnon generated via ultrafast transient grating excitation	김지완	군산국립대학교
MD12	Magnetization Dynamics	The annealing effects of the MgO/CoFeB/Ta/Co/Pt structures	조재훈	대구경북과학기술원
MD13	Magnetization Dynamics	The magnetic properties of the wedge type perpendicularly magnetized Pt/Co/Pt/Ru/Pt/Co samples	민성현	대구경북과학기술원
MD14	Magnetization Dynamics	L10 FePt 조성 구배 박막의 강자성 공명 조사	정동찬	울산대학교
PM01	Permanent Magnetics	Effects of homogenization temperature on magnetic properties of Mn4C bulk magnets	ZHANG BAOCHAO	한국재료연구원
PM02	Permanent Magnetics	Thermal Stability and Intrinsic Magnetism of Mn - Bi - Ge alloys: A Potential Gap Permanent Magnet	Bat-Erdene	인천대학교
PM03	Permanent Magnetics	Fe-Nd 복합산화물 기반의 환원-산화 공정을 통한 Nd2Fe14B 미세 분말의 효과적 합성과 반응 경로의 이해	김정현	서울과학기술대학교
PM04	Permanent Magnetics	Effect of magnetic properties on corrosion behavior of sintered Nd-Fe-B magnets for traction motor	장진혁	현대트랜시스
PM05	Permanent Magnetics	환원-산화 공정 최적화를 통한 단상의 SmFe11Ti 미세 분말 합성	윤경식	서울과학기술대학교
PM06	Permanent Magnetics	환원-산화 공정을 이용한 Tb70Cu30 입계-산화 합금 분말의 미세화 및 반응 메커니즘 연구	김현성	서울과학기술대학교
PM07	Permanent Magnetics	Study on Microstructure and Magnetic Properties of Grain Boundary Diffusion Processed Nd-Fe-B Sintered Magnet	김승한	전남대학교
PM08	Permanent Magnetics	Enhanced Tunability of Millimeter Wave Absorption Properties in Hard Ferrites	윤민별	한국재료연구원 부산대학교
PM09	Permanent Magnetics	Enhancement of magnetic properties of Tb-Al-Cu diffusion magnets depending on grain boundary diffusion process conditions	이동현	경북대학교
PM10	Permanent Magnetics	Emerging the diluted ferrimagnetic ordering from antiferromagnetic NiWO4 strongly correlated electron system	이승용	연세대학교
PM11	Permanent Magnetics	Synthesis of Low-Melting Tb30Nd40Cu30 Alloys using Tb4O7 and Nd2O3 Precursors and Their Grain Boundary Diffusion Effect on Coercivity and Microstructure of Sintered Nd-Fe-B Magnets	이설미	재료연구원
PM12	Permanent Magnetics	Oxidation-resistant Iron Nitride (α '-Fe16N2) Nanoparticles	박혜진	한국재료연구원
PM13	Permanent Magnetics	GBDP 전처리 공정변수에 따른 Nd-Fe-B 소결 자석의 자기적 특성 비교	주현빈	생산기술연구원
PM14	Permanent Magnetics	Improvement of magnetic properties of Ce-substituted hot deformed magnet through grain boundary diffusion process	김재혁	연세대학교
PM15	Permanent Magnetics	Improvement of coercivity and microstructure by internal grain boundary diffusion of SPSeNd Nd-Fe-B magnet	김성찬	대구경북과학기술원
PM16	Permanent Magnetics	Effects of La-Co substitution and magnetic field pressing on structures and magnetic properties of M-type Sr-hexaferrites	이강혁	서울대학교

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PM17	Permanent Magnetics	Microstructures and magnetic properties of Hot-deformed dual-main-phase Nd-Ce-Fe-B magnets	이경미	연세대학교
SM01	Soft Magnetics	The effect of punching process on the motor core performance in electrical steel	김지영	현대제철
SM02	Soft Magnetics	A study on mass production process of fine amorphous/nanocrystalline soft magnetic powders	최용석	제닉스 주식회사
SM03	Soft Magnetics	The Manufacturing Conditions of powder-based Fe-6.5%Si steel by powder rolling	최용석	제닉스 주식회사
SM04	Soft Magnetics	Graphene Oxide 코팅이 FeSiCrB의 코어 손실에 미치는 영향	김상우	한국외국어대학교
SM05	Soft Magnetics	FeSiCrB 기반 이중 분말의 CIP 함량에 따른 충진율 및 투자율의 향상	김상우	한국외국어대학교
SM06	Soft Magnetics	Composition Effects on the Electromagnetic Wave Absorption Properties of W-Type Hexaferrite	허재희	국립한국교통대학교
SM07	Soft Magnetics	Influence of temperature on iron loss properties of non-grain-oriented electrical steel for HEV, EV traction motor	이영민	현대트랜시스
SM08	Soft Magnetics	Improvement of Structural and Magnetic Properties According to the Nb Content in Fe-Si-B-P-Cu Alloys and Annealing Process	이현경	숙명여자대학교
SM09	Soft Magnetics	Effect of Heat Treatment Temperature on Soft Magnetic Properties of FeCo-2V Electric Steels	이하람	숙명여자대학교 한국생산기술연구원
SM10	Soft Magnetics	Variation of Properties in Soft Magnetic Materials according to Fe and Co Contents	최유진	숙명여자대학교 한국생산기술연구원
SM11	Soft Magnetics	Soft magnetic properties of the amorphous core prepared by spark plasma sintering of amorphous Fe-based powder	김진아	경북대학교
SM12	Soft Magnetics	Enhancement of soft magnetic properties through nanocrystallization of Fe-based amorphous precursors containing small amounts of Cu-Al	남형진	경북대학교
SM13	Soft Magnetics	Soft magnetic properties of Fe-Si-C-P amorphous ribbons	김무성	경북대학교
SM14	Soft Magnetics	Enhancement of soft magnetic properties through nanocrystallization of Fe-based amorphous precursors containing small amounts of Carbon Content	김기호	경북대학교
SM15	Soft Magnetics	M-type hexaferrite-epoxy composites for effective millimeter wave absorbers	박건영	한국교통대학교
SM16	Soft Magnetics	Influence of Powder Mixing Ratio on Soft Magnetic Properties of Fe-Si-Al-P Soft Magnetic Composite Cores	임지윤	숙명여자대학교 한국생산기술연구원
SM17	Soft Magnetics	Effect of content ratio of Si and B on soft magnetic properties of Fe-based alloys	최영신	한국생산기술연구원
SM18	Soft Magnetics	Enhancing core loss characteristics of bimodal amorphous soft magnetic composites via dry-processing particle insulation	김혜란	한국재료연구원
SM19	Soft Magnetics	High-permeability Fe-Si-B-Nb-Cu-X (X=Mo, W) Nanocrystalline Alloy Ribbons Prepared through Process-optimized Melt Spinning with Simulation	안수봉	한국재료연구원
SM20	Soft Magnetics	Effect of carbon addition on glass forming ability and soft magnetic properties of Fe76Si9-xB10P5Cx amorphous alloy	남영균	한국재료연구원
SM21	Soft Magnetics	Effect of Nb/Mo on crystallization behavior and the soft magnetic properties of Fe82-xCu1Nb1Si4B12Mx (M=Nb, Mo, x= 0-2) nanocrystalline Alloys	임현아	한국재료연구원
QM01	Quantum Magnetism (Oxide Magnetics)	Dynamic Orders of Quantum Spin Liquids at non-zero Temperatures	박민수	한국과학기술원
QM02	Quantum Magnetism (Oxide Magnetics)	Effect of Weak Disorder on Kitaev Honeycomb Model	이승훈	한국과학기술원
QM03	Quantum Magnetism (Oxide Magnetics)	Vision Manipulation Through Unitary Operator in the Kitaev Quantum Spin Liquid	박성준	한국과학기술원
QM04	Quantum Magnetism (Oxide Magnetics)	Spin Hall magnetoresistance and Torque magnetometry for Cobalt-based honeycomb oxides heterostructure	강백준	울산과학기술원
QM05	Quantum Magnetism (Oxide Magnetics)	Exploring Ferromagnetism at the Interface of Cobalt-Based Oxide Heterostructures	최옥삼	울산과학기술원
TC01	Theory and Computational Magnetics	Multiscale spin simulation based on first-principle calculation with magnetic force theory	차유현	한국과학기술원
TC02	Theory and Computational Magnetics	Spin Hall Conductivity in β -tungsten alloy	이현주	울산대학교
TC03	Theory and Computational Magnetics	Induced magnetostriction using tetragonal distortion in bcc Fe and fcc Ni	유민재	울산대학교

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발표번호	발표분야	제목	발표자	소속
TC04	Theory and Computational Magnetism	Theoretical and Computational study on 1T-TaSe2 1D chain system	문승록	강원대학교
TC05	Theory and Computational Magnetism	Intrinsic magnetism of 3d transition metals on MoSe2 monolayer	Batnyam	인천대학교
LM01	Low Dimensional Magnetism	VAE를 통한 2차원 카이랄 자성 구조의 상전이 연구	윤한규	경희대학교 한국과학기술연구원
LM02	Low Dimensional Magnetism	XXZ model study using DMRG implemented complex time evolution	차정혁	강원대학교
LM03	Low Dimensional Magnetism	Magnetic properties of Organic-Inorganic Hybrid Perovskite materials as a function of Metal Substitution	강지호	공주대학교
LM04	Low Dimensional Magnetism	Ferromagnetic Resonance study on YIG Thin Films	김지엽	기초과학연구원
SD01	Magnetic Sensors and Micro-Devices	Design of Electromagnetic Induction Imaging System with an Atomic Magnetometer	이현준	한국전자통신연구원
OS01	Others	Charge transport study on a filtrated Ti3C2Tx-Ti3AlC2 nanosheet thin films	이동건	기초과학연구원
OS02	Others	Orbital-driven Double Nodal-line States in a Room-temperature van der Waals Ferromagnet Fe3GaTe2	강범탁	포항공과대학교