

PRICM11 Poster Presentation Schedule

Presentation Date : November 22 (Wed.), 2023

No.	Symposium Code	Symposium Topics	Submission No	Name	Affiliation	Abstract Title
1	Symposium A	Advanced Steels and Properties	P-A0042	Toya Hada	National Institute Of Technology (KOSEN)	Effect of austenite phase volume fraction on mechanical properties of hydrogen charged weld metals
2	Symposium A	Advanced Steels and Properties	P-A0070	Zhezui Zhang	Ansteel Iron & Steel Research Intitute	Microstructure control and stenghtening-toughening mechanism of 68.4GPa-% grade cold rolled steel
3	Symposium A	Advanced Steels and Properties	P-A0082	Shengrui Su	University Of Science And Technology Beijing	Effect of carbide coarsening behaviour on tensile properties of Cr alloying medium-Mn steel
4	Symposium A	Advanced Steels and Properties	P-A0084	Shuyi Quan	University Of Science And Technology Beijing	Heterogeneous ultrafine/fine-grained austenitic stainless steel: high strength and ductility
5	Symposium A	Advanced Steels and Properties	P-A0098	Hongyu San	State Key Laboratory Of Metal Material For Marine Equipment And Application	Corrosion Behaviors of U75vh , R350lht Heavy rail in Simulated atmosphere□
6	Symposium A	Advanced Steels and Properties	P-A0147	Jin-young Kim	Hanyang University	Effect of copper addition on the low-cycle fatigue behavior of ferritic heat- resistant steel at 630°C
7	Symposium A	Advanced Steels and Properties	P-A0203	Dong-Kyu Oh	Seoul National University Of Science And Technology	Effect of Microstructure on Mechanical Anisotropy of API X70 Linepipe Steels for Electrical Resistance Welding
8	Symposium A	Advanced Steels and Properties	P-A0205	Hee-Chang Shin	Seoul National University Of Science And Technology	Effect of Nb, Ti, and V additions on Hydrogen Embrittlement of Tempered Martensitic Low Alloy Steels
9	Symposium A	Advanced Steels and Properties	P-A0231	Yajun Hui	Technology Institute Of Shougang Group Co., Ltd.	Development of 800MPa Grade Hot-Rolled High Strength Ferrite Steel with Excellent Ductility and Low Yield Ratio□
10	Symposium A	Advanced Steels and Properties	P-A0295	Fujian Guo	Yangjiang Advanced Alloys Laboratory	Effect of center segregation on low temperature impact toughness of welding heat-affected zone of pipeline steel□
11	Symposium A	Advanced Steels and Properties	P-A0313	Yusuke Ochi	Hiroshima University	Improvement of Impact Properties at Low Temperatures for 0.13C Cast Steel
12	Symposium A	Advanced Steels and Properties	P-A0325	CHANHEE LEE	Changwon National University	A Study on the Improvement of Low Temperature Impact Toughness and Microstructure Changes of ERW X70 Steel Pipe□
13	Symposium A	Advanced Steels and Properties	P-A0703	Ning Cai	Shougang Group Research Institute Of Technology	Analysis of Phosphating Defects for Hot-dip Zn-Al-Mg coated Steels□
14	Symposium A	Advanced Steels and Properties	P-A1070	Toshihiro Tsuchiyama	Kyushu University	Effect of core-shell type second phase formed by interrupted-quenching and intercritical-annealing on mechanical property in a medium manganese steel
15	Symposium A	Advanced Steels and Properties	P-A1071	Weiting Li	Tsinghua University	Gradient metastability yields strong yet cryogenically tough additively manufactured steel□
16	Symposium B	Advanced Processing of Materials	P-B0056	Wei Xiudong	Chaoyang iron & Steel Co., Ltd.,of Ansteel Group Corporation	Application of Green Manufacturing Technology in ASP1700 Hot Rolling Production Line
17	Symposium B	Advanced Processing of Materials	P-B0139	Hang Gao	Ansteel Group Corporation	Influence of Cooling Parameters on Precipitation of Grain Boundary Cementite of 0.92%C Steel Wire Rods
18	Symposium B	Advanced Processing of Materials	P-B0158	Nobuki Yukawa	Nagoya University	Shape optimization of large metallic hydrogen permeable membranes and development of forming technology
19	Symposium B	Advanced Processing of Materials	P-B0167	Ayano Yamamura	Kyoto Institute Of Technology	Data assimilation integrating phase-field simulations and X-ray imaging for highly accurate prediction of columnar dendritic growth
20	Symposium B	Advanced Processing of Materials	P-B0372	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-B0569	Rikito Murakami	Tohoku University	Crystal growth of long Ru-Mo-W alloy single crystal wires by the dewetting micro-pulling-down method equipped with a continuous feeding system
22	Symposium B	Advanced Processing of Materials	P-B0923	Ji Young Kim	Seoul National University Of Science And Technology	Synthesis of high purity titanium nanopowders by high-energy ball milling of titanium hydride
23	Symposium B	Advanced Processing of Materials	P-B0926	Eui Seon Lee	Seoul National University Of Science And Technology	Macroporous structures tailored via various sublimable vehicles in freeze-casting process
24	Symposium B	Advanced Processing of Materials	P-B0970	Mun Sik Jeong	Hanyang University	Improved toughness of warm-rolled medium-Mn steels through nano-sandwich microstructure
25	Symposium B	Advanced Processing of Materials	P-B0982	Park Honggeun	Incheon National University	Comparative Study of Self-Piercing Riveting and Spot Impact Welding for Dissimilar Al/Steel materials□
26	Symposium B	Advanced Processing of Materials	P-B1170	TAEHOON PARK	Korea Institute Of Industrial Technology	Optimization process on the acoustic wave for reducing the fine particles in the industrial air conditioning system.

27	Symposium C	Structural Materials for High Temperature	P-C0109	Hye Eun Jeong	Pukyong National University	Liquation cracking temperature range of repair weld heat-affected zone for long-term aged 247LC superalloy evaluated by Varestraint test
28	Symposium C	Structural Materials for High Temperature	P-C0215	Haijing Zhou	Central Iron & Steel Research Institute	Quantitative analysis and formation mechanism of inclusions in a vacuum induction melted Ni-Co based superalloy
29	Symposium C	Structural Materials for High Temperature	P-C0317	Kippei YAMASHITA	Osaka University	Influence of cellular structure on mechanical properties of Ni-based superalloy fabricated by metal 3D printing
30	Symposium C	Structural Materials for High Temperature	P-C0334	Si Yeon Kim	Changwon National University	Characterization of microstructure of tantalum/steel interfaces prepared by explosive welding and its thermal cyclic characteristics
31	Symposium C	Structural Materials for High Temperature	P-C0587	Chong Wang	Northeastern University	Formation mechanism of special grain boundary and the effect on properties of a Fe-Ni-base superalloy under hot deformation
32	Symposium C	Structural Materials for High Temperature	P-C0653	Zhongmin Shen	Central Iron & Steel Research Institute	Numerical Simulation and Experimental Study of Electroslag Remelting Process (ESR) for Φ1100mm Ni-Based Superalloy Ingot
33	Symposium C	Structural Materials for High Temperature	P-C0855	Liu Lirong	Shenyang University Of Technology	Stress rupture properties and deformation mechanisms of a Re-low second-generation Ni-based single crystal superalloy
34	Symposium C	Structural Materials for High Temperature	P-C0920	Youn Ji Heo	Seoul National University Of Science And Technology	Synthesis and characterization of W-Ni-Cu alloys using metal oxide powders
35	Symposium C	Structural Materials for High Temperature	P-C0930	Lingchao Meng	Central Iron & Steel Research Institute	Effect of thermal compression temperature and deformation on abnormal grain growth of solution treated GH4096 alloy
36	Symposium C	Structural Materials for High Temperature	P-C0933	Ji Won Choi	Seoul National University Of Science And Technology	Fabrication of W-Cu composite powders by ball milling and hydrogen reduction of WO <sub>3</sub> -CuO powder mixtures
37	Symposium D	Light Metals and Alloys	P-D0221	Takahiro Shioyama	Kumamoto University	Effects of zinc addition on deformation behavior of magnesium single crystals
38	Symposium D	Light Metals and Alloys	P-D0222	Chiho Fujita	Kumamoto University	Fatigue fracture behavior of aluminum foils
39	Symposium D	Light Metals and Alloys	P-D0224	Takaya Fujihara	Kumamoto University	Effect of yttrium addition on bending deformation behavior of magnesium single crystal
40	Symposium D	Light Metals and Alloys	P-D0263	Yasunori Harada	University Of Hyogo	Control of Ears on Aluminum Cup with Clad Sheet
41	Symposium D	Light Metals and Alloys	P-D0461	Namhyuk Seo	Jeonbuk National University / KITECH	Effect of Mn and Mo addition and solution heat treatment on microstructure and hardness of Al-7Si-0.5Cu-0.5Mg alloy
42	Symposium D	Light Metals and Alloys	P-D0529	MiYoung Lee	Korea Institute Of Industrial Technology	Effect of Cu addition on the kinetics of cluster formation in Al-Mg-Si alloys
43	Symposium D	Light Metals and Alloys	P-D0530	YoTak Choi	Korea Institute Of Industrial Technology	Effect of Sn addition on Age-hardening behavior in Al-Mg-Si alloys
44	Symposium D	Light Metals and Alloys	P-D0553	Kenta Koshiishi	Toyama University	Effect of cold-rolling on aging behaviour of Al-Cu-Mg alloy at different aging temperatures
45	Symposium D	Light Metals and Alloys	P-D0554	Kazunobu Fujimoto	Toyama University	Microstructure observation of Al-1.0mass%Mg <sub>2</sub> Si alloy added Cu, and Ni
46	Symposium D	Light Metals and Alloys	P-D0588	DaeHan Kim	Korea Institute Of Industrial Technology	Effects of homogenization and Mn addition on the mechanical properties of Fe-containing Al-Mg-Si alloys
47	Symposium D	Light Metals and Alloys	P-D0591	Jiwoo KIM	Korea Institute Of Industrial Technology	Static recrystallization behavior of laser shock peened AZ31 Mg rolled sheet
48	Symposium D	Light Metals and Alloys	P-D0646	Seongtak Kim	Korea Institute Of Industrial Technology	Effect of Mechanical Properties by Addition of Rear Earth Elements in Al-Si-Mg Alloy using Machine-Learning Models
49	Symposium D	Light Metals and Alloys	P-D0648	Yong-Ho Kim	Korea Institute Of Industrial Technology	Evaluation of microstructure and mechanical properties of ultralight Mg-Li alloys
50	Symposium D	Light Metals and Alloys	P-D0654	Yuki Ishii	Ibaraki University	Effect of aging conditions on hydrogen release behavior in fractured Al-Cu alloy in humid and dry environments
51	Symposium D	Light Metals and Alloys	P-D0877	Young Min Kim	Korea Institute Of Materials Science	Recrystallization behaviour and stretch formability of Mg-Al-Zn-Ca-Y alloy sheet
52	Symposium D	Light Metals and Alloys	P-D0905	Sang-Hwa Lee	Jeonbuk National University	Effect of aging temperature on the precipitation behavior and mechanical properties of Al-Zn-Mg-Cu alloy
53	Symposium D	Light Metals and Alloys	P-D0943	Junho Lee	Jeonbuk National University	Effects of mechanical milling and post heat treatment on the microstructure and mechanical properties of Al-Zn-Mg-Cu-Si alloys with and without Zr manufactured by spark plasma sintering
54	Symposium D	Light Metals and Alloys	P-D1061	Hyojoo Lee	Hanbat National University	A Comprehensive Investigation into the Microstructural and Mechanical Response of Ti Alloys after Electrochemical Hydrogen Charging
55	Symposium E	Additive Manufacturing	P-E0267	Yuki Takahashi	Kyoto Institute Of Technology	A multi-phase-field framework for predicting material microstructures formed by different scanning patterns in powder bed fusion

56	Symposium E	Additive Manufacturing	P-E0367	Kishin Fukushima	Osaka University	Melting and Solidification of Stainless Steels Induced by Laser-Beam Irradiation for Powder Bed Fusion Process□
57	Symposium E	Additive Manufacturing	P-E0681	Ko Eun Chan	Chonnam National University	Study on the Microstructure, Mechanical Properties and Electrical Conductivity of Al-Si-Mg Powder by PBF process according to Si and Mg Content Change and Heat Treatment Conditions
58	Symposium E	Additive Manufacturing	P-E0701	Tingting Song	RMIT University	The Gibson-Ashby model for additively manufactured metal lattice materials: Its theoretical basis, limitations and new insights from remedies
59	Symposium E	Additive Manufacturing	P-E0743	Hyun Joong Kim	Kongju National University	Characterization of flowability in gas-atomized Inconel 625 powder for additive manufacturing applications
60	Symposium E	Additive Manufacturing	P-E0748	Yeonghwan Song	Korea Institute Of Industrial Technology	
61	Symposium E	Additive Manufacturing	P-E0774	Ji-woon Lee	Kongju National University	Geometric characteristics in polycaprolactone (PCL) scaffolds produced by materials extrusion-based additive manufacturing
62	Symposium E	Additive Manufacturing	P-E0783	Yangil Jung	Korea Atomic Energy Research Institute	Wire-fed Additive Manufacturing of Cu and Cu-based Alloys for Application in the Spent Nuclear Fuel Canister
63	Symposium E	Additive Manufacturing	P-E0884	YoonSeong JOO	Korea Institute Of Industrial Technology	Carbon Nitride (C <sub>3</sub> N <sub>4</sub> ) as a Filler of Epoxy-Acrylate based Resin for the Digital Light Processing (DLP) 3D Printing Process
64	Symposium E	Additive Manufacturing	P-E0889	YoonSeong JOO	Korea Institute Of Industrial Technology	Lignin Reinforced Photo-curable Resin for Digital Light Processing
65	Symposium E	Additive Manufacturing	P-E0890	Hee Sung Han	Korea Institute Of Industrial Technology	The New Approach for Developing ZrO <sub>2</sub> Feedstock for Materials Extrusion 3D Printing
66	Symposium E	Additive Manufacturing	P-E0922	Kwangsue Choi	Korea Institute Of Industrial Technology	Directed Energy Deposition of Sn-based alloy on steel substrate
67	Symposium E	Additive Manufacturing	P-E0951	Seungmin Jeon	Korea Institute Of Materials Science	Mechanical responses of 304L stainless steel additively manufactured by laser powder bed fusion at 4.2KD
68	Symposium E	Additive Manufacturing	P-E0994	Nuri Sim	Korea Institute Of Industrial Technology	Microstructure and magnetic properties of Fe-Ni alloy fabricated by Laser powder bed fusion process□
69	Symposium E	Additive Manufacturing	P-E1116	Haeum Park	Korea Institute Of Materials Science (KIMS)	Cryogenic tensile behavior of carbon-doped CoCrFeMnNi high-entropy alloys additively manufactured by laser powder bed fusion
70	Symposium E	Additive Manufacturing	P-E1118	Yeon Woo Kim	Korea Institute Of Materials Science	Effect of Substrate Pre-heating on Microstructure and Magnetic Properties of Nd-Fe-B Permanent Magnet Manufactured by L-PBF
71	Symposium E	Additive Manufacturing	P-E1154	Elmira Sharabian	RMIT University	Numerical Simulation and Analytical Modeling of Temperature and Morphology of Meltpool in Electron Beam Powder Bed Fusion of Copper Components□
72	Symposium F	Thin Films and Surface Engineering	P-F0328	Hiroki Sato	Tohoku University	Protective coating of precious metal films on high-melting-temperature metals by chemical vapor deposition
73	Symposium F	Thin Films and Surface Engineering	P-F0385	Masataka Ijiri	Tokyo Metropolitan University	Environment-Friendly Surface Modification Technology to Strengthen the Steel Surface
74	Symposium F	Thin Films and Surface Engineering	P-F0471	Shio Okubo	Osaka University	Improvement of Oxidation Resistance in Reduction Sinter-bonding Focusing on Morphology Control of Cuprous Oxide
75	Symposium F	Thin Films and Surface Engineering	P-F0616	Hirofuma Kimura	Suzuki Shokan Co., Ltd.	Enhanced Accuracy in Hydrogen Sensing by Oxygen Selective Polymer Membrane Support
76	Symposium F	Thin Films and Surface Engineering	P-F0640	Soga Nakatsuka	Tohokugakuin University	Refinement of orientation of Sm(Fe, Co)-B thin films by introduction of Sm seed layer
77	Symposium F	Thin Films and Surface Engineering	P-F0665	Na Young Kang	Hongik University	Comparison of Fe-Ni Alloy Films Fabricated by DC, Two-Step and Pulse Electrodeposition
78	Symposium F	Thin Films and Surface Engineering	P-F0820	Wanyu Ding	Dalian Jiaotong University	Preliminarily exploring the electrical insulation performance of APPJ SiO <sub>2</sub> coating on 304 stainless steel pipes
79	Symposium F	Thin Films and Surface Engineering	P-F0821	Wanyu Ding	Dalian Jiaotong University	Investigate the heat conduction between film and substrate during sputtering process by multi-layer structure NiCr/NiSi film thermocouples
80	Symposium F	Thin Films and Surface Engineering	P-F0979	Yoonje Sung	Jeonbuk National University	Microstructure characterization of Zn-15Al-6Mg-0.2Si alloy galvanized coating
81	Symposium F	Thin Films and Surface Engineering	P-F1056	Dmitry Krasnikov	Skolkovo Institute Of Science Technology	Regeneration of single-walled carbon nanotube membranes for optical applications in the extreme ultraviolet range
82	Symposium F	Thin Films and Surface Engineering	P-F1165	Joonbong Lee	Sejong University	Surface and Interface Engineering of Oxide Hard Coating for High-performance Cutting Tool
83	Symposium G	Materials for Energy Storage and Generation	P-G0121	Duc Khanh Tran	Sungkyunkwan University	Highly Breathable, Water-Resistant, and Self-Healing Fibrous Triboelectric Nanogenerators for Enhanced Performance in Wearable Electronics
84	Symposium G	Materials for Energy Storage and Generation	P-G0129	Hyun-seung Kim	Korea Electronics Technology Institute	Double-layer structural control with non-sacrificial perfluorinated-anion additives at initial formation step for improving the lithium storage kinetics of lithium-ion batteries

85	Symposium G	Materials for Energy Storage and Generation	P-G0152	Jihun Jeon	Kyoto University	Competition between charge collection and recombination dynamics in polymer/polymer solar cells□
86	Symposium G	Materials for Energy Storage and Generation	P-G0311	Tatsuya Ueda	Kyoto University	Effect of lattice defects on hydrogenation behavior in HfNbTiZr medium entropy alloy
87	Symposium G	Materials for Energy Storage and Generation	P-G0314	MENGKE NIU	Hokkaido University	Helium and hydrogen effect of cavity formation and irradiation hardening on CrFeNiMn high entropy alloy and 316 stainless steel
88	Symposium G	Materials for Energy Storage and Generation	P-G0635	Sanghoon Noh	Pukyong National University	Fabrication and Characteristic of Oxide Dispersion Strengthened Ferritic Steels Containing Gadolinium Oxide for Neutron Absorbing Structural Components
89	Symposium G	Materials for Energy Storage and Generation	P-G0850	Junrui Zhang	Lishui University	Cu-promoted non-noble catalysts for the efficient hydrolysis of ammonia borane
90	Symposium G	Materials for Energy Storage and Generation	P-G0851	Junrui Zhang	Lishui University	Cu-promoted non-noble catalysts for the efficient hydrolysis of ammonia borane□
91	Symposium G	Materials for Energy Storage and Generation	P-G0938	Bing Zhou	Ningxia University	Betavoltaic-powered electrochemical cells based on TiO <sub>2</sub> Nanotubes modified with ZrO <sub>2</sub> and SWCNTs□
92	Symposium G	Materials for Energy Storage and Generation	P-G0944	SEON YOUNG YANG	Korea Institute Of Materials Science	Development of hot rolling on La-Fe-Co-Si magneto-caloric composites
93	Symposium G	Materials for Energy Storage and Generation	P-G0950	Min-Jik Kim	Korea Institute Of Materials Science	Forming Technology of Anisotropic Gadolinium wire and Componentization of Active Magnetic Regenerator
94	Symposium G	Materials for Energy Storage and Generation	P-G0963	Xiaoyang Zhang	Dalian Jiaotong University	Fe <sub>1-x</sub> S modulated by sulfur sources for high-performance anodes in Li-ion batteries
95	Symposium G	Materials for Energy Storage and Generation	P-G1045	Hyeong-Yeon Lee	KAERI (Korea Atomic Energy Research Institute)	Elevated temperature design of Type 316L stainless steel components and piping in a thermal energy storage system
96	Symposium G	Materials for Energy Storage and Generation	P-G1046	Hyeong-Yeon Lee	KAERI (Korea Atomic Energy Research Institute)	Elevated temperature design of Type 316L stainless steel components and piping in a thermal energy storage system
97	Symposium G	Materials for Energy Storage and Generation	P-G1128	Seoyeon Park	Korea University	Multifunctional Composite Platforms Based on Binder-free Graphene Oxide Dough
98	Symposium H	Electronic and Magnetic Materials	P-H0103	Chunghee Nam	Hannam University	Prediction of Supercooled Liquid Region of soft magnetic bulk metallic glasses by Deep Learning□
99	Symposium H	Electronic and Magnetic Materials	P-H0284	Yudai Kodama	Tohoku University	Static and High-frequency Magnetic Properties of Toroidal Cores Composed of Electrolytic Iron Particles with Different Shapes
100	Symposium H	Electronic and Magnetic Materials	P-H0416	Vitalii Galkin	Korea Institute Of Materials Science	Effect of the parameters in heat treatment on the structural and magnetic properties of Nd-Fe-B particles recycled from magnet sludge by reduction-diffusion process.□
101	Symposium H	Electronic and Magnetic Materials	P-H0586	JONGTAE KIM	DGIST	Copper/graphite metal matrix composite for heat management application
102	Symposium H	Electronic and Magnetic Materials	P-H0620	Masahira Onoue	Kagoshima University	Quasi first-order magnetic transition of Mn <sub>0.9</sub> Fe <sub>0.1</sub> Sb <sub>0.9</sub> Sn <sub>0.1</sub> probed using Mössbauer spectroscopy
103	Symposium H	Electronic and Magnetic Materials	P-H0641	Yuto Miura	Tohoku Gakuin University	Effect of additive elements on the crystal structure and magnetic properties for L1 <sub>0</sub> Mn-Ga thin films
104	Symposium H	Electronic and Magnetic Materials	P-H0876	Yan Dongchao	Advanced Technology & Materials Co.,Ltd.	Effect of High Efficiency Heat Treatment System on Magnetic Properties of Co27 Alloy□
105	Symposium H	Electronic and Magnetic Materials	P-H0897	Sun Hao	University Of Science And Technology Of China	A study on the magnetic properties and magnetocaloric effect of Tm <sub>1-x</sub> Er <sub>x</sub> CuAl (x=0, 0.2, 0.4, 0.5, 0.6, 0.8, 1) polycrystalline compounds
106	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0287	Luwei Xue	Kyushu University	Evaluation of irradiation induced hardness and microstructure of Zry-2 under applied stress□
107	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0700	Seokyeon Shin	Advanced Institute Of Convergence Technology	Material Characterization of SiON films Deposited by PECVD for Thin Film Encapsulation of OLEDs
108	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0826	Hyunmyung Kim	FAINDUS Co.	Correlation study of nonlinear ultrasonic parameters to steels weld microstructure
109	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J0878	Wonhui Jo	Gyeongsang National University	Microstructural effect on the resistance to fatigue crack growth of high-entropy alloys
110	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J1048	Wu Gong	Japan Atomic Energy Agency	In-situ studies on microstructures and mechanical properties in metallic materials using pulsed neutron diffraction at TAKUMI
111	Symposium J	Materials Characterization and in situ/3D/4D Analysis	P-J1068	In-Chul Choi	Kumoh National Institute Of Technology	Characterizing interfacial mechanical properties of post-heat treated Ti/Al clad materials
112	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0052	Jiyeong Lee	Pohang University Of Science And Technology	The effect of initial microstructure on the cryogenic tensile behavior of a ferrous medium-entropy alloy
113	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0306	Shunsuke Kawasaki	National Institute Of Technology, Kagoshima College	Effect of Sintering Temperature on Microstructure□f Zr-Cu System Glassy Alloy□

114	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0379	Siyuan Zha	Waseda University	Local structural changes during glass formation in $Zr_{80}Pt_{20}$ alloys
115	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0396	Kohei Shiotani	Kanazawa University	Molecular dynamics study on the effects of multiple elements on grain boundary migration in high-entropy alloys
116	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0399	Kudo Shinya	Waseda University	Local atomic structures and quasicrystal formation in $Zr_{70}Cu_{29}Pt_1$ metallic glasses
117	Symposium K	High-Entropy Materials and Amorphous Materials	P-K0502	Ki Buem Kim	Sejong Univercity	Crystallization Kinetics and Thermoplastic Forming Condition of TiCu-based bulk metallic glass□
118	Symposium K	High-Entropy Materials and Amorphous Materials	P-K1173	Hyeok Jae Choi	Kongju National University	Enhanced mechanical properties of Nb-Ta-V-Ti high entropy alloy with in-situ TiC particles
119	Symposium K	High-Entropy Materials and Amorphous Materials	P-K1176	Jin Kyu Lee	Kongju National University	Novel Zr-Ti-Ni-Cu metallic glass brazing fillers for joining Ti-6Al-4V alloy□
120	Symposium L	Composite, Coating and Hetero-Materials	P-L0828	Wenjie Hou	Baowu Carbon Technology Co., Ltd	Study on corrosion resistance of carbon-based anti-corrosion coating in hot molten salt□
121	Symposium L	Composite, Coating and Hetero-Materials	P-L0843	Taeho Lee	Korea Institute Of Material Science	Bonding Properties of Metal Matrix Composites through Brazing: Optimizing Parameters and Filler Material Composition
122	Symposium L	Composite, Coating and Hetero-Materials	P-L0864	MINWOO KANG	Korea Institute Of Materials Science (KIMS)	A study on the improvement of neutron absorption and thermal conductivity of aluminum matrix composites□
123	Symposium L	Composite, Coating and Hetero-Materials	P-L0898	Minsu Kim	Korea Institute of Materials science	Effect of improving mechanical properties according to the content of in-situ gamma prime phase in Ni-TiC-Ti <sub>2</sub> AlC MAX-phase MMC
124	Symposium L	Composite, Coating and Hetero-Materials	P-L1069	Cai Jianming	Xi'an Jiaotong University	Design and Toughening of High-performance Alloy Coatings and Heat-resistant Aluminum Alloys based on Theoretical Calculations
125	Symposium N	Computational Materials and Artificial Intelligence	P-N0144	Eulyong Ha	Korea Institute Of Industrial Technology	A study on estimation of changes in mechanical material properties according to changes in pore shape using Representative Volume Element method
126	Symposium N	Computational Materials and Artificial Intelligence	P-N0260	Dongwoon Han	Korea Institute Of Industrial Technology	A deep learning based surrogate model in design optimization of aluminium frames for large-scale photovoltaic module□
127	Symposium N	Computational Materials and Artificial Intelligence	P-N0282	Shinmei Hayase	Kyoto Institute Of Technology	Systematic evaluation of segregation band formation using the MPF-LB simulation of semi-solid simple shear deformation
128	Symposium N	Computational Materials and Artificial Intelligence	P-N0448	Koki Takahashi	Waseda University	Many-body effects on glass formation in molecular dynamics simulation□
129	Symposium N	Computational Materials and Artificial Intelligence	P-N0688	Shusuke Osuga	The University Of Tokyo	Molecular dynamics simulation of solidification microstructure formation under large temperature gradient□
130	Symposium N	Computational Materials and Artificial Intelligence	P-N0689	Kota Noda	The University Of Tokyo	High-precision prediction of physical properties of molecular dynamic simulation using graph neural networks
131	Symposium N	Computational Materials and Artificial Intelligence	P-N0928	Seunghyeok Choi	Jeonbuk National University	Exploring austenite grain growth mechanisms in alloy steel during reheating using XAI
132	Symposium N	Computational Materials and Artificial Intelligence	P-N0935	Seonghyun Park	Jeonbuk National University	Prediction of cementite precipitation in austenite of low-alloy steels using XAI
133	Symposium N	Computational Materials and Artificial Intelligence	P-N0948	Woocheol Shin	Jeonbuk National University	Tempered martensite hardness prediction and feature analysis using XAI in low-alloy steels
134	Symposium N	Computational Materials and Artificial Intelligence	P-N1008	Zhangcan Yang	Huazhong University Of Science And Technology	Enhancement of the growth of a helium bubble through the strain field generated by itself
135	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0017	Quan Wang	Energy And Environment Management Center Of Angang Steel Co., Ltd.	Upgrade of instrument control system of Lean Oil Sealed Gasholder
136	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0481	YuBo Wang	Kunming University Of Science And Technology	Preparation of High-Purity Nickel by Floating Zone Refining under Hydrogen Atmosphere
137	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0504	Ki Buem Kim	Sejong Univercity	Color Transition Behavior of Cu-5Al-5Zn-1Sn Alloy with Low Stacking Fault Energy by Tailoring Grain Boundary□
138	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0589	KyuSeok Lim	Chungnam National University	Electrorefining of Ti in LiCl-KCl-NaCl-TiCl <sub>2</sub> molten salt with oxygen concentration in CuTi feedstock□
139	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0594	Wooseok Choi	Chungnam National University	Inert anode-based eco-friendly electroreduction of magnetite
140	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0606	WanBae Kim	ChungNam National University	Investigation of Inert Anode Materials for Carbon-free electroreduction of CaO□
141	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0612	Seungho Lee	Chungnam National University	Improvement of Anode Charge/Discharge Performance through Ag and Li Alloying
142	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0624	Donghee Lee	Chungnam National University	Development of eco-friendly electroreduction method for producing Nd-Fe alloy from Nd <sub>2</sub> O <sub>3</sub> □

143	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0772	Hyeong-Jun Jeoung	Seoul National University	Molten salt electrolysis of secondary resources and vacuum distillation for producing high-purity magnesium metal
144	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O0957	Cheol Kang	Korea Battery Industry Association (KBIA)	Researching the feasibility of the binder remove and solvent recycle process through the use of green solvents for direct recycling of used batteries
145	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O1019	Hyunseok Lee	Korea Battery Industry Association	Optimization of the discharge process of spent Li-ion batteries from electric vehicles for direct recycling
146	Symposium O	Materials for Sustainability (Green Steel, Recycling, and Corrosion)	P-O1020	Min-Ho Kim	Korea Battery Industry Association	Causes of Capacity Fade in Lithium-Ion Batteries and Research on Direct Recycling