

PRESM2022 :: Regular POSTER 1,2,3 & Special session _ 0623_2nd Notice

Abstract No.	Topic	PT TYPE	Sort	PT Date PT Time 11:00-12:00 Affixation time 09:00-11:00	Title	Presenter First Name	Presenter Last Name	Presenter Affiliation	Corresponding
PRESM2022-A009	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Load-balanced Bin Packing System with Deep Reinforcement Learning	Jeongwon	Pyo	Sungkyunkwan University	Kwang-Hee Lee (Korea Institute of Industrial Technology)
PRESM2022-A021	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Cutting Mechanism, Machined Surface Integrity and Multi-objective Optimisation Following Machining of Glass Fibre-Reinforced Honeycomb Composites	Chunliang	Kuo	National Taiwan University of Science & Technology	Chunliang Kuo (National Taiwan University of Science & Technology)
PRESM2022-A039	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Precision Cold Forging Punch Manufacturing Technology Research Using Metal Additive Manufacturing	Myoung Pyo	Hong	Korea Institute of Industrial Technology	Myoung Pyo Hong (Korea Institute of Industrial Technology)
PRESM2022-A059	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Grinding Motion Model for a Spherical Polishing Plate Used in Glass Lens Polishing Process	Hsin-Yu	Chiang	National Tsing Hua University	Hsin-Yu Chiang (National Tsing Hua University)
PRESM2022-A060	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Modified Material Removal Prediction Model for Hard Polishing Process of Silicon Carbide Wafer based on Support Vector Machine	Yu-Hsiang	Lo	National Tsing Hua University	Yu-Hsiang Lo (National Tsing Hua University)
PRESM2022-A062	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Automation Strategy for Magnetic Field-Assisted Single Point Incremental Forming	David	Skelton	University of Florida	Hitomi Yamaguchi (University of Florida)
PRESM2022-A067	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Experimental Investigation and Failure Analysis of Thermoplastic PLA Self-healing Composites under Low-velocity Impact	Venkata Chalapati	Kadapa	Changwon National University	Jung-il Song (Changwon National University)
PRESM2022-A072	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Effective Optimization based on Equilibrium Optimizer for Dynamic Cutting Force Coefficients of End-milling Process	Minh-Quang	Tran	National Taiwan University of Science & Technology	Minh-Quang Tran(National Taiwan University of Science & Technology)
PRESM2022-A107	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Anomaly Detection Framework for Univariate Periodic Time Series with Labeled Data	Kio	Yun	Korea University	Jun-Geol Baek (Korea University)
PRESM2022-A163	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Studying Anisotropic Material Behavior of Single Crystal Yttria Stabilized Zirconia during Ultra-precision Machining	Dae Nyoung	Kim	University of Wisconsin-Madison	Sangkee Min (University of Wisconsin-Madison)
PRESM2022-A165	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Investigation on Residual Stress and Subsurface Damage on 2-Step Machining of Single Crystal Sapphire	Aditya	Nagaraj	University of Wisconsin-Madison	Sangkee Min (University of Wisconsin-Madison)
PRESM2022-A169	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Conformal Additive Manufacturing of Binder-Coated Zirconia Using Material Extrusion	Bipendra	Basnet	The University of Akron	Jae-Won Choi (The University of Akron)
PRESM2022-A171	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Additive Manufacturing of Lithium Based Solid Polymer Electrolytes Using Direct Print Photopolymerization	Bharath Reddy	A. R.	The University of Akron	Jae-Won Choi (The University of Akron)
PRESM2022-A182	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	A Real-time Measurement of the Bending Deformation in V-bending Using Machine Vision	Eunbeen	Mok	Seoul National University of Science & Technology	Changwhan Lee (Seoul National University of Science & Technology)
PRESM2022-A188	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Point Cloud Based Representations Learning for Wafer Pattern Recognition in Semiconductor Fabrication Process	Seunghwan	Song	Korea University	Jun-Geol Baek (Korea University)
PRESM2022-A200	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Numerical Study on Forming Process of Independent Suspension Devices Component Part for Flash Reduction.	Seung Jae	Lee	Korea Institute of Industrial Technology	Jiwoo Park (Korea Institute of Industrial Technology)
PRESM2022-A207	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Ground Subsidence Susceptibility Map Generation Using Machine Learning	Jun Hwan	Park	Korea University	Duhwan Mun (Korea University)
PRESM2022-A213	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Nip Pressure Distribution Control for Large-area Roll-to-Roll Nanoimprint Lithography Process	Truong Sinh	Nguyen	Sungkyunkwan University	Kyunghoon Kim (Sungkyunkwan University)
PRESM2022-A243	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Conductive Graphene-Carbon Nanotube Composites into Silicone for 3D Printing	Zheng-Lin	Chen	National Kaohsiung University of Science & Technology	Chin-Tai Chen (National Kaohsiung University of Science & Technology)
PRESM2022-A249	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Multi-Encoder Memory Networks for Multivariate Time Series Anomaly Detection	Yujin	Lee	Korea University	Jun-Geol Baek (Korea University)
PRESM2022-A254	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Hierarchical Decomposition and Period-based Segmentation for Time Series Anomaly Detection	Ye Seul	Lee	Korea University	Jun-Geol Baek (Korea University)
PRESM2022-A276	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Investigation of Optimization Method of Layer Thickness and Stand-off Distance Using DED Process	Kwang Kyu	Lee	Chosun University	Dong Gyu Ahn (Chosun University)
PRESM2022-A302	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	A Feature Selection Method Using FFT Analysis to Improve Performance of the Cutting Force Estimation Models	Hyein	Kim	Korea Institute of Industrial Technology	Sohyun Nam (Korea Institute of Industrial Technology)
PRESM2022-A314	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Thermal Analysis of Directed Energy Deposition Process by Finite Volume Method	Santhosh	Senguttuvan	Sungkyunkwan University	Sang Won Lee (Sungkyunkwan University)
PRESM2022-A320	1. Manufacturing Processes	Online(MP4)		Online : 20-22 July, Whole 3days	Effects of the Spray Parameters in Morphological Changes of Cellulose Nanofiber/Carbon Nanotube Composite Coatings and Its Influence in Electroconductive Properties	Jeyoung	Jung	Korea Institute of Industrial Technology	Chang Kee Lee (Korea Institute of Industrial Technology)
PRESM2022-A008	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	3D Printing Process Parameters Optimization of LPBF Using Porosity Data Set Obtained from Archimedes Method and Micrographic Observation	Yeoul	Song	Korea Institute of Machinery & Materials	Yeoul Song (Korea Institute of Machinery & Materials)
PRESM2022-A017	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Effect of Cutting Properties by Tool Orientation in End-mill Process of Ti-alloy	Mi-Ru	Kim	Korea Institute of Industrial Technology	Mi-Ru Kim (Korea Institute of Industrial Technology)
PRESM2022-A022	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Effect of Electrode Materials on Material Removal in Cu CMP Using Electrolytically-Ionized Slurry	Hyunseop	Lee	Dong A University	Hyunseop Lee (Dong A University)
PRESM2022-A026	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A Novel Phase Extracting Method for Thickness Profiling of a Transparent Optical Flat	Jurim	Jeon	Pusan National University	Yangjin Kim (Pusan National University)
PRESM2022-A038	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Improvement of Cooling Efficiency of Die Casting Molds Using Metal Additive Manufacturing Technology Research	Myoung Pyo	Hong	Korea Institute of Industrial Technology	Myoung Pyo Hong (Korea Institute of Industrial Technology)
PRESM2022-A040	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Prediction of the Machining Accuracy Employing a Position Control with a Flexible Lapping Wheel - Consideration of Wheel Rotation R11:	Sun-Kyu	Lee	Gwangju Institute of Science & Technology	Sun-Kyu Lee (Gwangju Institute of Science & Technology)
PRESM2022-A043	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Study on Corrosive Properties of Copper Alloy Powder Layered on Nickel-aluminum Bronze by Using Directed Energy Deposition	Changliang	Yao	Korea Maritime & Ocean University	Dosik Shim (Korea Maritime & Ocean University)
PRESM2022-A057	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Characteristic Analysis of Vanadium Carbide Coatings on a Ti-6Al-4V Substrate	Seongwon	Yoo	Changwon National University	Choonman Lee (Changwon National University)
PRESM2022-A065	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Deposition Characteristics and Compression Behaviors of Various Aluminum Alloys Fabricated Using Directed Energy Deposition	Hwa Jeong	Kim	Korea Maritime & Ocean University	Do Sik Shim (Korea Maritime & Ocean University)
PRESM2022-A066	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Study on Wear Behaviors of High-Manganese Steels Fabricated Using Directed Energy Deposition	Han-byeol	Park	Korea Maritime & Ocean University	Do-Sik Shim (Korea Maritime & Ocean University)

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PRESM2022-A069	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Comparison of Acoustic Emission Tendency for in Situ Monitoring in Selective Laser Melting Manufacturing with Micro-structure	Sunghyun	Sung	Korea Institute of Industrial Technology, Hanyang University	Ohyung Kwon (Korea Institute of Industrial Technology)
PRESM2022-A077	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Study on Selective Laser Melting Process for High Build Rate with Commercially Pure Titanium	Mintae	Kim	Korea Institute of Industrial Technology	Hyung Giun Kim (Korea Institute of Industrial Technology)
PRESM2022-A087	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A Study on the Selection of Optimal Conditions Using CBN Tools in Quartz Machining	Seong-jun	Choi	Changwon National University	Choon-man Lee (Changwon National University)
PRESM2022-A089	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Simulation and Experimental Analysis of Capability of Conformal Cooling Channel Mold Manufactured by Metal 3D Printing Technology	Yu Jin	Park	Korea Institute of Industrial Technology	Jong Wan Ko (Korea Institute of Industrial Technology)
PRESM2022-A090	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A Basic Research on the Ti-Nb-Ni-C-V-Al High Entropy Alloys Manufacturing Using Direct Energy Deposition Process	Ho-In	Jeong	Changwon National University	Choon-Man Lee (Changwon National University)
PRESM2022-A105	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	New Fabrication Process of Carbon Short Fiber / Metal Composites and Their Properties	Yongbum	Choi	Hiroshima University	Yongbum Choi (Hiroshima University)
PRESM2022-A111	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A Study on the Forming Limit Diagram of 22MnB5 Sheet Using the Fracture Energy Theory	Dae Young	Ahn	Pusan National University	Min Sik Lee (Pusan National University)
PRESM2022-A113	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A Study on the Analytical Approach to Realize Mechanical Properties of HAZ in Hot Stamped TWB Specimens according to Coating Layer Removal	Hyeon Jong	Jeon	Pusan National University	Min Sik Lee (Pusan National University)
PRESM2022-A115	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Comparison of Al7075 formability using experimental and theoretical according to solution heat temperature	Won Jin	Lee	Pusan National University	Min Sik Lee (Pusan National University)
PRESM2022-A126	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Processing Optimization of Inconel 738 for Turbine-blade Application by Selective Laser Melting	Ho Yoon	Kim	SFS. Co., Ltd.	Sungwoo Bae (SFS. Co., Ltd.)
PRESM2022-A130	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Characterization of g-C3N4 as a Filler in the Photocuring 3D Printing Process	Yu Jin	Park	Korea Institute of Industrial Technology	Jong Wan Ko (Korea Institute of Industrial Technology)
PRESM2022-A133	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Enhancement of the Mechanical Properties of Additively Manufactured Bio-based PC via Warm Isostatic Press (WIP)	Seong Je	Park	Korea Institute of Industrial Technology	Il Hyuk Ahn (Tongmyong University)
PRESM2022-A143	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Effect of Infiltration with Warm Isostatic Press (WIP) on Mechanical Properties and Porosity in Binder Jetting Process	Seong Jun	Park	Korea Institute of Industrial Technology	Hyuk Ahn II (Tongmyong University)
PRESM2022-A144	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Effect of the Temperature Profile in Warm Isostatic Press (WIP) for Mechanical Properties of a Part from FDM Process	Dohyun	Kim	Korea Institute of Industrial Technology	Ilhyuk Ahn (Tongmyong University)
PRESM2022-A149	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Experimental and Analytical Force Model of Bidirectional CFRP Drilling Operation	Anand Prakash	Jaiswal	UNIST	Hyung Wook Park (UNIST)
PRESM2022-A168	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Effect of Boron Content on Microstructure and Mechanical Properties of DED Deposited SUS316L Alloy	Yoon Sun	Lee	Korea Institute of Industrial Technology	Dong Yong Park (Korea Institute of Industrial Technology)
PRESM2022-A173	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Planarization Profile Modeling Using Pad Bulk Deformation and Real Contact Area Analysis of Macro-Scale Device Pattern	Seonho	Jeong	Pusan National University	Haedo Jeong (Pusan National University)
PRESM2022-A192	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Up and Down Mill Tool-path Optimization for End-mill Cutting of Unidirectional CFRP	Dong Gyu	Kim	Daegu Mechatronics & Materials Institute	Seung Han Yang (Kyungpook National University)
PRESM2022-A198	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Lubricant Free Thermoforming Using Electrochemical Polished Molds	Seong Ung	Kwak	Chosun University	Jeong Woo Park (Chosun University)
PRESM2022-A199	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Welding Technology Research for Manufacturing Integrated	Jaewoong	Kim	Korea Institute of Industrial Technology	Jaewoong Kim (Korea Institute of Industrial Technology)
PRESM2022-A221	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Investigation of Thermal Transfer during Directed Energy Deposition on Lightweight Materials with Inner Lattice Structures	Kook Hwa	Choi	Korea Maritime & Ocean University	Do Sik Shim (Korea Maritime & Ocean University)
PRESM2022-A227	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Effects on Product Shape of Melt Pool by Energy Density in the Additive Manufacturing Process of Polymer Materials	Eunjung	Shim	Korea Institute of Industrial Technology	Gunhee Kim (Korea Institute of Industrial Technology)
PRESM2022-A229	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	On-Machine Measurement and Compensation Techniques for Improving Machining Accuracy of Large-size Aerospace Parts	Hoon Hee	Lee	Korea Institute of Industrial Technology	Hoon Hee Lee (Korea Institute of Industrial Technology)
PRESM2022-A240	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Fabrication of Nanopatterned Cylindrical Mold using Laser Interference Lithography	Jun Han	Park	Pusan National University	Bo Sung Shin (Pusan National University)
PRESM2022-A247	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Porosity Formation of Laser Welded Cast Aluminum Subjected Coaxially Arranged Dual-beam Laser Oscillation Welding	Hyeonhee	Kim	Korea Institute of Industrial Technology	Minjung Kang (Korea Institute of Industrial Technology)
PRESM2022-A256	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A Study on Post-Processing for Additively Manufactured Inconel Structures based on Wire Arc Additive Manufacturing(WAAM)	Hwi Jun	Son	Changwon National University	Young Tae Cho (Changwon National University)
PRESM2022-A265	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Prediction of Surface Roughness in Machining of WC with the PCD Micro Grinding Tool Using ANN	Sangjin	Maeng	Hongik University	Sangjin Maeng (Hongik University)
PRESM2022-A266	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Melting and Transfer Behaviors of Ferrous and Non-ferrous Filler Wire Irradiated with Laser Heat Source	Joonghyeon	Shin	Korea Institute of Industrial Technology	Minjung Kang (Korea Institute of Industrial Technology)
PRESM2022-A272	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Investigation on Microstructure and Mechanical Properties of AZ31B Magnesium Alloy Sheets Deformed in Different Hot Deformation Conditions	Mohanraj	Murugesan	Seoul National University of Science & Technology	Chang-Wan Lee (Seoul National University of Science & Technology)
PRESM2022-A283	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Effect of GO Reinforcement on the Microstructural Changes Related to Mechanical Properties of Friction Stir Processed Al Matrix Composites	Soumyabrata	Basak	University of Ulsan	Sung-Tae Hong (University of Ulsan)
PRESM2022-A286	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Electrically Assisted Pressure Joining of Copper C11000 Alloys	Tu-Anh	Bui-Thi	University of Ulsan	Sung-Tae Hong (University of Ulsan)
PRESM2022-A287	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Data Management for Digital Transformation of Machining Process	Dong Yoon	Lee	Korea Institute of Industrial Technology	Dong Yoon Lee (Korea Institute of Industrial Technology)
PRESM2022-A288	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Simultaneous Solid State Joining and Forging of Dissimilar Steels	Thanh Thuong	Do	University of Ulsan	Sung-Tae Hong (University of Ulsan)
PRESM2022-A290	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Micro Machining of 3D Printed Steel Using PCD Pencil Grinding Tools	Chan Young	Yang	Soongsil University	Bo Hyun Kim (Soongsil University)
PRESM2022-A294	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Development of Automatic Liquid Filling Machine in Chemical Manufacturing Processes	Junsik	Lee	Changshin University	Junsik Lee (Changshin University)

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PRESM2022-A298	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Effect of Cutting Depth on Surface Crack in Micro Machining of SiC	Ju Hyeon	Lee	Soongsil University	Bo Hyun Kim (Soongsil University)
PRESM2022-A303	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Tool Life Prediction Using Accumulated Power Consumption under Varying Cutting Conditions	Hae-Sung	Yoon	Korea Aerospace University	Hae-Sung Yoon (Korea Aerospace University)
PRESM2022-A308	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Coating Optimization of High Viscosity and Low Organic Binder Content Alumina Slurry for 3D Printing	Yu Jin	Park	Korea Institute of Industrial Technology	Jong Wan Ko (Korea Institute of Industrial Technology)
PRESM2022-A310	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Development of Lignin as a Filler for Digital Light Processing 3D Printing	Yu Jin	Park	Korea Institute of Industrial Technology	Jong Wan Ko (Korea Institute of Industrial Technology)
PRESM2022-A311	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A Study on Filling Rate Prediction for Injection Molding Process of Composite Material with Artificial Intelligence	Bon Sang	Koo	Sungkyunkwan University	Sang Won Lee (Sungkyunkwan University)
PRESM2022-A319	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Laser-based Additive Manufacturing of High-density Non-weldable Ni-based Superalloy	Seungmuk	Ji	SFS. Co., Ltd.	Sungwoo Bae (SFS. Co., Ltd.)
PRESM2022-A345	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Fabrication of Additive Manufacturable 3-dimensional Tactile Sensor	In Hwan	Lee	Chungbuk National University	In Hwan Lee (Chungbuk National University)
PRESM2022-A346	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Long Term Annealing Effect on the Microstructure and Mechanical Properties of Ferrite to Austenite Stainless Steel Dissimilar Additive Manufacturing	Mahdi	Aghaahmadi	Hanbat National University	Jeoung Han Kim (Hanbat National University)
PRESM2022-A350	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Removal Modeling of Copper Considered with Temperature Function in CMP	Yeongil	Shin	Pusan National University	Haedo Jeong (Pusan National University)
PRESM2022-A355	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A 3D Bio-printed Breast Cancer Model for Personalized Medicine	Jonghyeuk	Han	UNIST	Hyun-Wook Kang (UNIST)
PRESM2022-A357	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	A Study on Additive Manufacturing of Shear Mold Hot Stamping Parts	Woo-Sung	Kim	Korea Institute of Industrial Technology	Woo-Sung Kim (Korea Institute of Industrial Technology)
PRESM2022-A359	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Optimization on Processing Condition for Additive Manufactured Maraging Steel	Sung Hwan	Hong	Sejong University	Sung Hwan Hong (Sejong University)
PRESM2022-A366	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Operation and Protection Helmet for Military Dog by Design for Additive Manufacturing	Hogi	Ju	Korea Institute of Industrial Technology	Yong Son (Korea Institute of Industrial Technology)
PRESM2022-A375	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Microstructure Evolution and Mechanical Properties of Laser Dissimilar Welding between IN718 and ST5630 and Ti6Al4V Using VCoNi-Medium Entropy Alloy as Interlayer	Hadiseh	Shahmoradian	Hanbat National University	Jeoung Han Kim (Hanbat National University)
PRESM2022-A379	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Research of Interface Microstructure and Mechanical Properties of 3D Printed Dissimilar 17-4PH and SKD61 Steels	Woong	Choo	Hanbat National University	Jeoung Han Kim (Hanbat National University)
PRESM2022-A413	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Development of Technology for UAVs Infrared Spectroscopy System	Jong-Gyun	Kang	Hanbat National University	Geon-Hee Kim (Hanbat National University)
PRESM2022-A417	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Automated Material Extrusion 3D Printing Using Electrodeposited Heating Bed	Dong Geun	Kim	KAIST	Sanha Kim (KAIST)
PRESM2022-A426	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Implementation of Data Utilization System and Service Using Mold Injection Data	Min Jae	Ko	Korea Institute of Industrial Technology	Min Jae Ko (Korea Institute of Industrial Technology)
PRESM2022-A440	1. Manufacturing Processes	On-Site	POSTER 3	22 July Friday, 11:00	Orthogonal Cutting of Soda-lime Glass Under Various Lubrication Conditions	Jihwan	Kim	Korea Aerospace University	Hae-Sung Yoon (Korea Aerospace University)

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PRESM2022-A036	2. Machine Tools & Systems	Online(MP4)		Online : 20-22 July, Whole 3days	Latent Image Sample Processing Using Machining Center	Toru	Yamamoto	National Institute of Technology, Oita College	Toru Yamamoto (National Institute of Technology, Oita College)
PRESM2022-A295	2. Machine Tools & Systems	Online(MP4)		Online : 20-22 July, Whole 3days	CNN-based Single-type Defect Fusion Network for Mixed-type Defects Pattern Recognition on Wafer Bin Maps	Yunseon	Byun	Korea University	Jun-Geol Baek (Korea University)
PRESM2022-A013	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Monitoring System for Rotating Machine Using Deep Learning	Seong Un	Choi	Kangwon National University	Byeong Hee Kim (Kangwon National University)
PRESM2022-A103	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Frequency Measurement Using Impedance Analyzer of 2-DOF Ultrasonic Transducer for Ultrasonic Milling Spindle for Difficult-to-Cut Machining	Rendi	Kurniawan	Yeungnam University	Taejo Ko (Yeungnam University)
PRESM2022-A137	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Prediction of Thermal Induced Error by External Heat Source of a Stage Using a Thermal Imaging Camera and ANN Model	Kibum	Jung	Kyungpook National University	Seung-Han Yang (Kyungpook National University)
PRESM2022-A184	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Robotic Machining Productivity Improvement through a Dynamic Model-based FRF Prediction	Chang Won	Oh	Doosan Machine Tools	Byung-Kwon Min (Yonsei University)
PRESM2022-A252	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Feed-Forward Compensator for Yaw Motion caused by Eccentricity of Headstock in Gantry-Type 3-Axis Feed Drive System	Seung Guk	Baek	Korea Institute of Machinery & Materials	Seung Guk Baek (Korea Institute of Machinery & Materials)
PRESM2022-A259	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Free-rider Attacks on Industrial Federated Learning	Youngjoon	Lee	Korea Institute of Industrial Technology	Jungsoo Nam (Korea Institute of Industrial Technology)
PRESM2022-A274	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	High Precision Interpolator for Robotic Machining considering Kinematic Constraints and Corner Errors	Jae Ho	Lee	Yonsei University	Byung-Kwon Min (Yonsei University)
PRESM2022-A277	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Development of Machinability Diagnosis Program Using Virtual Machining Data	Jaehak	Lee	Korea Institute of Industrial Technology	Jaehak Lee (Korea Institute of Industrial Technology)
PRESM2022-A280	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Development of a Tool Path Compensation Method in CNC Machine Tools Using Machine Learning of Monitoring Signals	Eunseok	Nam	Korea Institute of Industrial Technology	Sangjin Maeng (Hongik University)
PRESM2022-A281	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Predicting the Tracking Performance of Machine Tool Feed Drive Using Simulation Model	Soon-Hong	Hwang	Yonsei University	Byung-Kwon Min (Yonsei University)
PRESM2022-A385	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Machinability Investigation of Cryogenic Tooling Kit in Ti6Al4V Milling Process	Kangwoo	Shin	Korea Institute of Industrial Technology	Tae-Gon Kim (Korea Institute of Industrial Technology)
PRESM2022-A395	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Study on Four-point Contact Ball Bearings Subjected to Angular Misalignment	Gilbert	Rivera	Kumoh National Institute of Technology	Seong-Wook Hong (Kumoh National Institute of Technology)
PRESM2022-A434	2. Machine Tools & Systems	On-Site	POSTER 1	20 July Wednesday, 11:00	Performance Evaluation of the Electric Scooter Posture Restoration Platform	Jaeu	Shin	Yeungnam University	Jihyuk Park (Yeungnam University)
PRESM2022-A047	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Data Augmentation Using Attention Module for Infrared Object Detection	Jinwoo	Cho	Korea Army Academy at Yeongcheon	Jihyuk Park (Yeungnam University)
PRESM2022-A052	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Deep Convolutional Neural Network-based Surface Defect Detection for Wafer	Sankarsan	Mohanty	National Taipei University of Technology	Chao-Ching Ho (National Taipei University of Technology)
PRESM2022-A091	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Control Characteristics of a Mechanically-driven Gas Pressure Controller and Its Application to Precision Pneumatic Temperature Control	Cheongyong	Park	Pukyong National University	Wukchul Joung (Pukyong National University)
PRESM2022-A092	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Thermographic Investigation of Heat Spreading Characteristics of a Vapor Chamber-type Heat Spreader	Jaehyuk	Jeong	Pukyong National University	Wukchul Joung (Pukyong National University)
PRESM2022-A096	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	The Rollover Stability of a Narrow Vehicle with Chassis Tilting System	Woon Ryong	Kim	Korea University	Jae Kyung Shim (Korea University)
PRESM2022-A174	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Contact Detection Using Electrical Breakdown for Ultra-precision Machining	Shodai	Yamada	University of Wisconsin-Madison	Sangkee Min (University of Wisconsin-Madison)
PRESM2022-A225	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Dataset for Recognizing Special Lines in Image Format P&ID with RetinaNet	Yoochan	Moon	Korea University	Duhwan Mun (Korea University)
PRESM2022-A236	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Real-Time Defect Monitoring of Laser Micro-Drilling Using Reflective Light and Machine Learning Models	Yong-Kwan	Lee	Tech University of Korea	Yong-Kwan Lee (Tech University of Korea)
PRESM2022-A297	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Acoustic Reflection Classification of PVDF Sensor Using Convolutional Neural Network	Ju-Heon	Lee	Hanyang University	Seoung-Hwan Lee (Hanyang University)
PRESM2022-A333	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Morphology Operation and Object Recognition Algorithm of Induction Thermography Based LSM	Seungju	Lee	Kongju National University	Wontae Kim (Kongju National University)
PRESM2022-A364	3. Automation, Measurement & Control	Online(MP4)		Online : 20-22 July, Whole 3days	Analysis of IR Strength Behavior according to Distance to Minimize Depth Camera Error	Jinwoo	Jang	Dongguk University	Min-Woo Han (Dongguk University)

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Abstract No.	Topic	PT TYPE	Sort	PT Date PT Time 11:00-12:00 Affixation time 09:00-11:00	Title	Presenter First Name	Presenter Last Name	Presenter Affiliation	Corresponding
PRESM2022-A010	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Investigator Specific Posterior Pelvic Tilt Estimation via Meta-learning	Jae Wook	Jung	Pukyong National University	Jun Pyo Hong (Pukyong National University)
PRESM2022-A012	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Development of Stand-type Robot for Image-based Bio-signal Measurement	Jongho	Bae	Korea Institute of Robotics & Te	Jongho Bae (KIRO(KOREA INSTITUTE OF ROBOTICS & TECHNOLOGY CONVERGENCE))
PRESM2022-A014	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Localization Loading Zone for Autonomous Loading	Donghyeon	Lee	Korea University	Daehie Hong (Korea University)
PRESM2022-A035	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Precise Measurement on Dynamic Ink Spreadability Using High-speed Camera and Nonlinear Regression	Hyung Tae	Kim	Korea Institute of Industrial Technology	Hyung Tae Kim (Korea Institute of Industrial Technology)
PRESM2022-A045	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	UAV Path Planning and Obstacle Avoidance based on LiDAR	Ju Yeon	Kim	Sejong University	Seong Han Kim (Sejong University)
PRESM2022-A070	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Swab Robot-integrated Fast Automated PCR Platform for Viral Infection Screening Clinic	Dongkyu	Lee	Korea Institute of Machinery & Materials	Dongkyu Lee (Korea Institute of Machinery & Materials)
PRESM2022-A093	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Digital Twin-Driven Feedrate Optimization - with Application to Additive Manufacturing	Heejin	Kim	University of Michigan	Chinedum Okwudire (University of Michigan)
PRESM2022-A116	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Design and Feasibility Test of Motorized Hand-held Devices for Intra-compartmental pressure monitoring	Bomi	Yang	Asan Medical Center	Youngjin Moon (Asan Medical Center)
PRESM2022-A128	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	A Technique for Estimation of Electrochemical Surface Area and Performance of Polymer Electrolyte Membrane Fuel Cell	Woncheol	Na	Korea University	Daehie Hong (Korea University)
PRESM2022-A135	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Low-cost Controllable Thermo-hygrostat Chamber for Bacterial Culture Using Arduino Programming	Woohyun	Park	Kumoh National Institute of Technology	Minseok Kim (Kumoh National Institute of Technology)
PRESM2022-A136	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Construction of Learning Data for AI Based Excavation Using Unsupervised Learning Method	Chan Young	Moon	Korea University	Daehie Hong (Korea University)
PRESM2022-A138	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Soil Volume Estimation for Automatic Loading System	Jaewon	Kwak	Korea University	Daehie Hong (Korea University)
PRESM2022-A166	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Development of a Machine Vision based assembly automation system of metallic components	Max	Kim	University of Calgary	Jihyun Lee (University of Calgary)
PRESM2022-A170	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Transient Force Measurement of Pneumatic Actuator for Hydraulic Gate Valve	Tahseen	Kanwal	University of Science and Technology	Young Bog Ham (Korea Institute of Machinery & Materials)
PRESM2022-A172	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Kinematic Analysis of 1DOF Wearable Elbow Rehabilitation Robot	Jung	Gwanghun	Kyungpook National University	Yi Hak (Kyungpook National University)
PRESM2022-A185	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Kinematic Parameter Identification for Improving Accuracy of Dual-robotic Systems	Tae In	Ha	Yonsei University	Byung-Kwon Min (Yonsei University)
PRESM2022-A190	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Tool Path Optimization by Using Improved ACO Algorithm through Density-based Node Accessibility	Cheol Hwan	Oh	Korea Institute of Industrial Technology	Sun Kwang Hwang (Korea Institute of Industrial Technology)
PRESM2022-A195	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Design of Compact Catheter Control Robot for Arrhythmia Ablation	Dongho	Lee	Asan Medical Center	Youngjin Moon (Asan Medical Center, University of Ulsan College of Medicine)
PRESM2022-A204	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Development of Medical Continuum Robot with Double Bending-Unit driven by Plate Actuator	Jisu	Jeon	Korea University	D. Hong (Korea University)
PRESM2022-A216	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Kerf-Tapered-Angle Compensation Control for EPS 5-axis Laser Cutters	Sol	Chai	Korea University	Daehie Hong (Korea University)
PRESM2022-A222	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Real-time Defect Monitoring System for Teflon Tube Using Machine Learning	Chun Muk	Jo	Kangwon National University	Yong Jai Park (Kangwon National University)
PRESM2022-A230	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Parameter Optimization of Active Vibration Isolation System Using Particle Swarm Optimization	Chakir	Soumayya	Pukyong National University	Young Bok Kim (Pukyong National University)
PRESM2022-A242	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Analysis of Noise Characteristics of SMA and Porous Pavement Using OBIS Method	Woong-yong	Lee	Korea Expressway Corporation	Woong-yong Lee (Korea Expressway Corporation)
PRESM2022-A260	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Large Field of View Measurements of Surface Figures by Radial Shearing Interferometry based on a Geometric Phase Lens	Hyo Mi	Park	Chosun University	Ki-Nam Joo (Chosun University)
PRESM2022-A284	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Digital Twin Platform with Deep Reinforcement Learning for Robotic Automation in the Nuclear Power Plant	Su-Young	Park	Seoul National University	Sung-Hoon Ahn (Seoul National University)
PRESM2022-A315	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	3D SLAM for Vehicle with Bumper-mounted Lidar Sensor	Jae-Hun	Jang	Pukyong National University	Kyoung-Chang Lee (Pukyong National University)
PRESM2022-A318	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	A Study on PID Tuning of AVI System with PSO Algorithm	Ilkyun	An	Tech University of Korea	Hyo-Young Kim (Tech University of Korea)
PRESM2022-A370	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Estimation of the Growth Status of Farmed Fish through the Correlation of External Features of Fish	Jung Ho	Kang	Pukyong National University	Kyung Chang Lee (Pukyong National University)
PRESM2022-A376	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Design and Implementation of Deep Learning Model for Prediction of Steam Energy Consumption by Heating Process based on Data Streaming Platform	Chae Young	Lim	Institute for Advanced Engineering	Jae Hoi Gu (Institute for Advanced Engineering)
PRESM2022-A423	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Verification of Artificial Neural Network Algorithm for Thin Film Thickness Measurement	Joonyoung	Lee	University of Science and Technology	Jonghan Jin (University of Science and Technology, Korea Research Institute of Standards & Science)
PRESM2022-A435	3. Automation, Measurement & Control	On-Site	POSTER 1	20 July Wednesday, 11:00	Analysis on Prerequisites to Apply Wireless Sensing to Expand Diagnosis for Secondary Systems in Operating Nuclear Power Plants	Tae-Jin	Park	Korea Atomic Energy Research Institute	Tae-Jin Park (Korea Atomic Energy Research Institute)
PRESM2022-A177	3. Automation, Measurement & Control	On-Site	POSTER 2	21 July Thursday, 11:00	Performance Verification of Extremum Seeking Based Auto-Tuning PID for Tension Control in Weaving Preparation Process	Baeksuk	Chu	Kumoh National Institute of Technology	Baeksuk Chu (Kumoh National Institute of Technology)
PRESM2022-A331	3. Automation, Measurement & Control	On-Site	POSTER 2	21 July Thursday, 11:00	Frequency-modulated Eddy-current Gap Sensor for Real-time Control	Hyeong-Joon	Ahn	Soongsil University	Hyeong-Joon Ahn (Soongsil University)
PRESM2022-A352	3. Automation, Measurement & Control	On-Site	POSTER 2	21 July Thursday, 11:00	Research on the Evaluation of Ship Stability and Correlation Analysis in Large Fishing Vessel	Nam Su	Kwak	Incorporated Research Association of Oceans and Fisheries Science Technology	Sang Hyuk Park (Incorporated Research Association of Oceans and Fisheries Science Technology)
PRESM2022-A404	3. Automation, Measurement & Control	On-Site	POSTER 2	21 July Thursday, 11:00	A Study on a Novel Method to Classify Gait Environment Using Machine Learning	Kyeong-Jun	Seo	National Rehabilitation Center	Hogene Kim (National Rehabilitation Center)
PRESM2022-A068	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	Natural additive as Supportive Reinforcement to Hybrid Fiber Thermoplastic for Improved Mechanical, Thermal and Flame Retardant Properties of Hybrid Composites	Thanh	Mai Nguyen Tran	Changwon National University	Jung-il Song (Changwon National University)
PRESM2022-A083	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	A New Simple Method for Deriving a Flow Stress Curve in High Strain Region	Sung-Min	Lee	Korea Institute of Industrial Technology	Sang-Kon Lee (Korea Institute of Industrial Technology)

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PRESM2022-A095	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	Property Scaling of Bio-composite with Polycaprolactone (PCL) and Dimethyl Sulfone (DMSO ₂)	Jae-Won	Jang	Portland State University	Sung Yi (Portland State University)
PRESM2022-A176	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	CFD Analysis of Inclined Slider Bearing with Multi-Grooves	In-Gyu	Jang	Gyeongsang National University	Tae-Jo Park (Gyeongsang National University)
PRESM2022-A219	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	Electric Conductive Ink based of Cellulose Nanofibers and Carbon Nanotubes for Printing Process	Eun Ae	Shin	Korea Institute of Industrial Technology	Chang Kee Lee (Korea Institute of Industrial Technology)
PRESM2022-A388	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	Light-weight Optimization of Belt in Seat Frame for Autonomous Vehicles	Won Seok	Seok	Kongju National University	Eui Sik Jeon (Kongju National University)
PRESM2022-A389	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	Characteristic Analysis of Microwave Thermal Plasma on Atmospheric according to the Design Parameters of Swirl Torch	Jaekyung	Kim	Kongju National University	Euysik Jeon (Kongju National University)
PRESM2022-A390	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	Analysis of Mechanical Properties according to Reinforcement Pattern for Layered Composites	Yoona	Park	Kongju National University	Euysik Jeon (Kongju National University)
PRESM2022-A416	4. Materials & Design	Online(MP4)		Online : 20-22 July, Whole 3days	Optimal Design of Reinforcement Pattern for Layered Composite of Specific Strength	Dong-Seok	Shin	Kongju National University	Euy-Sik Jeon (Kongju National University)
PRESM2022-A003	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Influence of Uniaxial Tensile Stress on the Galvanic Corrosion Behavior of an Electrically Assisted Pressure Joint of Dissimilar Stainless Steel Alloys	Sam Yaw	Anaman	Hanbat National University	Hoon-Hwe Cho (Hanbat National University)
PRESM2022-A005	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Light Powered Liquid Crystal Elastomer Linear Actuators for Underwater Soft Robotics	Won-bin	Seo	Pusan National University	Ha-beom Lee (Pusan National University)
PRESM2022-A034	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Study on the Windage Loss and Baffles Optimization of High-speed Gear Transmission	Sungki	Lyu	Gyeongsang National University	Xiangying Hou (Gyeongsang National University / Nanjing University of Aeronautics & Astronautics)
PRESM2022-A044	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Optimized Design for Agricultural Assist Suit	Kwan Hyung	Park	Korea Institute of Robotics & Technology Convergence	Hae Yong Yun (Korea Institute of Robotics & Technology Convergence)
PRESM2022-A058	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Cylindrical Warp Knitted Shape Memory Alloy-based Artificial Muscle	Gyomyung	Shin	Seoul National University	Sung-Hoon Ahn (Seoul National University)
PRESM2022-A079	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Mussel-inspired Surface Modification of Fine Cellulose Nanofiber (CNF) Films for Enhancing Multifunctional Properties	Ruth M.	Muthoka	Inha University	Jaehwan Kim (Inha University)
PRESM2022-A080	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Analysis of the Deformation Mechanism of Enamelled Copper Wires for Hairpin Winding	Ji Seob	An	Korea Institute of Industrial Technology	Myeong Sik Jeong (Korea Institute of Industrial Technology)
PRESM2022-A084	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Continuous Fabrication of Nanocellulose Long Hybrid Fibers Coated with Esterified-Poly (vinyl alcohol)-Citric Acid-Lignin Resin with Multifunctional Properties	Pooja	S. Panicker	Inha University	Jaehwan Kim (Inha University)
PRESM2022-A119	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Construction of Ball Screw Straightening Process with a Variety of Heat Treatment	Ji Hyeon	Shin	Korea Aerospace University	Hae-Sung Yoon (Korea Aerospace University)
PRESM2022-A123	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Evaluation of Mechanical Property of Al-2.5%Mg Alloy Using In-situ System	A Ra	Jo	Korea Institute of Industrial Technology	Sun Kwang Hwang (Korea Institute of Industrial Technology)
PRESM2022-A129	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Development of Electrospun Silicon/PCL Multi-layer Stent Coating Film Manufacturing Technology for Multi-functional Covered Stent Development	Jeong Chan	Lee	Jeonbuk National University	Cheol Sang Kim (Jeonbuk National University)
PRESM2022-A131	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Soft Tissue Motion Measurement System according to Knee Condition	Minchae	Kang	Dongguk University	Min-Woo Han (Dongguk University)
PRESM2022-A134	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Kirigami Structural Forceps for Endoscopic Extirpation of Foreign Body	Seong Hyeon	Won	Korea University	D. Hong (Korea University)
PRESM2022-A180	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Microstructure Evolution and Corrosion Behavior of High Mg Contained Al-Mg Alloys by Work-hardening and Heat Treatment	Kweon-Hoon	Choi	University of Science and Technology	Bong-Hwan Kim (Korea Institute of Industrial Technology)
PRESM2022-A183	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	All-natural Esterified Thermoset Resin Tailored for Cellulose Long-filament Reinforced Polymer Composite	Dickens	O. Agumba	Inha University	Jaehwan Kim (Inha University)
PRESM2022-A186	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Soft Polymer Materials with Thermosensitive Mechanical Properties by Introducing Thermoreversible Hydrogel Droplets in the Matrix	Chaemin	Kim	POSTECH	Anna Lee (POSTECH)
PRESM2022-A194	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Crack Patterns on Soft Substrates containing a Wrinkled Layer Inside	Junsik	Kim	POSTECH	Anna Lee (POSTECH)
PRESM2022-A202	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Synthesis Highly Flexible and Biocompatible Acryl-polyurethane for 3D Printing Architectures.	Min-Ji	Seo	Pusan National University	Pil Ho Huh (Pusan National University)
PRESM2022-A205	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Soft Pump Using Buckling of Spherical Shell Under Tension	Byungho	Lee	POSTECH	Anna Lee (POSTECH)
PRESM2022-A209	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Design and Performance of a Pneumatic-Based Expanding Torsional Soft Spring Actuator	Seongwon	Jang	Sungkyunkwan University	Hugo Rodrigue (Sungkyunkwan University)
PRESM2022-A210	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Towards the Development of a Bidirectional Pneumatic Artificial Muscle	Altair	Sales Coutinho Junior	Sungkyunkwan University	Hugo Rodrigue (Sungkyunkwan University)
PRESM2022-A211	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Design and Performance of a Gusseted Pouch Motors for Robot Arm	Jae Hyuck	Jang	Sungkyunkwan University	Hugo Rodrigue (Sungkyunkwan University)

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PRESM2022-A212	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Surfactant-assisted Fabrication of P-type Sb ₂ Te ₃ -PEDOT:PSS Thermoelectric Fiber Using Wet-spinning	Da-hye	Kim	University of Science and Technology	Seungwoo Han (Korea Institute of Machinery & Materials)
PRESM2022-A218	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	High-performance Passive Suction Cup Using Elasticity of Hollow Hemispherical Cap	Yuseong	Song	POSTECH	Anna Lee (POSTECH)
PRESM2022-A231	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Facile Fabrication of Reduced Graphene Oxide by Thermal Self-propagation Approach	Chau	Van Tran	Chung-Ang University	Jung Bin In (Chung-Ang University)
PRESM2022-A233	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Soft Damper for Highly Effective Flow Pulsation Reduction	Jinwoo	Lee	POSTECH	Anna Lee (POSTECH)
PRESM2022-A238	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Synthesis and Characterizations of Isosorbide Based Polyurethane : Biodegradable Biomass Material with Different Polyol and Hard Segment Ratios for Water-Barrier Film	Young-Hyun	Mo	Pusan National University	Pil Ho Huh (Pusan National University)
PRESM2022-A241	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Additive Manufacturing and Performance Evaluation for the Optimal Design of Patient-specific Bone Plate for Distal Radius Fractures	Su Hyun	Park	Korea Institute of Industrial Technology	Kyung Hwan Jung (Korea Institute of Industrial Technology)
PRESM2022-A244	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Magnetically Stable Mobile Robot with Magnetic Flux Control	Sang Uk	Nam	Chungnam National University	Young-Woo Park (Chungnam National University)
PRESM2022-A245	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Uniform Elastomer Suspension Coating on Cylinders by Bi-axial Oscillation	Jeongrak	Lee	POSTECH	Anna Lee (POSTECH)
PRESM2022-A246	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Proof-of-concept of Magnetic Force Control for Mobile Robot Application	So-Hee	Park	Chungnam National University	Young-Woo Park (Chungnam National University)
PRESM2022-A248	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Design and Performance Prediction of Contactless Labyrinth Seal for Cryogenic Fluids	Yubin	Kim	Changwon National University	Seokho Kim (Changwon National University)
PRESM2022-A275	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	The Effect of NCO Content in Polyurethane Foam for Automotive Instrument Panel	Jin-Gyu	Min	Pusan National University	Pil Ho Huh (Pusan National University)
PRESM2022-A285	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Mechanical Behaviors of Titanium, Steel, and Aluminum Alloys with Lattice Structures Using Selective Laser Melting (SLM) Method	Van Loi	Tran	University of Ulsan	Sung-Tae Hong (University of Ulsan)
PRESM2022-A300	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	An Investigation into the Microstructural, Mechanical and Electrochemical Properties of Ti Alloys for Aviation Application	Hyojoo	Lee	Hanbat National University	Hoon-Hwe Cho (Hanbat National University)
PRESM2022-A304	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Shape-adaptive Smart Composite Soft Parallel Gripper for Damage Minimization	Jae-Young	Lee	Sungkyunkwan University	Sung-Huyk Song (Korea Institute of Machinery & Materials)
PRESM2022-A305	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Design of Large Deformation Suction Grippers for Gripping Complex Shapes	Yong-Sin	Seo	Sungkyunkwan University	Sung-Hyuk Song (Korea Institute of Machinery & Materials)
PRESM2022-A306	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Accurate Flow Characterization of Al 6082 for Precision Simulation of a Hot Forging Process	Jeong Hwi	Park	Hyundai Wia	Man Soo Joun (Gyeongsang National University)
PRESM2022-A307	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Dynamic Simulation of Rock Cutting Performance of a 130t Roadheader	Mun-Gyu	Kim	Korea Institute of Industrial Technology	Jung-Woo Cho (Korea Institute of Industrial Technology)
PRESM2022-A309	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Evaluation of Optimum Process Design of Rock Cutting-splitting Method by Analytic Solution and Dynamic Simulations	Mun-Gyu	Kim	Korea Institute of Industrial Technology	Jung-Woo Cho (Korea Institute of Industrial Technology)
PRESM2022-A324	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Unique Effects of the Electron Beam Irradiation on the Stability of Hard Coatings	Jisoo	Kim	Kyungpook National University	Jisoo Kim (Kyungpook National University)
PRESM2022-A329	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Study of Rough Surface Elastohydrodynamic Lubrication Film Formation with Loading Contact and Elastic Modulus Variations	Siyoul	Jang	Kookmin University	Siyoul Jang (Kookmin University)
PRESM2022-A373	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Quantitative Assessment of Friction and Wear Properties of CoCr-based Alloys	Se Jin	Oh	University of Ulsan	Koohyun Chung (University of Ulsan)
PRESM2022-A381	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Experimental Assessment of Tribological Characteristics of Glass Run Channel	Subin	Cha	University of Ulsan	Koo-Hyun Chung (University of Ulsan)
PRESM2022-A387	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Optimization of a Blanking Property Prediction Probe based on Electromagnetic-thermal-mechanical Analysis	Daehyun	Yoon	Sungkyunkwan University	Eunho Lee (Sungkyunkwan University)
PRESM2022-A410	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Cobalt Metal-organic Frameworks on Carbon Felt for the High Performance of Vanadium Redox Flow Batteries	Jae-Moon	Jeong	KAIST	Seong Su Kim (KAIST)
PRESM2022-A437	4. Materials & Design	On-Site	POSTER 1	20 July Wednesday, 11:00	Study of Radio Frequency Plasma Spheroidization Effect on the Microstructure Characteristic and Mechanical Properties of Ferritic ODS Steel	Marzi Andrews Nsiah	Ashong	Hanbat National University	Jeong Han Kim (Hanbat National University)

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Abstract No.	Topic	PT TYPE	Sort	PT Date PT Time 11:00-12:00 Affixation time 09:00-11:00	Title	Presenter First Name	Presenter Last Name	Presenter Affiliation	Corresponding
PRESM2022-A071	5. Micro/Nano Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Optimization on the Fabrication Parameter of Core-shell PLA Nanofibers for Self-healing Composites	Mohamad Tarmizie	Bin Hassim	Changwon National University	Jung Il Song (Changwon National University)
PRESM2022-A075	5. Micro/Nano Technology	Online(MP4)		Online : 20-22 July, Whole 3days	A Study on Mechanical Properties of Micro/Nano Surface Polished Diaphragm Plates for Hydrogen Gas Compressor	Sung-Jun	Lee	Chosun University	Chang-Lae Kim (Chosun University)
PRESM2022-A099	5. Micro/Nano Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Determination of the Poisson's Ratio of a Metallic Thin Film Using the Picosecond Ultrasonics	Yun Young	Kim	Chungnam National University	Yun Young Kim (Chungnam National University)
PRESM2022-A109	5. Micro/Nano Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Investigation of Nanoscale Wear of Thin Film Coatings Using an AFM	Young Chan	Jung	Yonsei University	Dae-Eun Kim (Yonsei University)
PRESM2022-A262	5. Micro/Nano Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Micro Electrical Discharge and Electrochemical Machining of Stainless Steel Using the Same Electrode	Noritaro	Kasamo	Keio University	Jiwang Yan (Keio University)
PRESM2022-A343	5. Micro/Nano Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Dynamics of Compound Droplet with Different Viscosities on Non-wettable Macrostructure	Sungchan	Yun	Korea National University of Transportation	Sungchan Yun (Korea National University of Transportation)
PRESM2022-A344	5. Micro/Nano Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Bouncing Dynamics of Viscous Droplet with Noncircular Footprint on Superhydrophobic Ridged Surface	Sungchan	Yun	Korea National University of Transportation	Sungchan Yun (Korea National University of Transportation)
PRESM2022-A006	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Monolithic Fabrication of Graphene Spring by Laser-induced Pyrolytic Jetting	Chan-woo	Kim	Pusan National University	Ha-beom Lee (Pusan National University)
PRESM2022-A019	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	An Artificial Intelligence Approach for Optimizing the Performance of Membraneless Microfluidic Fuel Cells	Dang Dinh	Nguyen	Kyungpook National University, National Research Institute of Mechanical Engineering	Gyu Man Kim (Kyungpook National University)
PRESM2022-A020	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Magneto-responsive Dynamic Nanospine Composites as a Bioinspired Antifouling Material	Geonjun	Choi	UNIST	Hoon-Eui Jeong (UNIST)
PRESM2022-A025	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Enhancing the Stretch Ratio of a Vertically Stacked Wavy Circuit in Stretchable Device	Oluwabukola	Adebisi	Kongju National University	Jung-Hoon Yun (Kongju National University)
PRESM2022-A028	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Analysis of Ductile Machining and Nanoscale Deformation of Single-crystal Materials	Dong-Hyun	Seo	University of Ulsan	Eun-chaee Jeon (University of Ulsan)
PRESM2022-A029	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Magnetically Responsive and Photothermal Composite Cilia Arrays for Anti-icing and De-icing	Jaeil	Kim	UNIST	Hoon-Eui Jeong (UNIST)
PRESM2022-A031	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Enhanced Thermal Transport in a Flexible Thermal Device by a Self-Interfacing Characteristic	Hyukjoo	Kwon	UNIST	Hoon-Eui Jeong (UNIST)
PRESM2022-A032	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	AgNWs-embedded Nano-patterned PDMS Cantilever for Promoting Maturation of Cardiomyocytes	Yuyan	Liu	Chonnam National University	Dong-Weon Lee (Chonnam National University)
PRESM2022-A046	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Laser-induced Graphene Anode for High-rate Performance Lithium-ion Batteries	Hyungcheoul	Shim	Korea Institute of Machinery & Materials	Hyungcheoul Shim (Korea Institute of Machinery & Materials)
PRESM2022-A061	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Plastic-based Microfluidic Device Using UV-curable Epoxy for Culturing Anaerobic Bacteria	Jeaseok	Lee	Kumoh National Institute of Technology	Minseok Kim (Kumoh National Institute of Technology)
PRESM2022-A078	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Egg-tray-inspired capacitive flexible pressure sensor with high sensitivity for various applications	Feifei	Yin	Kwangwoon University	Nam Young Kim (Kwangwoon University)
PRESM2022-A081	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	An Electrical Biofilm Treatment System for Effective Infection Management	Sunghee	Won	Proxi Healthcare	Young Wook Kim (Proxi Healthcare)
PRESM2022-A082	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Design, Fabrication and Testing of Water Prevention Electromechanical System	Seongjun	Yun	Proxi Healthcare	Young Wook Kim (Proxi Healthcare)
PRESM2022-A085	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Development of Hyaluronic Acid-based Detachable Microneedle Patch	Su Hyang	Lee	Chonnam National University	Kang Ju Lee (Chonnam National University)
PRESM2022-A098	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Interaction Energy of Aerosol Deposited Silver Nanoparticle on PDMS	Dae Seob	Song	Seoul National University	Sung Hoon Ahn (Seoul National University)
PRESM2022-A100	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Sensing properties of PVDF/LiCl nanocomposites fabricated on the Polyimide flexible substrate for humidity sensing applications	Enkhzaya	Ganbold	Kwangwoon University	Nam Young Kim (Kwangwoon University)
PRESM2022-A108	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Investigation of Friction Behavior of Patterned Surface under Lubrication Condition	Jae-Ho	Han	Yonsei University	Dae-Eun Kim (Yonsei University)
PRESM2022-A112	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Green Manufacturing of Superhydrophobic Aluminum Surface and Its Corrosion Resistance	Ngoc Giang	Tran	University of Ulsan	Doo-Man Chun (University of Ulsan)
PRESM2022-A118	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Development of Porous Microneedle Using Freeze-drying Process	Chang Rim	Woo	Chonnam National University	Kang Ju Lee (Chonnam National University)
PRESM2022-A120	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Development of Flexible, Stretchable, and Adherable Hyaluronic Microneedle Patch	Ha Jin	Kim	Chonnam National University	Kang Ju Lee (Chonnam National University)
PRESM2022-A121	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Fabrication of GelMA Nanoparticles by Electrospraying	Geon A	Kim	Chonnam National University	Kang Ju Lee (Chonnam National University)
PRESM2022-A122	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Optimization of Microneedle Printing Angles in SLA-based 3D Printer	Ji Eun	Jeong	Chonnam National University	Kang Ju Lee (Chonnam National University)
PRESM2022-A125	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Fabrication and Characterization of CNT-based Conductive Microneedle Array	Byeori	Kim	Chonnam National University	Kang Ju Lee (Chonnam National University)
PRESM2022-A140	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Numerical Study on Cooling Efficiency according to the Structure of Manifold Microchannel Heat Sink	Chan Woo	Park	Changwon National University	Heesung Park (Changwon National University)
PRESM2022-A141	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Fabrication of Microfluidic Channel Network Using a Low-cost Laser Engraver with Shrinking Plastic Sheets	Hyeju	Yoo	Kumoh National Institute of Technology	Minseok Kim (Kumoh National Institute of Technology)
PRESM2022-A142	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Replication of 3D Microstructures by Poisson Effect-assisted Soft Lithography	Minsu	Kim	Kyungpook National University	Moonkyu Kwak (Kyungpook National University)
PRESM2022-A150	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	The Effect of the Microstructural Shape on Long-term Liquid Repellency	Seungmin	Oh	Changwon National University	Youngtae Cho (Changwon National University)
PRESM2022-A187	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	The Investigation of Highly Stretchable Conductive Inks for 3-Dimensional Printed In-mold Electronics	Jun	Choi	Korea Institute of Industrial Technology	Jun Choi (Korea Institute of Industrial Technology)

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PRESM2022-A203	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Ultralong-term Water Repellency of Interconnected 3D Microcavity Structures	Seo Rim	Park	Changwon National University	Young Tae Cho (Changwon National University)
PRESM2022-A206	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Preparation of Biodegradable Polymer Microbead Disinfectant Using Microemulsion System	Bong Su	Kang	Kyungpook National University	Moon Kyu Kwak (Kyungpook National University)
PRESM2022-A232	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Fabrication of Nanofiber Membrane for Nanofiber Integrated Microwell Array based on Wire Electrode Electrospinning.	Jisang	Lee	POSTECH	Dong Sung Kim (POSTECH)
PRESM2022-A267	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Development of Ultra-high Molecular Weight PP Reinforced with Modified Nanocellulose for Mechanical Strength and Low Specific Gravity	Ju-Hong	Lee	Pusan National University	Pil Ho Huh (Pusan National University)
PRESM2022-A271	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	An Ultrathin Shadow Mask Fabricated via Self-delamination-based Transfer and Manipulated Using Transfer Printing	Sang Yeop	Lee	POSTECH	Seok Kim (POSTECH)
PRESM2022-A278	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Influence of Metal Sulfides Precursor on Sulfur Resistance Property for NH3-SCR Catalyst	Bora	Ye	Korea Institute of Industrial Technology	Hong-Dae Kim (Korea Institute of Industrial Technology)
PRESM2022-A282	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Fabrication of Nanofibrous Microwell Array through Thermoforming Process for the Stable Formation of Functional Spheroids	Dohui	Kim	POSTECH	Dong Sung Kim (POSTECH)
PRESM2022-A292	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Microfluidic RF Biosensor based on IPD for Glucose Sensing	Wei	Yue	Kwangwoon University	Nam Young Kim (Kwangwoon University)
PRESM2022-A296	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Wide-range and High-stability Flexible Capacitive Pressure Sensors Enabled by a Porous Nanocomposite with Hierarchical Microstructures	Yunjian	Guo	Kwangwoon University	Jong-Chul Lee (Kwangwoon University)
PRESM2022-A337	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Catalyst-anchored Hydrogen Gas Leak Detector on Sodolime for Automobile Application	Gustavo	Panama	KAIST	Seung S. Lee (KAIST)
PRESM2022-A353	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Nitrogen and Ultrapure Water Mixing Ratio of Two-fluid Nozzle for Epoxy Cleaning	Jongjin	Lee	Gachon University	Keunhwan Park (Gachon University)
PRESM2022-A356	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Core-sheath-design-based Plasmonic Nanowires for Surface-enhanced Raman Spectroscopy	Hongdoo	Kim	POSTECH	Hyung Gyu Park (POSTECH)
PRESM2022-A360	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Experimental Assessment of Frictional Properties of Two-dimensional Hybrid Organic-inorganic Perovskites	Vo Kim Hieu	Van	University of Ulsan	Koo-Hyun Chung (University of Ulsan)
PRESM2022-A361	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Optimization of Friction Characteristics of 2D Materials Using Taguchi Method	Thanh-Duy	Le	University of Ulsan	Koo-Hyun Chung (University of Ulsan)
PRESM2022-A372	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Development of Microflow Controller through Feedback Control of Portable Air Pump based on Artificial Intelligence Image Analysis	Wansoo	Choi	Kumoh National Institute of Technology	Minseok Kim (Kumoh National Institute of Technology)
PRESM2022-A383	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Roll-to-Roll(R2R) Gravure Printing on Hydrophobic TPU Substrate for Stretchable Device	Geonhui	Lee	Konkuk University	Dongjin Lee (Konkuk University)
PRESM2022-A421	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Solution-processed Transparent Complex Electrodes based on Silver Nanowire and Metal Oxide	Thi Ly	Trinh	Hanbat National University	Hongseok Youn (Hanbat National University)
PRESM2022-A422	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	The Effect of Structural Properties for Cleaning Performance of PVA Brush during Post-CMP	Somin	Shin	KAIST	Sanha Kim (KAIST)
PRESM2022-A425	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Growth Ag Crystal Seed on ZnO NPs Layer for Optical Properties Creation by Reduction of Silver Ink under Ultraviolet Wavelength	Nhung	Le Thi Tuyet	Hanbat National University	Hongseok Youn (Hanbat National University)
PRESM2022-A441	5. Micro/Nano Technology	On-Site	POSTER 2	21 July Thursday, 11:00	Fabrication of Insert Structure using Thin Nanofibers Membrane	Jeong Hwa	Kim	Kyungpook National University	Young Hun Jeong (Kyungpook National University)
PRESM2022-A132	6. New and Renewable Energy	Online(MP4)		Online : 20-22 July, Whole 3days	Shaft Damage Load of NREL 5MW Wind Turbine for Natural Frequency of LPF	Chae Wook	Lim	Hanbat National University	Chae Wook Lim (Hanbat National University)
PRESM2022-A268	6. New and Renewable Energy	Online(MP4)		Online : 20-22 July, Whole 3days	Hole Transport Layer Films of Two-dimensional Nanomaterials for Organic Solar Cells	Ya-Han	Lee	National Kaohsiung University of Science & Technology	Chin-Tai Chen (National Kaohsiung University of Science & Technology)
PRESM2022-A347	6. New and Renewable Energy	Online(MP4)		Online : 20-22 July, Whole 3days	On the Water Bubbling for Stability Enhancement of Reformate Gas-fueled Low-temperature Solid Oxide Fuel Cell with Nickel Thin-film Anode	Sang Hoon	Ji	Korea Institute of Civil Engineering & Building Technology	Sang Hoon Ji (Korea Institute of Civil Engineering & Building Technology)
PRESM2022-A033	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Influence of Ionomer Distribution on Electrochemical Performance of Quaternion PtC Catalyst Layers in PEM Fuel Cells	Ali	Akbar	Hanyang University	Sukkee Um (Hanyang University)
PRESM2022-A055	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Controlling Oxygen Defect Chemistry at Electrolyte Surface of Intermediate Temperature Solid Oxide Fuel Cells	Seo Ju	Kim	Sungkyunkwan University	Wonyoung Lee (Sungkyunkwan University)
PRESM2022-A097	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Silica Added Polymer Electrolyte Membrane for All Solid-state Lithium Batteries	Waqas	Ul Arifeen	Yeungnam University	Taejo Ko (Yeungnam University)
PRESM2022-A114	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Effect of Ni-GDC Thin-film Anode Thickness on Solid Oxide Fuel Cells based on Nanoporous Substrates	Myung Seok	Lee	Seoul National University	Suk Won Cha (Seoul National University)
PRESM2022-A145	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Triboelectric Nanogenerator with Charge Pumping by Combining Vertical Motion and Sliding Motion	Sungho	Ji	Korea University of Technology & Education	Jinhyoung Park (Korea University of Technology & Education)
PRESM2022-A153	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Numerical Investigation of Different Flow Channel Designs for the Cooling Performance of High Voltage Direct Current Devices	Ehtesham	Ali	Changwon National University	Hee Sung Park (Changwon National University)
PRESM2022-A175	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Numerical Investigation of Cooling Performance considering Deterioration of Thermal Barrier Coating(TBC) to Optimize the Thickness of Thermal Barrier Coating(TBC) in Regenerative Maintenance Process of Gas Turbine	Hwabhin	Kwon	Changwon National University	Heesung Park (Changwon National University)
PRESM2022-A178	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Numerical Study on the Cooling Performance according to Film Cooling Hole Structure with Vortex Generator	Chan Hyeok	Park	Changwon National University	Heesung Park (Changwon National University)
PRESM2022-A179	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Comparative Analysis of Heat Transfer Performance Using Mist/Stem Coolant in a Channel with Different Shaped of Rib-turbulator	Sajan	Tamang	Changwon National University	Heesung Park (Changwon National University)

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PRESM2022-A181	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Tailoring Sputtered LSCF - GDC Oxygen Electrodes for Low Temperature (500 C) H ₂ O/CO ₂ Co-electrolysis of Thin-film Solid Oxide Electrolyzer Cells	In Won	Choi	Seoul National University	Suk Won Cha (Seoul National University)
PRESM2022-A217	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Effects of Surface Treatment of Nano-porous Anodized Aluminum Oxide Substrate for Low Temperature Solid Oxide Fuel Cells	Young Jo	Lee	Dankook University	Gu Young Cho (Dankook University)
PRESM2022-A223	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Effects of Mist Humidification with NaCl Solution on Characteristics of PEMFCs	Ho Jun	Yoo	Dankook University	Gu Young Cho (Dankook University)
PRESM2022-A251	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Effects of Geometry of Flow Channel on PEMFCs Humidified with NaCl Solution	Dong Kun	Song	Dankook University	Gu Young Cho (Dankook University)
PRESM2022-A261	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Optimization of Current Collecting Layer & Thickness of 3D Printed Polymer Bipolar Plates for Ultra-light Polymer Electrolyte Membrane Fuel Cells	Gye Eun	Jang	Dankook University	Gu Young Cho (Dankook University)
PRESM2022-A263	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	A Study of Cryogenic Fluid Quantitative Transfer by PBU Method for Hydrogen - HTS Motor Propulsion System	Kihwan	Kim	Changwon National University	Seokho Kim (Changwon National University)
PRESM2022-A293	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Multiwalled Carbon Nanotube Coated Toray Carbon Paper-based Air-breathing Biocathode for Enzymatic Biofuel Cell	Haroon	Khan	Kyungpook National University	Gyu Man Kim (Kyungpook National University)
PRESM2022-A371	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Seawater Secondary Battery Package for Marine Equipment Application and BMS Module and Algorithm Design considering Stability and Efficiency	Hyunjun	Jang	Pukyong National University	Kyung Chang Lee (Pukyong National University)
PRESM2022-A378	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	The Performance of Flexible Polymer Electrolyte Membrane Fuel Cell Applied by Various Gas Diffusion Layers in Flat and Bent Position	Yoonho	So	Soongsil University	Taehyun Park (Soongsil University)
PRESM2022-A405	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	New Alloy Electrode for All Solid States Battery	Sangwoo	Kim	Korea Institute of Industrial Technology	Dong Eung Kim (Korea Institute of Industrial Technology)
PRESM2022-A427	6. New and Renewable Energy	On-Site	POSTER 2	21 July Thursday, 11:00	Nanostructured Cu Mesh with Melt-infused Li for Lithium Metal Battery Anode	Inyeong	Yang	KAIST	Sanha Kim (KAIST)
PRESM2022-A161	7. Sustainable Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Real-time Fault Identification System for a Retrofitted Ultra-precision CNC Machine from Equipment's Power Consumption Data: A Case Study of an Implementation	Sangkee	Min	University of Wisconsin-Madison	Sangkee Min (University of Wisconsin-Madison)
PRESM2022-A191	7. Sustainable Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Sustainable High-performing Hybrid Eco-thermoset Matrix Blended from Non-phosphorylated Epoxidised Com Oil and Vinyl Ester Resin	Maurelio Jr	Cabo	Changwon National University	Jung-II Song (Changwon National University)
PRESM2022-A226	7. Sustainable Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Estimating Human Body Measurement from Rendered Human Mesh Image with Deep learning	Hyeonseok	You	REMO Inc.	Jaesoon Choi (University of Ulsan)
PRESM2022-A391	7. Sustainable Technology	Online(MP4)		Online : 20-22 July, Whole 3days	Recovering Carbon Fiber from Carbon-fiber-reinforced Polymers by Microwave Irradiation	Sangjun	Jeon	Kongju National University	Daejong Yang (Kongju National University)
PRESM2022-A056	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Laminar Flame Speed and Markstein Length of Propane-oxygen Mixtures	Wookyoung	Kim	Hiroshima University	Wookyoung Kim (Hiroshima University)
PRESM2022-A101	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Development of Gait Events Detection Algorithm without Accurate Global Coordinate System	Jungyoon	Kim	REMO Inc.	Jungyoon Kim (REMO Inc.)
PRESM2022-A106	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Comparison of Neutralization Methods in Triboelectrostatic Separation of Plastic Mixture	Jongdeok	Yoo	Korea University	Jaehwa Jeong (Korea University)
PRESM2022-A127	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Policy Review and Suggestions for Cutting Down Noise Complaints	Chulhwan	Kim	Korea Expressway Corporation	Chulhwan Kim (Korea Expressway Corporation)
PRESM2022-A139	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	An Experiment on Cooling Performance according to Air-cooling Application of Pouch Battery Module	Gyu Young	Cheon	Changwon National University	Hee Sung Park (Changwon National University)
PRESM2022-A189	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Bio-reprinting for Fabrication of Micro-structured Tissue with High Resolution	Jae-Hun	Kim	Tech University of Korea	Won-Soo Yun (Tech University of Korea)
PRESM2022-A193	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Electrochemical Performance Change in Response to Various Temperature Changes of Electrolyte for Positive Electrode of Vanadium Redox Flow Battery	Dukhyung	Kim	Changwon National University	Heesung Park (Changwon National University)
PRESM2022-A253	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	A Study on the Correlation between Direct Cooling of Lithium Polymer Battery and Cooling Performance according to Discharge Rate	Jaehun	Choi	Changwon National University	Heesung Park (Changwon National University)
PRESM2022-A264	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Biomechanical Stability Comparison for Angular Variation of the Femoral Neck Fracture Plane when Inserting a Femoral Neck System(FNS) Using the Finite Element Method	Yoon Ji	Lee	Dongguk University	Hong Seok Lim (Dongguk University)
PRESM2022-A270	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	The Improvements of Dry Metal Forming Using CO ₂ as Volatile Media	Lihong	Cai	University of Ulsan	Sungtae Hong (University of Ulsan)
PRESM2022-A273	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	A Field Test for Data Correlation Analysis between Simple Fine Dust Measuring Instrument and Certified Fine Dust Measuring Instrument	Hyejin	Kang	Korea Expressway Corporation Research Institute	Hyejin Kang (Korea Expressway Corporation)
PRESM2022-A299	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Fatigue Life of a Thermoelectric Power Generation System under Thermal Cycling	Seungik	Shin	University of Science and Technology	Seungwoo Han (Korea Institute of Machinery & Materials)
PRESM2022-A420	7. Sustainable Technology	On-Site	POSTER 3	22 July Friday, 11:00	Electrochemical Dioxidation of Titanium Using Molten Magnesium Chloride	Uijun	Go	Hanbat National University	Jeoung Han Kim (Hanbat National University)

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Abstract No.	Topic	PT TYPE	Sort	PT Date PT Time 11:00-12:00 Affixation time 09:00-11:00	Title	Presenter First Name	Presenter Last Name	Presenter Affiliation	Corresponding
PRESM2022-A016	Special session - 1. Railway Engineering	On-Site	POSTER 2	21 July Thursday, 11:00	A Study on Lateral Force Distribution Characteristics and Allowance Limits of Urban Railway Vehicles	Young-Sam	Ham	Korea Railroad Research Institute	Young-Sam Ham (Korea Railroad Research Institute)
PRESM2022-A041	Special session - 1. Railway Engineering	On-Site	POSTER 2	21 July Thursday, 11:00	Rail Profile Measurement Method with Two Laser Displacement Sensors	Wootae	Jeong	Korea Railroad Research Institute	Wootae Jeong (Korea Railroad Research Institute)
PRESM2022-A086	Special session - 1. Railway Engineering	On-Site	POSTER 2	21 July Thursday, 11:00	Monitoring Technique for Diagnosing the Condition of High-speed Vehicles on Running	Seok Jin	Kwon	Korea Railroad Research Institute	Seok Jin Kwon (Korea Railroad Research Institute)
PRESM2022-A110	Special session - 1. Railway Engineering	On-Site	POSTER 2	21 July Thursday, 11:00	Shunting Analysis Applying Speed Dependent Characteristics of Hydrostatic Buffer Using Multilayer Perceptron	Jun Hyeok	Hwang	University of Science and Technology	Hyun Seung Jung (UST)
PRESM2022-A312	Special session - 1. Railway Engineering	On-Site	POSTER 2	21 July Thursday, 11:00	A Study on Detect Detection in the Welding Part of the Bogie Connection for High-speed Rail Vehicles	Chan Woo	Lee	Korea Railroad Research Institute	Seok Jin Kwon (Korea Railroad Research Institute)
PRESM2022-A341	Special session - 1. Railway Engineering	On-Site	POSTER 2	21 July Thursday, 11:00	Design of Hub Contact Edge Shape to Improve Fatigue Crack Initiation Life in a Press-fit Assembly	Dong Hyung	Lee	Korea Railroad Research Institute	Dong Hyung Lee (Korea Railroad Research Institute)
PRESM2022-A348	Special session - 1. Railway Engineering	On-Site	POSTER 2	21 July Thursday, 11:00	Rolling Contact Test Using Welding Specimen of Railway Vehicle Wheels	Jung-Won	Seo	Korea Railroad Research Institute	Jung-Won Seo (Korea Railroad Research Institute)
PRESM2022-A367	Special session - 1. Railway Engineering	On-Site	POSTER 2	21 July Thursday, 11:00	Study on Tire Failure Mode Analysis of Light Rail Transit with Rubber Wheels	Seong Kwang	Hong	Korea Railroad Research Institute	Seong Kwang Hong (Korea Railroad Research Institute)
PRESM2022-A313	Special session - 2. High Precision Large Area Production Technology	On-Site	POSTER 3	22 July Friday, 11:00	Health Indicator Optimization Algorithm based on Frequency Bands for Remaining Useful Life Prognosis of Bearings in Roll-to-Roll Systems	Myeonghwan	Yeo	Konkuk University	Changwoo Lee (Konkuk University)
PRESM2022-A325	Special session - 2. High Precision Large Area Production Technology	On-Site	POSTER 3	22 July Friday, 11:00	Optimization Algorithm of Bearing Condition Diagnosis Model based on Feature Engineering	Hyogeun	Oh	Konkuk University	Changwoo Lee (Konkuk University)
PRESM2022-A326	Special session - 2. High Precision Large Area Production Technology	On-Site	POSTER 3	22 July Friday, 11:00	A Study on the Variation of Surface Properties between Substrate and Ink due to Operating Tension in Roll to Roll Printed Electronics	Minho	Jo	Konkuk University	Changwoo Lee (Konkuk University)
PRESM2022-A362	Special session - 2. High Precision Large Area Production Technology	On-Site	POSTER 3	22 July Friday, 11:00	Design and Simulation of Preprogrammed Microfluidic System for Parallel Anti-reflection Coating by Layer-by-layer Assembly	Emamul	Kabir	Konkuk University	Sung-Jin Kim (Konkuk University)
PRESM2022-A363	Special session - 2. High Precision Large Area Production Technology	On-Site	POSTER 3	22 July Friday, 11:00	Experimental Validation of Preprogrammed Microfluidic System for Parallel Anti-reflection Coating by Layer-by-layer Assembly	Emamul	Kabir	Konkuk University	Sung-Jin Kim (Konkuk University)
PRESM2022-A374	Special session - 2. High Precision Large Area Production Technology	On-Site	POSTER 3	22 July Friday, 11:00	Optimization of R2R Slot-die Coating Process Parameters for Large-area Coating of Optically Clear Adhesive on Stretchable Substrate	Horim	Lee	Konkuk University	Dongjin Lee (Konkuk University)
PRESM2022-A411	Special session - 2. High Precision Large Area Production Technology	On-Site	POSTER 3	22 July Friday, 11:00	Analysis of the Stress and Strain Distribution in the Transporting Thin Film of the Roll-to-Roll Process Using Flexible Multi-body Dynamics	Jun	Lee	Konkuk University	Chang-wan Kim (Konkuk University)
PRESM2022-A412	Special session - 2. High Precision Large Area Production Technology	On-Site	POSTER 3	22 July Friday, 11:00	Thermal-Structural Analysis of MLCC Manufacturing Process for Residual Stress	Jaewook	An	Konkuk University	Chang-wan Kim (Konkuk University)
PRESM2022-A048	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	Flash-enhanced Magneto-mechano-triboelectric Energy Harvester for Self-powered Optogenetic Brain Neuromodulation System	Yeon Uk	Kim	Kumoh National Institute of Technology	Jung Hwan Park (Kumoh National Institute of Technology)
PRESM2022-A049	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	Transversally Extended Plasmonic Laser Nanowelding of Copper Nanoparticles for Flexible Touch Screen Panel	Yun Sik	Hwang	Kumoh National Institute of Technology	Jung Hwan Park (Kumoh National Institute of Technology)
PRESM2022-A050	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	Flashlight-induced Plasmonic Nanowelding of Silver Nanowires for Transparent Piezoelectric Energy Harvester	Jae Chan	Heo	Kumoh National Institute of Technology	Jung Hwan Park (Kumoh National Institute of Technology)
PRESM2022-A053	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	Stretchable Cu Electrode with High Conductivity Enabled by Millisecond Flashlight Irradiation	Yu Mi	Woo	Kumoh National Institute of Technology	Jung Hwan Park (Kumoh National Institute of Technology)
PRESM2022-A054	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	Flash-induced Plasmonic Cu Nanowelding for Flexible and Transparent Electronics	Ui Yeon	Nam	Kumoh National Institute of Technology	Jung Hwan Park (Kumoh National Institute of Technology)
PRESM2022-A214	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	Modeling and Simulation of Hybrid Annular Radial Magneto-Rheological Fluid Damper for Electric Vehicle	Olivier	Munyaneza	Kumoh National Institute of Technology	Jung Woo Sohn (Kumoh National Institute of Technology)
PRESM2022-A220	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	A Novel Active Cooling System with Shape Memory Alloy Based Thermostat for Internal Combustion Engine	Pacifique	Turabimana	Kumoh National Institute of Technology	Jung Woo Sohn (Kumoh National Institute of Technology)
PRESM2022-A338	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	DEM Using Analysis on the Correlation between the Shape of Toothbrush Bristle Bundles and the Amount of Wear of a Simplified Tooth Model on NCCLs(Non-Carious Cervical Lesions)	Seoungjun	Lee	Kumoh National Institute of Technology	Junyoung Park (Kumoh National Institute of Technology)
PRESM2022-A368	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	Characterization of Strain Sensitive Response of Laser Sintered Silver Nanoparticles	Hye-Su	Jo	Kumoh National Institute of Technology	Gil-Yong Lee (Kumoh National Institute of Technology)
PRESM2022-A369	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	Performance Evaluation of a Soft Gripper based on Shape Memory Alloy (SMA) Wire Embedded Woven Textile Soft Composite	Oybek	Tuyboyov	Kumoh National Institute of Technology	Gil-Yong Lee (Kumoh National Institute of Technology)
PRESM2022-A384	Special session - 3. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Online(MP4)		Online : 20-22 July, Whole 3days	DEM Analysis of Coverage Prediction by Change of Control Cage Hole Shape of Impeller-typed Shot Blaster	Hyeryeon	Seo	Kumoh National Institute of Technology	Junyoung Park (Kumoh National Institute of Technology)