



Poster Sessions



Wednesday, August 16, 2023

Nr.	Division	Title	Speaker	Affiliation
P1	BE	Student Dormitory Design based on the Historical Context (Topos) and Typology of the City - On the Piazza dei Ciompi	Soonkyo Jeong	RWTH Aachen
P3	BE	BLOCK.REFORM.BERLIN	Seungmin Choi	FH Potsdam
P5	BS	A Study of Segmentation Algorithm for Carotid Artery Stenosis based on Ultrasound Images	Kiwan Jeon	NIMS
P7	CM	Formability evaluation of new aluminum material for eco-friendly automobiles (Almag6) using DIC technique	Sangmin Lee	Kongju National Univ.
P9	CM	Mechanical properties of 3D Printed Basalt Continuous Fiber Composites	Junyeon Hwang	KIST
P11	CM/LH	Conducting Polymer Nanotube Field-Effect Transistor Platform for Ultra- Sensitive Cortisol Detection	Gyeong-Ji Kim	Sungkyunkwan Univ.
P13	CM/MA	Analysis of Mechanical Properties of FDM Recycled Carbon Fiber Composites via Annealing	WonSeok Seok	Kongju National Univ.
P15	EE	The Green-ol process	Byoung Koun Min	KIST
P17	EE	Analysis of Greenhouse Gas Reduction Effects from the Recycling and Reuse of Electric Vehicle Batteries	Seong-Rin Lim	Kangwon National Univ.
P19	EE/BE	Industrial Heritage in the Electric Energy Industry of Berlin	Sung-Yong Kim	TU Bergakademie Freiberg Univ.
P21	EE/CM	e-Chemical production by CO2 electrolysis	Hyung-Suk Oh	KIST
P23	EE/MO	Prediction of fuel oil consumption for marine diesel engine	Min-Ho Park	Korea maritime and ocean Univ.
P25	EI	Optimization of Gate-Head-Top/Bottom Lengths of AlGaN/GaN High-Electron-Mobility Transistor with Gate-Recessed Structure toward High Power Operation: A Simulation Study	Woo-Seok Kang	Dongguk Univ.
P27	EI/CM	Development of organic interfacial chemistry for highly stable immobilization on the graphene transistor	Sung Eun Seo	KRIBB
P29	LH	Enzymatic degradation kinetics of protein microgels within 3D printing-based microfluidic devices	Baeckkyoung Sung	KIST Europe
P31	LH	Shikimate metabolites from Forsythia koreana flowers (Oleaceae) and their functionality as pharmacological agents	Jin Woo Jeang	Kyung Hee Univ.
P33	LH	Screening monoclonal antibodies to recognize pathogenic microorganisms	Jieun Jang	KRIBB
P35	LH	Evaluation of safety and effectiveness of medical information-based diabetes management service	Eunyoung Lee	Wonju Severance Christian Hospital
P37	LH/BS	Efficiency analysis of cooling methods to increase the thermal comfort of level-C protective clothing	Soyoung Park	Chungnam National Univ.
P39	LH/EI	100mm clear aperture MPI system based on permanent magnet array FFL with FMMD technology	Jae-Chan Jeong	ETRI
P41	LH/EI	A Study on Various Oversampling Methods for Voice Pathology Detection Using the Pathological Database of Eulji Medical Center	Ji-Yeoun Lee	Eulji Univ.
P43	MA	Development of Micro-scale Fatigue Test System for High-cycle Fatigue	Georak Park	Seoul National University of Science and Technology.
P45	MA	Development of pipe leak detection robot	Minhyung Lee	Gachon Univ.
P47	MA	Analysis of cooling performance according to the thickness of the pintle outer wall	Hwanil Huh	Chungnam National Univ.
P49	MA	Analysis of flow change before and after transition of ED nozzle	Hwanil Huh	Chungnam National Univ.
P51	MA	Analysis of the Structural Effect of Aerodynamic Loads on the ED Nozzle Pintle	Hwanil Huh	Chungnam National Univ.
P53	MA	Preliminary Design of an Electric Pump-Fed Cycle for a Methane Upper Stage Engine based on a 1-D Simulation Analysis	Hwanil Huh	Chungnam National Univ.
P55	MA	Construction of a Bipropellant Water Flow Test Apparatus Applied with an Electric Pump-fed Cycle	Hwanil Huh	Chungnam National Univ.
P57	MA	Development of Vacuum Facility for evaluating Battery Discharge Characteristics in High Altitude Environmets	Hwanil Huh	Chungnam National Univ.
P59	MA	Modelling analysis of ground contact improvement of 6-wheel autonomous delivery robots with bogie mechanism	Jung Mee Choi	Taltech
P61	MA	Aircraft Design for Minimal Contrail Impact	Minhyeon Jin	Univ. of Cambridge
P63	MA	Phase Change Characteristics of Cyclopentane Droplets at near critical conditions	Min Son	Universität der Bundeswehr München
P65	MO/EE	Quantitative Risk Assessment for Hydrogen bunkering safety zone/CMDC 2: Zero-Emission Multi-Fuel Station (ZEMFS)	Insik Hwang	Univ. of Strathclyde

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Nr.	Division	Title	Speaker	Affiliation
P2	BS	Heterogeneous III-V Nanowire Quantum Emitters on Silicon Photonic Circuits	Hyowon Jeong	TU Munich
P4	BS/CM	Ultrasensitive chemical nerve agent sensors	Seon Joo Park	KRIBB
P6	BS/MA	RoF-based indoor distributed antenna system (DAS)	Joonyoung Kim	IMEC
P8	CM	Strategies for developing damage-tolerant microstructures of DP Steel	Gyeongwan Jo	RWTH Aachen
P10	CM	Mechanical Properties of Multi-Layer Aluminum Sheets Processed by Cold Roll Bonding Process	Seong-Hee Lee	Mokpo National Univ.
P12	CM	Development of Exo-Suit Based on Textile Materials for Manual Lifting	Namyim Kim	Gongju National Univ.
P14	CM	Machine Learning Driven Molecular Dynamics Simulation of the M1 Selective Oxidation Catalysts	Kyeonghyeon Nam	FHI-MPG
P16	CM	Transition from the Wenzel to Cassie-Baxter state by SH nanoparticles leading to a robust superhydrophobic surface with damage/contamination recovery	Gi Byoung Hwang	Univ. College London
P18	CM/EI	Development of a food freshness detection sensor using metal oxide gas sensors	Hyeunseok Choi	Korea Institute of Industrial Technology
P20	CM/LH	Spatially Organized Photosynthetic Living Materials	Jeong-Joo Oh	Delft Univ. of Technology
P22	EE	Regulatory framework of the new EC definition of 'nanomaterial'	Jayoung Chae	KIST Europe
P24	EE/CM	Lithiation Balance between Silicon and Graphite in Li-ion Batteries: How Does the Balance Impact Cell Performance?	Chuljung Kim	RWTH Aachen
P26	EE/CM	Numerical validation of an electrostatic aerosol sampler for fine airborne particles based on a 2D axisymmetric model toward environmental monitoring	Chang-Ho Han	KIST Europe
P28	EE/LH	Long-term cultivation of Clostridium ljungdahlii on iron	Chaeho Im	Chalmers Univ. of Technology
P30	EI	Toward an international agreement on responsible AI in military application: state of the art	Hyong Sil Cho	SiLnD (KOSEANL)
P32	EI	Activity-driven service design applied with vision sensor-based unconstrained platform	Eok Kim	TU Korea
P34	EI	Radar-less Joint Communications and 3D Object Imaging via Voxlated Bilinear Inference	Hyeon Seok Rou	Constructor Univ. (previously Jacobs Univ. Bremen)
P36	EI/MA	AgriTech in Korea and Deep Learning-based AI for Ginseng Farming Robots	Hyeunseok Choi	Korea Institute of Industrial Technology
P38	LH	Energy-depriving Strategy to Capture Intracellular Glucose in Cancer Cells	Do Hyung Kwon	KRIBB
P40	LH	Interaction between vitamin E intake and a COMT gene variant on colorectal cancer risk: a case-control study	Shinyoung Jun	National Cancer Center Graduate School of Cancer Science and Policy
P42	LH/BS	Medical Walking Habit Game for the Treatment of Depression	Dongmin Moon	Inje Univ.
P44	LH/EI	Digital therapeutic game helps morbidly obese people start losing weight "HELPING FATTY"	Binwon Song	Dongseo Univ.
P46	LH/EI	A pronunciation correction medical game for treating early childhood articulation disorder	Muchang Bok	Chungbuk National Univ.
P48	LH/EI	Cognitive stimulation training medical game to delay the progression of dementia	Kangsik Cho	Chungbuk National Univ.
P50	LH/BS	Mobile application that promote outdoor activities to prevent and treat depression	Ju Hyun Lee	Wonkwang Univ.
P52	LH/BS	OCD Cognitive Therapy Game Using ERP(Exposure and Response Prevention)	Juhyeon Lee	Chungbuk National Univ.
P54	LH/EE	3D in vitro-based Alternative Approaches for Ecotoxicological Assessment	Chang Gyun Park	KIST Europe
P56	LH/EI	Digital therapeutics for Children with ADHD	Jeonghwan Kim	Dongseo Univ.
P58	MO	Dynamic LCA toward net-zero shipping	Chybyung Park	Univ. of Strathclyde
P60	MO/EE	NH3CRAFT project: Advancing Ammonia as a Sustainable and Safe Fuel for Waterborne Transport	Hayoung Jang	Univ. of Strathclyde
P62	LH/BS	Personalized intelligent game for preventing and improving obesity based on big data	Jiwoong Choi	Dongseo Univ.