

PRICM11 Poster Presentation Schedule

Presentation Date : November 20 (Mon.), 2023

No.	Symposium Code	Symposium Topics	Submission No	Name	Affiliation	Abstract Title
1	Symposium A	Advanced Steels and Properties	P-A0011	Xin Ouyang	Anshan Iron And Steel Group Steel Research Institute	Research and development of S22053+12MnNiVR stainless steel rolling clad plate by Ansteel
2	Symposium A	Advanced Steels and Properties	P-A0012	Guo Peng	AnShan Iron And Steel Group Corporation	Microstructure and precipitated phase changes of a Cu-Nanophase Precipitation Strengthening Steel under welding thermal cycle
3	Symposium A	Advanced Steels and Properties	P-A0014	Liangliang Zhang	Shougang Group Co., Ltd	Effect of alloying elements Al and Si on high temperature oxidation behavior of 1000MPa ultra-high strength steel
4	Symposium A	Advanced Steels and Properties	P-A0048	PENG GAO	State Key Laboratory Of Metal Material For Marine Equipment And Application	Corrosion Behavior of Q500qENH Weathering Bridge Steel in a Simulated Rural Atmosphere
5	Symposium A	Advanced Steels and Properties	P-A0051	Lin Li	State Key Laboratory Of Metal Material For Marine Equipment And Application	Study on Corrosion Behavior of Q690qENH and 09CuPCRNi in Marine Industrial Atmospheric Environment
6	Symposium A	Advanced Steels and Properties	P-A0054	Xiandong Su	Ansteel Group Corporation	Corrosion Behavior of Typical Ship Plate Steels in Simulated Marine Atmospheric Environment
7	Symposium A	Advanced Steels and Properties	P-A0069	Fuyue Wang	Ansteel Iron & Steel Research Intitute	Microstructure control and stenghtening-toughening mechanism of 68.4GPa-% grade cold rolled steel
8	Symposium A	Advanced Steels and Properties	P-A0497	Kyung-tae Park	Hanbat National University	Effects of Stress Triaxiality Distribution on Tensile Fracture of Notched TWIP Steel Plate
9	Symposium A	Advanced Steels and Properties	P-A0506	Hyunsu Kang	Korea Institute Of Industrial Technology	Phase transformation of Cu precipitates in Fe-10Cu alloy fabricated by Hot Isostatic pressing
10	Symposium A	Advanced Steels and Properties	P-A0732	Niladri Naskar	Seoul National University	Integrated decarburization and oxidation model for high carbon-chromium containing steel
11	Symposium A	Advanced Steels and Properties	P-A0971	Yoonmoon Chung	Hanyang University	Hydrogen embrittlement of 300-series stainless steels under cryogenic conditions
12	Symposium A	Advanced Steels and Properties	P-A0973	Chae Young Kim	Hanyang University	Designing lightweight Co-free maraging steels
13	Symposium A	Advanced Steels and Properties	P-A0980	Hyun Wook Lee	Hanyang University	The relationship between thickness depth and hydrogen embrittlement in pipeline steel
14	Symposium A	Advanced Steels and Properties	P-A1003	Kwangsue Choi	Korea Institute Of Industrial Technology	Comparison of Microstructural and Mechanical properties of Weld Joints in 9% Ni steel Prepared with Ni-based and Fe-based Filler Materials
15	Symposium B	Advanced Processing of Materials	P-B0145	YOUNGHYUN KIM	Korea Institute Of Industrial Technology	Research on improved welding heat source model with FEM and Optimization Algorithm for cryogenic storage tank
16	Symposium B	Advanced Processing of Materials	P-B0223	Ryuto Morinaga	Kumamoto University	Microstructure and Mechanical Properties of Zinc Alloy Sheets Severely Deformed by ARB
17	Symposium B	Advanced Processing of Materials	P-B0277	Namito Yamanaka	Kyoto Institute Of Technology	Systematic simulations of semi-solid deformation using multi-phase-field lattice Boltzmann method
18	Symposium B	Advanced Processing of Materials	P-B0283	HAOTIAN SUN	Hokkaido University	Solid-state diffusion bonding between CoCrNi-based high entropy alloys system and 316 stainless steel by spark plasma sintering
19	Symposium B	Advanced Processing of Materials	P-B0339	Kotaro Yonemura	Tohoku University	Effect of impurity Zr contamination on properties of Ru-Mo-W alloys grown by the dewetting micro-pulling-down method
20	Symposium B	Advanced Processing of Materials	P-B0371	Hiroshi Yukawa	Nagoya Univesity	Effects of Heat Treatment in Hydrogen Environment on Hydrogen Permeability of Pd-40mass%Cu Alloy Membrane
21	Symposium B	Advanced Processing of Materials	P-B0705	DEEPAK KUMAR	INCHEON NATIONAL UNIVERSITY, INCHEON, REPUBLIC OF KOREA	Interfacial analysis using Smoothed Particle Hydrodynamics (SPH) and Molecular Dynamics (MD) during Al-Fe High-Speed Vaporising Foil Actuator Welding (VFAW)
22	Symposium B	Advanced Processing of Materials	P-B0730	SUNGJAE JO	Kongju National University	Characterization of AlSi10 Alloy Powder for the DED Process
23	Symposium C	Structural Materials for High Temperature	P-C0257	Koki Tanaka	Osaka University	High temperature fatigue behaviour of β -phase containing TiAl alloys fabricated by metal 3D printing
24	Symposium C	Structural Materials for High Temperature	P-C0684	Deokhyun Han	Institute For Advanced Engineering	A Study on the Effects of Milling Media Variations on Mechanical Alloying Behaviour in High-Energy Milling of Nb Powder
25	Symposium C	Structural Materials for High Temperature	P-C0722	Wonjune Choi	Arizona State University	Enhanced fracture toughness of Mo-Si-B-La ₂ O ₃ alloys for high-temperature structural materials
26	Symposium C	Structural Materials for High Temperature	P-C0744	Woocheol Kim	Seoul National University Of Science & Technology	Microstructural evolution of Mo-Si-B alloy using Mo powder with homogeneously dispersed oxide nanoparticles synthesized by ultrasonic spray pyrolysis

27	Symposium C	Structural Materials for High Temperature	P-C0806	Siyeon Kim	Seoul National University Of Science And Technology	Syntesis of Nb-Based MAX Phase Using Intermetallic Compounds of Nb-Al
28	Symposium D	Light Metals and Alloys	P-D0026	Fuyue Wang	Ansteel Iron & Steel Research Intitute	Effect of La on Mechanical Properties and Precipitated Phase Stability of 2195 Al-Li Alloy at Elevated Temperature□
29	Symposium D	Light Metals and Alloys	P-D0293	Takahiro Matsuda	Kumamoto University	Effect of microstructure on fatigue properties of Mg-Zn-Y and AZ31B
30	Symposium D	Light Metals and Alloys	P-D0304	Eito Ishii	National Institute Of Technology, Kagoshima College	Torque Characteristics and Cyclic Deformation Behaviour of Ti-Ni Superelastic Alloy Spiral Spring□
31	Symposium D	Light Metals and Alloys	P-D0305	Kento Okimoto	National Institute Of Technology(KOSEN), Niihama College	Hydrogen embrittlement behavior of 7xxx aluminum alloys processed by sliding friction treatment and subsequent aging
32	Symposium D	Light Metals and Alloys	P-D0312	Tomoki Katayama	Kyoto University	Effects of nitrogen content on microstructural stability and mechanical properties of fine-grained Ti-N alloy
33	Symposium D	Light Metals and Alloys	P-D0386	Masataka Ijiri	Tokyo Metropolitan University	Characteristics of Phosphate Film Formed on Cavitation-Treated AZ31 Magnesium Alloy Surface in Water□
34	Symposium D	Light Metals and Alloys	P-D0552	Shungo Takehata	Toyama University	Microstructure observation of Mg-Zn-Al alloy aged at 423K
35	Symposium D	Light Metals and Alloys	P-D0560	Hong Yang	Chongqing University	Optimizing the microstructures and enhancing the mechanical properties of AZ81 alloy by adding TC4 particles
36	Symposium D	Light Metals and Alloys	P-D0667	JABIR ALI SIDDIQUE	Korea University Of Science And Technology	Effect of cold rolling and annealing conditions on stretcher strain marks in new high Mg-added Al-Mg alloys□
37	Symposium D	Light Metals and Alloys	P-D0680	Byeong Kwon Lee	Korea Institute Of Industrial Technology	Influence of Al content change on microstructure and mechanical properties of Mg-Li alloy□
38	Symposium D	Light Metals and Alloys	P-D0687	Zhirou Zhang	Korea Institute Of Materials Science	Study on properties and precipitation behavior of Al-Mg-Si alloys with trace In content
39	Symposium D	Light Metals and Alloys	P-D0773	Ji-woon Lee	Kongju National University	Cryogenic Temperature Toughness of binary Al-Mg Alloys using Charpy impact tests□
40	Symposium D	Light Metals and Alloys	P-D0786	HyoSang Yoo	Korea Institute Of Industrial Technology	Effects of rare earth addition on microstructure, mechanical properties, and electrical conductivity of Al-Mn-Cu-Fe-Si-Zn based alloy
41	Symposium D	Light Metals and Alloys	P-D0847	Jin Hyeok Jang	Inha University	Effects of Superheating Treatment and T6 heat treatment on the tensile properties and thermal conductivity of Fe-bearing Al-10Si-Mg casting alloy□
42	Symposium D	Light Metals and Alloys	P-D0874	Young Min Kim	Korea Institute Of Materials Science	Applications of non-flammable and corrosion resistant Mg-Al-Zn-Mn-Ca-Y alloys
43	Symposium E	Additive Manufacturing	P-E0083	Gitaek Lee	Pohang University Of Science And Technology	Liquation cracking study of Alloy 718 manufactured by selective laser melting
44	Symposium E	Additive Manufacturing	P-E0276	Konosuke Ikeda	Kyoto Institute Of Technology	Multi-phase-field modeling to compute material microstructure evolutions affected by liquid flows during powder bed fusion
45	Symposium E	Additive Manufacturing	P-E0298	Tsubasa Sato	Osaka University	Effect of Excess Vacancies Induced by Laser-Beam Irradiation for Additive Manufacturing on Growth of Antiphase Domains in Fe ₃ Al Phase□
46	Symposium E	Additive Manufacturing	P-E0406	Hyo-Kyu Kim	Korea Institute Of Industrial Technology	Effect of process parameters on the mechanical properties of maraging steel(18Ni-300) manufactured by powder bed fusion
47	Symposium E	Additive Manufacturing	P-E0590	Hyeon-Taek Son	Korea Institute Of Industrial Technology	Effects on trace element and carbon on microstructure, mechanical properties and thermal conductivity of the 3D-printed Fe-Cu based alloy using by LPBF process□
48	Symposium E	Additive Manufacturing	P-E0597	Joseph Jo	Korea University School	Effect of Property Differences between Virgin and Used 18Ni300 maraging steel Powders on Mechanical Properties of Additive Manufacturing□
49	Symposium E	Additive Manufacturing	P-E0614	Jinsung JANG	Korea Atomic Energy Research Institute	Cubic and Epsilon Cobalt Phases in Direct Energy Deposition Additively Manufactured Co-Cr-W Alloy
50	Symposium E	Additive Manufacturing	P-E0649	Kwang Kyu Ko	Gyeongsang National University	Study of tensile properties and microstructure according to process parameters of Fe-2.7Mn-6.0Al-0.4C lightweight steel manufactured using DED□
51	Symposium E	Additive Manufacturing	P-E0659	CheolHyeok Yang	Changwon National University	Microstructure-Based Post-Heat Treatment Design of Inconel 939W fabricated by Laser-Powder Bed Fusion for Creep Enhancement□
52	Symposium E	Additive Manufacturing	P-E0697	Tingting Song	RMIT University	Understanding the superior mechanical properties of hollow-strut metal lattice materials
53	Symposium E	Additive Manufacturing	P-E0868	Jinhua Wang	Tsinghua University	Ultrastrong yet ductile additively manufactured steel via tailoring austenite stability
54	Symposium F	Thin Films and Surface Engineering	P-F0155	Sung Jun Kim	Hanyang University	Comparison of grain growth of poly-Si films deposited with PECVD, LPCVD and sputtering for 3D DRAM application
55	Symposium F	Thin Films and Surface Engineering	P-F0157	Jun Hyeong Park	Hanyang University	Modification of electrical and structural properties at interface between Ru and SiGe with annealing

56	Symposium F	Thin Films and Surface Engineering	P-F0202	Kazuma Nagai	Kyushu Institute Of Technology	Thermally-induced crystallization of amorphous HfO ₂ and ZrO ₂ laminate films
57	Symposium F	Thin Films and Surface Engineering	P-F0208	Haruna Nogami	Kyushu Institute Of Technology	Distribution and morphology of artificial pinning centers in YBa ₂ Cu ₃ O _{7-x} thin films
58	Symposium F	Thin Films and Surface Engineering	P-F0248	Noritsugu Kametani	Kyoto Institute Of Technology	Molecular dynamics study of residual stress in diamond-like carbon films during formation process: Impact of substrate material properties
59	Symposium G	Materials for Energy Storage and Generation	P-G0025	Seung Youb Han	Korea Atomic Energy Research Institute	Development of Technology for Manufacturing Simulated Test Rods and Shields Using High-performance Neutron Absorbing Materials
60	Symposium G	Materials for Energy Storage and Generation	P-G0028	Yuan Gao	Ansteel Beijing Research Institute Co.LTD	Effect of ash content on charge-discharge properties of needle coke based artificial graphite□
61	Symposium G	Materials for Energy Storage and Generation	P-G0045	Jong-Sung Yu	Daegu Gyeongbuk Institute Of Science & Technology (DGIS)	High-Energy Long-life Lithium-Sulfur Batteries via Redox-Active Interlayer Strategy□
62	Symposium G	Materials for Energy Storage and Generation	P-G0065	Kyeongseok Min	Inha University	Bimetallic Ni-Fe-S nanoparticles directly grown on porous MXene substrate as bifunctional electrocatalyst for water electrolysis
63	Symposium G	Materials for Energy Storage and Generation	P-G0068	Hyejin Kim	Inha University	Self-templating construction of Fe, F dual-doped CoS ₂ hollow nanospheres for highly efficient oxygen evolution reaction
64	Symposium G	Materials for Energy Storage and Generation	P-G0076	HAE MIN SEONG	Inha University, Incheon, 402-751, South Korea	Co, N co-doped Ni ₂ P on Ni foam as a bifunctional electrocatalyst for oxygen evolution reaction and urea oxidation reaction
65	Symposium G	Materials for Energy Storage and Generation	P-G0096	Junseong Kim	Inha University	Interface engineering strategy to optimize the electronic structure of CoFe LDH via hybridization with oxygen vacancy-enrich Co ₃ O ₄ for efficient oxygen evolution reaction
66	Symposium G	Materials for Energy Storage and Generation	P-G0424	Hideo Watanabe	Kyushu University	Radiation induced hardening of Fe-Mn-Ni alloys under irradiation
67	Symposium G	Materials for Energy Storage and Generation	P-G0473	Shimazu Itsuki	Okayama University	Improvement of electrical power generation from lead zirconate titanate piezoelectric ceramics
68	Symposium G	Materials for Energy Storage and Generation	P-G0537	Xue Gao	South China University Of Technology	The Role of Transition Metal Doping in Enhancing Hydrogen Storage Capacity in Porous Carbon Materials□
69	Symposium G	Materials for Energy Storage and Generation	P-G0545	Sanghoon Noh	Pukyong National University	Effect of Rhenium Addition on Microstructure and Mechanical Properties of Ni-16Mo ODS Alloys for Next Generation Energy Applications
70	Symposium H	Electronic and Magnetic Materials	P-H0365	Min-Kyung Seong	Sookmyung Women's University	Enhancement of Hard Magnetic Properties by Substitution on Fe ²⁺ sites of W-type Hexaferrites□
71	Symposium H	Electronic and Magnetic Materials	P-H0366	Jihye Park	Sookmyung Women's University	Cooling Rate Influence on Microstructure and Magnetic Properties in FeCo-2V Electrical Steels
72	Symposium H	Electronic and Magnetic Materials	P-H0388	Xiaotong Ma	Tohoku University	Study on Structural Characteristics and Magnetic Properties of Ultra-thin Pure Iron Ribbons with Various Annealing Temperatures
73	Symposium H	Electronic and Magnetic Materials	P-H0570	Ryota Kobayashi	Kagoshima University	Phase selection in Mn-Bi-Sb ternary system by in-magnetic-field annealing□
74	Symposium H	Electronic and Magnetic Materials	P-H0575	Yume Morishima	Kanazawa University	First-principles study of surface anomalous Hall effect in van der Waals antiferromagnets
75	Symposium H	Electronic and Magnetic Materials	P-H0622	Hyunkyung Lee	Sookmyung Women's University	Effects of Fine Nb Addition and Heat Treatment on Soft Magnetic Properties
76	Symposium H	Electronic and Magnetic Materials	P-H0647	Jiyeon Lim	Sookmyung Women's University	Reinforcement of Soft Magnetic Properties by Heat Treatment in Melt-spun Fe-based Ribbons
77	Symposium H	Electronic and Magnetic Materials	P-H0959	Kavita Kumari	Changwon National University	Tailoring the magnetic properties of Sm-Co nanocomposites through morphological evolution via HCl washing
78	Symposium H	Electronic and Magnetic Materials	P-H0987	Xiaowei Jin	Lanzhou University	Approach to improve the MHz performance of Fe-Si based soft magnetic composites□
79	Symposium H	Electronic and Magnetic Materials	P-H1181	Semin Park	Pukyong National University	Characterization of Fe-6.5% Si steel sheet produced 3D Printing
80	Symposium H	Electronic and Magnetic Materials	P-H1183	Jun Sang Choi	Sungkyunkwan University	Study on Moisture Trigger Self-Healing Effect of Ti3C2Tx MXene Electrode with Application
81	Symposium I	Biomaterials and Soft Materials and their Application	P-I0102	Tejas Mahesh Koushik	James Cook University	Functional and Hierarchical 3D Printed Scaffolds for Bone Tissue Engineering using 3Y-TZP/HAp Composites□
82	Symposium I	Biomaterials and Soft Materials and their Application	P-I0294	Kai Hiyama	Tohoku University	Effect of Ni and Fe content on microstructure and mechanical properties of biomedical Co-Cr-Fe-Ni-Mo alloy
83	Symposium I	Biomaterials and Soft Materials and their Application	P-I0401	Jae Gyu Ahn	Kongju National University	Flexible and transparent thermochromic device for energy-efficient smart windows using cellulose nanostructures
84	Symposium I	Biomaterials and Soft Materials and their Application	P-I0402	Taeyoung Park	Kongju National University	Hierarchical nanostructure with high uniformity in pore size derived from balsa wood for electrochemical capacitors

85	Symposium I	Biomaterials and Soft Materials and their Application	P-I0408	BeomJin Ko	Kongju National University	Excellent CO ₂ /CH ₄ /N ₂ Adsorption Capacity and Selectivity for 3D Graphene Nanostructure derived from Cellulosic Biomass
86	Symposium I	Biomaterials and Soft Materials and their Application	P-I0455	Song Hee Kim	University Of Ulsan College Of Medicine	Self-expandable Electrode based on Chemically polished Nickel-titanium alloy wire for Treating Endoluminal Tumors using Bipolar Irreversible Electroporation
87	Symposium I	Biomaterials and Soft Materials and their Application	P-I0573	Yuya Matsui	Kitami Institute Of Technology	Endothelial cell behavior on pulsed-anodized NiTi alloys using different electrolytes
88	Symposium I	Biomaterials and Soft Materials and their Application	P-I0609	YoungEun Choe	Dankook University	Self-assembled bioactive inorganic core/chitosan shell nanounits doped biocomposite structure for applying therapeutic tissue engineering
89	Symposium I	Biomaterials and Soft Materials and their Application	P-I0725	Suhyun Oh	Korea Institute Of Materials Science	Optimized Manufacturing Processes for Low-cost High-performance Titanium Alloys: Controlling Beta Stability with Mo and Ferrochrome Contents
90	Symposium I	Biomaterials and Soft Materials and their Application	P-I0778	Dr. Sidra Sadaf Nisar	Chosun University	Effects of RBM, SLA, and PEO coating methods on the Fatigue Characteristics of the Dental Implant
91	Symposium I	Biomaterials and Soft Materials and their Application	P-I0779	ARUN S	CHOSUN UNIVERSITY	Comparing the Mechanical, Bio-corrosion, and Bio-compatibility of the surface-modified novel Ti-29Nb-5Zr and Conventionally Manufactured Ti-6Al-4V for dental implant applications
92	Symposium I	Biomaterials and Soft Materials and their Application	P-I0870	Gyeongwoo Lee	University Of Tsukuba	Design of Immune Suppressive Chitosan Hydrogel with Bioactive Molecule Conjugation
93	Symposium I	Biomaterials and Soft Materials and their Application	P-I0886	Minjung Chae	Korea Institute Of Science And Technology	Defining roles of the cathodic phase on the binary Mg alloys for the generation behavior of reactive oxygen species
94	Symposium I	Biomaterials and Soft Materials and their Application	P-I0894	Minseong Chae	Asan Institute For Life Sciences, Asan Medical Center, College Of Medicine, University Of Ulsan	Evaluation of bone fusion capability of interface free HA PEEK cage
95	Symposium I	Biomaterials and Soft Materials and their Application	P-I0953	Hyewon Kim	Korea Institute Of Science And Technology	Magnesium coated nerve conduit as a promising biomaterial for enhancing peripheral nerve regeneration
96	Symposium I	Biomaterials and Soft Materials and their Application	P-I0961	Sunyeoung Na	Hanyang University	Nanoparticle Based Platform for Rapid and Ultrasensitive Nucleic Acid Detection
97	Symposium I	Biomaterials and Soft Materials and their Application	P-I0965	Minjoo Lee	Kwangwoon University	Ring-type, wearable blood pressure monitoring device capable of cuff-based measurement
98	Symposium I	Biomaterials and Soft Materials and their Application	P-I0966	JiHyae Choo	Hanyang University	Endotoxin-Free High Concentration M13 Bacteriophage for Biomaterial Applications
99	Symposium I	Biomaterials and Soft Materials and their Application	P-I0976	Zhuofan Chen	Sun Yat-sen University	Plasma polymerized bio-interface directs fibronectin adsorption to enhance "epithelial barrier structure" formation via FN-ITG β 1-FAK-mTOR signaling cascade for the advancement of transepithelial metal implant
100	Symposium I	Biomaterials and Soft Materials and their Application	P-I0992	Yujin Lee	Hanyang University	Potential of M13 Bacteriophage as a Bio-Supercapacitor
101	Symposium I	Biomaterials and Soft Materials and their Application	P-I0997	Hyejun Kim	Kwangwoon University	Battery-free wireless skin hydration sensor with breathable and low irritation
102	Symposium I	Biomaterials and Soft Materials and their Application	P-I1025	Ruifen Tang	Beijing University Of Chemical Technology	Customization of supramolecular hydrogels through one-step photopolymerization and its mechanism
103	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0457	Junhyub Jeon	Jeonbuk National University / KITECH	Hardness and wear properties of sintered Cu-Sn-Ni-Bi alloys
104	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0484	Soyeon Kim	Nextron Corporation	Micro probe system for in-situ x-ray scattering
105	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0534	Wei Xu	Xi'an Jiao Tong University	Superplastic and ultra-high strength Si nanoparticles with oxide shell
106	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0572	Shaochuan Zheng	XI'AN JIAOTONG University	Room-temperature sintering-like agglomeration of diamond nanoparticles via ion irradiation
107	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0625	Saurabh Tiwari	Gyeongsang National University, Jinju, South Korea	Microstructural characterization of cost-effective Inconel 738LC while reducing expensive Co compositions
108	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0650	Chohyeon Lee	Gyeongsang National University	Improved cryogenic tensile properties of additive manufacturing processed STS316L steel by the reusable powder
109	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0615	Junmo Jeong	Chungnam National University	Synthesis of Single-Crystal High-Entropy Carbide-Nanocrystals with developed {100} and {111} planes and evaluation of water splitting properties
110	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0690	Kazuma Ogushi	Osaka University	Evaluation of Phase Stability of High-Entropy Alloys by First-Principles Calculations
111	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0776	Ian Chesser	Los Alamos National Laboratory	Radiation Induced Steady State Grain Boundary Structures and Their Dynamics
112	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0832	Sangtae Woo	Pusan National University, Korea Institute Of Materials And Science	Effects of Oxidation and Crystallization on Formability of a Zr-based Metallic glass in Thermal Nanoimprint Lithography
113	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0958	Jae-Ho Lee	Korean Institute Of Materials Science(KIMS)	Microstructural Evolution and Tensile Property Enhancement of Low-cost Fe-24Mn-22Ni-12Cr Medium-entropy Alloy by Cryogenic Caliber Rolling

114	Symposium K	High-Entropy Materials and Amorphous Materials	P-K1122	Junhee Han	Korea Institute Of Industrial Technology	A feasibility study on microstructure and corrosion behaviour of Fe-based HVOF metallic glass coating layer□
115	Symposium L	Composite, Coating and Hetero-Materials	P-L0184	Hye Rin Jeong	University Of Seoul	Photocatalytic Characterization of Zn-TiO ₂ /Phosphor composite Synthesized by Hydrothermal and Coprecipitation Methods
116	Symposium L	Composite, Coating and Hetero-Materials	P-L0349	Shumpei Mori	Okayama University	Molecular dynamics study on viscous behaviour of water molecules on fatty acid-coated calcite nanosurface
117	Symposium L	Composite, Coating and Hetero-Materials	P-L0535	Xiaokang Zhong	Hefei Institute Of Physical Science, Chinese Academy Science	Functionally graded materials with high dimensional stability and near-zero thermal expansion around room temperature
118	Symposium L	Composite, Coating and Hetero-Materials	P-L0940	Donghyun Lee	Korea Institute Of Materials Science	A study on the mechanical properties and thermal neutron absorption capability of neutron absorber composites
119	Symposium L	Composite, Coating and Hetero-Materials	P-L0949	Yu Jin Im	Dong-Eui University	Effect of heat treatment on high temperature wear behavior of TiC/FC250 composites
120	Symposium L	Composite, Coating and Hetero-Materials	P-L1052	Hyo Jeong Ha	POSTECH	Synergy of strength-ductility in heterostructured alloys fabricated by laser-cladding
121	Symposium M	Nano Materials and Nano Severe Plastic Deformation	P-M0094	HyunSik Shin	Sungkyunkwan University	Enhanced Stability in Strain Sensors with Pore-Free Encapsulation and Deep Learning-Based Human Motion Recognition
122	Symposium M	Nano Materials and Nano Severe Plastic Deformation	P-M0120	Su Bin Choi	Sungkyunkwan University	Self-Healing Wearable Flexible Heaters Based on MXene/Polycaprolactone Composites and Silver Nanowire Electrodes□
123	Symposium M	Nano Materials and Nano Severe Plastic Deformation	P-M0634	Marina Takaira	Kyushu University	Formation of metastable phase in Si _{1-x} Ge _x crystals by severe plastic deformation under high pressure
124	Symposium M	Nano Materials and Nano Severe Plastic Deformation	P-M0918	Kathy Gonzalez	Instituto Tecnológico De Costa Rica	Influence of deformation degree by High-Pressure Torsion on Ti-25at%Nb alloys synthesized from elemental powders.□
125	Symposium M	Nano Materials and Nano Severe Plastic Deformation	P-M0998	Shintaro Hatanaka	Tohoku Gakuin University	Enhancement of coercivity for microfabricated Sm(Fe-Co) dot arrays with Sm seed layer
126	Symposium M	Nano Materials and Nano Severe Plastic Deformation	P-M1067	In-Chul Choi	Kumoh National Institute Of Technology	Nanomechanical behavior of ultrafine-grained structural alloys processed by high-pressure torsion technique
127	Symposium N	Computational Materials and Artificial Intelligence	P-N0043	Fuyue Wang	Ansteel Iron & Steel Research Intitute	Prediction of Flaw Detection Results and Evaluation of crucial Process Factors for Continuous Casting billet of Pipeline Steel Based on the Decision Tree Algorithm
128	Symposium N	Computational Materials and Artificial Intelligence	P-N0136	JIAQIN XU	OSAKA UNIVERSITY	Modelling of Hydrogen Diffusion Influenced Screw Dislocation Motion in BCC Iron□
129	Symposium N	Computational Materials and Artificial Intelligence	P-N0213	Aoi Nakazawa	Kyoto Institute Of Technology	Large-scale phase-field computation for predicting material microstructures from shape forming to sintering
130	Symposium N	Computational Materials and Artificial Intelligence	P-N0234	Junfeng Du	Tohoku University	Temperature dependent elastic properties of Mo-Ti BCC solid solutions by first principles calculation
131	Symposium N	Computational Materials and Artificial Intelligence	P-N0278	Sota Fujikawa	Kyoto Institute Of Technology	Investigation of a system to predict 3D microstructures from 2D cross-sectional images through machine learning and phase-field simulations
132	Symposium N	Computational Materials and Artificial Intelligence	P-N0528	JiWook Park	Korea Institute Of Industrial Technology	Cluster Formation Behavior by Monte Carlo Simulation in Al-Mg-Si Alloys
133	Symposium N	Computational Materials and Artificial Intelligence	P-N0723	SooBeen KIM	Kookmin University	Balancing Tensile Strength and Elongation in Co-reduced Martensitic Steels: A Machine Learning Approach
134	Symposium N	Computational Materials and Artificial Intelligence	P-N0733	JUNYU CHOI	Kookmin University	Advanced Precipitate and Dislocation Segmentation in STEM Images using U-net Architecture and Focused Region Training
135	Symposium N	Computational Materials and Artificial Intelligence	P-N0834	Seungbae Son	Jeonbuk National University	Prediction and mechanism explain of martensite start temperature of alloy steel via explainable artificial intelligence
136	Symposium N	Computational Materials and Artificial Intelligence	P-N0925	Seok-Jae Lee	Jeonbuk National University	XAI-aided carbon diffusivity prediction and mechanism analysis in austenite
137	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0329	Yuya Matsuzaki	Tohoku University	Deoxidation of Ti-6Al-4V alloy melt using hydrogen plasma arc melting□
138	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0604	Chaeyeon Yeom	Chungnam National University	Improvement of Lithium-Ion Battery Anode Performance Using Mg Base Alloy Electrode
139	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0731	Gian Song	Kongju National University	Influence of Annealing Conditions on the Microstructure and Magnetic Properties of Nd-Fe-B Sintered Magnets
140	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0741	Sangmin Park	Korea Institute Of Industrial Technology	Extraction behavior of rare earths elements in hydrogen treated permanent magnets