

Date/ Time	September 6 (Sunday)		
14:00-15:00	Registration		
Room	Grand Ballroom C	207	206
Session	Environment (online)	Environment (online)	Environment (offline)
Chair	Sung Jun BAE (Konkuk University, Korea)	Jechan LEE (Ajou University, Korea)	TBA
15:00-15:15	OREN-124 / N6KEN-01 Preparation of Aromatic Compounds by Catalytic Hydrogenation of Lignin in Biphasic System Shicheng ZHANG (Fudan University, China)	OREN-303 / N6KEN-02 Microwave Vacuum Pyrolysis Conversion of Biomass Waste into Cleaner Biofuel, Bioplastic Feedstock and Value-added Carbon Su Shiung LAM (Universiti Malaysia Terengganu, Malaysia)	OREN-180 Graphene Quantum Dots Decorated BiS Nano-flowers for Improved Photoelectrocatalytic Water Treatment Aima Sameen ANJUM (Hanyang University, Korea)
15:15-15:30			OREN-183 Catalytic Pyrolysis of Fishing Net Waste using a CO ₂ as a Reaction Medium Dongho CHOI (Sejong University, Korea)
15:30-15:45	/ N6KEN-03 The Role of Renewable Energy in Global Transformation for a Sustainable Energy Future Keat Teong LEE (Universiti Sains Malaysia, Malaysia)	OREN-323 / N6KEN-04 The 2019 Report of The Lancet Countdown on Health and Climate Change: Ensuring that the Health of a Child Born Today is not Defined by a Changing Climate Meisam TABATABAEI (Universiti Teknologi MARA (UiTM), Malaysia)	OREN-187 CO ₂ -Cofeeding Pyrolysis of Pine Sawdust with Utilization of Steel Slag as a Catalyst Sangyoon LEE (Sejong University, Korea)
15:45-16:00			OREN-209 Relation Formula(R2) between Energy Efficiency Method(R1) and GHG Mitigation at Korean MSW to Energy Facility. Hyeok Young KWON (Seoul National University, Korea)
16:00-16:15	OREN-227 Aerosol Chemical Composition Modelling with WRF-Chem across Pearl River Delta: Comparability with Multiple Observational Datasets Qiao ZHU (Peking University Shenzhen Graduate School, China, Emory University, USA)	OREN-204 Characterization and Biogas Production Potentials of Aqueous Phase Produced from Hydrothermal Carbonization of Biomass - Major Components and their Binary Mixtures Muhammad USMAN (Fudan University, China)	OREN-019 Estimation of Ammonia Emission During Growing Seasons of Perilla in Plastic House Sae-Nun SONG (National Institute of Agricultural Sciences, Korea)
16:15-16:35	Break (20 min)		
Room	Grand Ballroom C	207	206
Session	Environment (online)	Bioresources (online)	Environment (offline)
Chair	Yuhoon HWANG (Seoul National University of Science and Technology, Korea)	Seunghyun WEON (Korea University, Korea)	TBA
16:35-16:50	OREN-194 / N6KEN-05 Oil Field Contamination and Remediation in Mongolia Buyan CHULUUN (National University of Mongolia, Mongolia)	ORBR-367 / N6KBR-06 Recent Developments of Biomass Catalytic Fast Pyrolysis: Strategies for the Optimization of Bio-oil Quality and Yield Haiping YANG (Huazhong University of Science and Technology, China)	OREN-098 Structural Variations and Generation of Binding Sites in Fe-loaded ZSM-5 and Silica under the Effect of UV-Irradiation and their Role in Enhanced BTEX Abatement from Gas Streams Nishesh Kumar GUPTA (University of Science and Technology (UST), Korea Institute of Civil Engineering and Building Technology (KICT), Korea)
16:50-17:05			OREN-082 Reversible and Irreversible Foulings Associated with Membrane Photobioreactor for Wastewater Treatment Jungmin KIM (Jeonbuk National University, Korea)
17:05-17:20	ORBR-374 / N6KBR-07 Mechanical, Durability and X-ray Micro-computed Tomography Investigation of Biochar-admixed Cement-mortars Ajit Kumar SARMAH (The University of Auckland, New Zealand)	ORBR-304 / N6KBR-08 Effective Dispersion of MgO Nanostructure on Biochar Support for Glucose Isomerization Daniel C.W. TSANG (The Hong Kong Polytechnic University, Hong Kong, China)	OREN-229 Characterization of Submicron Aerosols over the Yellow Sea Measured Onboard the Gisang 1 Research Vessel in Spring 2018 and 2019 Minsu PARK (Yonsei University, Korea)
17:20-17:35			OREN-178 Evaluating the Role of Ballast Surface Charge for Flocculation in Ballasted Flocculation Muhammad QASIM (Hanyang University, Korea)
17:35-17:50	OREN-164 Community-Engaged Assessment of Soil Heavy Metal and Metalloid Contamination in Atlanta Eri SAIKAWA (Emory University, USA)	ORBR-087 Investigate the Effect of GAC on Anaerobic Digestion of Waste Water from Hydrothermal Liquefaction of Biomass Muhammad USMAN (Fudan University, China)	OREN-057 Impact of Land Use/Land Cover on the Groundwater Quality at Agricultural Region of South Korea MoonSu KIM (National Institute of Environmental Research, Korea)

Date/Time	September 7 (Monday)			
8:30-9:00	Registration			
9:00-9:30	(Room: Grand Ballroom C) Opening Ceremony Chair: Yong-Saek UK (Yonsei University, Korea) - Plenary Lecture 1 - (Room: Grand Ballroom C)			
9:30-10:10	[F7PL-1] Advanced Interface between Material Engineering and Air Quality Control Wooyul KIM (Sookmyung University, Korea)			
10:10-10:30	Break (20 min)			
Room	Grand Ballroom C	207	206	205
Session	Environment (online+offline)	Bioresources (online+offline)	Materials Technology / Energy (offline)	Environment (offline)
Chair	Kiiae BAEK (Jeonbuk National University, Korea)	Young-Kwon PARK (The University of Seoul, Korea)	Suk Soen CHOI (Semyung University, Korea)	Wooyul KIM (Sookmyung Women's University, Korea)
10:30-10:45	/N7KEN-09 Can Biochar be a Solution to Remediate Contaminated Paddy Soils? Jörg RINHLER (University of Wuppertal, Germany)	/N7KBR-10 Aqueous Wastewater Treatment of Organic Pollutants by Activated Carbon Y. Wang (Chinese Academy of Sciences, China)	ORMT-274 Evaluation of Thermal Performance of PCM Based Electrically Conductive Heat Storage Concrete using Biochar Young Uk KIM (Yonsei University, Korea)	OREN-309 Biofouling Mitigation by Modified Polypropylene Feed Spacer using Polydopamine-vanillin-Chitosan PBAC (Hanyang University, Korea)
10:45-11:00			ORMT-336 Utilization of Oxidized Polyethylene Glycol and Peroxymonosulfate Do Gun KIM (Kyung Hee University, Korea)	OREN-322 Designing Reactor Microbiome to Optimize Caproate Productivity: Application of Design-Build-Test-Learn Framework Byung-Chul KIM (Seoul National University, Korea)
11:00-11:15	OREN-024 /N7KEN-11 Fate of (E)- and (Z)-Endrin in Water and Secondary Treated Wastewater under Sunlight Fakhri KHAM (University of Nevada, USA)	ORBR-291 Efficient Production of 2-methyltetrahydrofuran and 1,4-pentanediol from Biomass-derived Levulinic Acid Shinje LEE (Kyung Hee University, Korea)	ORMT-337 Enhanced Acetaminophen Degradation by Fe and N Co-doped Multi-walled Carbon Nanotubes Do Gun KIM (Kyung Hee University, Korea)	OREN-342 Colloidal Activated Carbon as Highly Efficient Bifunctional Catalyst: Implications in Activation of Persulfate for Phenol Degradation Ardie SEPTIAN (Kyungpook National University, Korea)
11:15-11:30		ORBR-311 The Role of Biochar in Alleviating Soil Drought Stress in Urban Roadside Greenery You Jin KIM (Kyung Hee University, Korea)	ORMT-220 Exceptionally Porous g-C ₃ N ₄ Nanosheets for Efficient H ₂ O ₂ Production via Photocatalytic Oxygen Reduction Reaction Hossain FATHIHOGHADJIAN (University of Ulsan, Korea)	OREN-346 Implication of Microbial Community to the Overall Performance of Tree-box Filter Treating Parking Lot Runoff Franz Kevin GERONIMO (Kongju National University, Korea)
11:30-11:45	OREN-382 Responses of Fine Particulate Matter and Ozone to Local Emission Reductions in the Sichuan Basin, Southwestern China Xue QIAO (Sichuan University, China)	ORBR-107 Biomass Waste Valorization to Generate Modified Biochar to Recover Phosphorus from Animal Manure Wastewater Tao ZHANG (China Agricultural University, China)	OREG-238 W Doped o-Fe ₂ O ₃ Heterojunction with H ₂ O ₂ Nanosheet for Improving Photoelectrochemical Performance Zohreh MASOUMI (University of Ulsan, Korea)	OREN-348 Understanding the Difference in Performance between High and Low Infiltration Systems for Urban Stormwater Runoff Management Hee B. GUEOK (Hansoo University, Korea)
11:45-12:00	OREN-069 Convergence of Submerged Membrane Filtration and Cold Plasma for Enhanced Livestock Excreta Treatment Hyomin Ah (Jeonbuk National University, Korea)	ORBR-195 Magnetic Ball-milled Fe@Biochar as Persulfate Activator for Degradation of Tetracycline Jingchun TANG (Nankai University, China)		OREN-236 Synergistic Collaboration of Graphitic Carbon Nitride With an Insulator for Enhanced Visible-light Photocatalytic Activity Heeul SOUMCHANG (University of Ulsan, Korea)
12:00-13:30	Lunch			
13:30-14:20	Poster Session 1			
14:20-15:00	Chair: Sang Soo LEE (Yonsei University, Korea) - Plenary Lecture 2 - (Room: Grand Ballroom C) [F7PL-2] Role of Waste to Energy (WTE) in Waste Management with Reviewing Korean Practices and Recent Activities Yong-Chul SEOK (Yonsei University, Korea)			
15:00-15:20	Break (20 min)			
Room	Grand Ballroom C	207	206	205
Session	Bioresources (online+offline)	Energy (online+offline)	Environment (offline)	Materials Technology (offline)
Chair	Seoktae KANG (Korea Advanced Institute of Science and Technology (KAIST), Korea)	Sumin KIM (Yonsei University, Korea)	Jungho JAE (Pusan National University, Korea)	Kiiae KIM (Korea Polar Research Institute (KOPRI), Korea)
15:20-15:35	ORBR-301 /N7KBR-12 Responses of Plant and Soil to Iron-Modified Biochar in a Paddy Soil Contaminated with Heavy Metals Haihong WANG (Foshan University, China)	OREG-133 /N7KEG-13 Advances in Biofuel Production from Microbial Biomass Huiyan CHEN (National Cheng Kung University, Taiwan)	OREN-070 Effect of Residual Antibiotics on Biodegradability of Microalgae Treating Livestock Excreta Sangjun JEONG (Jeonbuk National University, Korea)	ORMT-099 Robust Photocatalytic Degradation of Organic Pollutants by HfO ₂ Nanoparticles Nishesh Kumar GUPTA (University of Science and Technology (UST), Korea Institute of Civil Engineering and Building Technology (KICT), Korea)
15:35-15:50			OREN-256 Citrus Pectin-Calcium Hydroxide Technology Jae Hee LEE (GAIA Corporation, Korea)	ORMT-108 A New 3D Hierarchical Bi ₂ O ₃ /Cu ₂ O/Bi ₂ O ₃ Heterojunction and Its Photocatalytic Degradation Performance over Rhodamine-B and Bisphenol-A Byeol To (Ulsan Dongguk University, Korea)
15:50-16:05	ORBR-206 /N7KBR-14 Utilization of Biochar in Catalytic Applications Naomi B. KLINGHOFFER (Western University, Canada)	OREG-193 Biodegradation of Waste Cooking Oil by via Non-Catalytic Transesterification using Swine Manure Biochar Myoung KIM (Sejong University, Korea)	OREN-284 Occurrence of Microplastics in South Korea: A Review Kimberly Ann YANG (Kongju National University, Korea)	ORMT-125 Tailoring Heteroatomic Architecture on IrO ₂ Based Dimensionally Stable Anodes for Environmental Applications Evarist RAHMANN (Korea Institute of Science and Technology, Korea)
16:05-16:20		OREG-362 Effects of Pyrolysis Syngas Injection onto Methane Yield from Anaerobic Digestion Process Jongkeun LEE (Konkuk University, Korea)	OREN-284 The Occurrence of Pharmaceuticals and Personal Care Products in Different Environmental Media: A Review Jaeh JEE, DG. REYES (Kongju National University, Korea)	ORMT-137 Gradient N-doped Structure of Carbon Quantum Dots as Metal-free Photo-electrocatalyst for Improved Charge Channeling and Associated Water Treatment Muntaz ALI (Hanyang University, Korea)
16:20-16:35	ORBR-330 Process Development for Large-scale Biochar Production by Integration of Pyrolysis and Large Combustion Plant Saunghan YU (Sungkyunkwan University, Korea)	OREG-068 Production of Hydrogen and Carbon Black by Photocatalytic Decomposition of Benzene Using Liquid Plasma Kyong-Hwan CHUNG (Sunchon National University, Korea)	OREN-292 Melting Slag Formation for the Recycling of Automobile Shredder Residues He-Na JANG (Yonsei University, Korea)	ORMT-035 Tailored Magnetic TiO ₂ Heterostructures Using a Green One-step Hydrothermal Synthesis Process and Their Applications in Radionuclide Sequestration Adel SHAHJAD (Kyungpook National University, Korea)
16:35-16:55	Break (20 min)			
Room	Grand Ballroom C	207	206	205
Session	Energy (online+offline)	Bioresources (online+offline)	Environment (offline)	Environment (offline)
Chair	Hyun Woo KIM (Jeonbuk National University, Korea)	Youngchul KIM (Andong National University, Korea)	Chang-Gu LEE (Aju University, Korea)	Sanghyun JEONG (Pusan National University, Korea)
16:55-17:10	OREG-208 /N7KEG-15 Assessing Global Water Sustainability in the Recovery of Unconventional Oil and Gas Resources Daniel S. ALESSI (University of Alberta, Canada)	ORBR-369 /N7KBR-16 Mineralization and Nutrient Releasing of Biochar Compound Fertilizer in a Highly Weathering Soil Shi-Hao JIEN (National Pingtung University of Science and Technology, Taiwan)	OREN-154 Experimental Parametric Studies and Effect of Water Matrix on Photocatalytic Degradation of Organic Wastewater using Fe-TiO ₂ Nanotubes: Towards Commercial Application Rida FATMA (Hanyang University, Korea)	OREN-094 Visible Light Photocatalytic Degradation of Thiazinamide with Porous Organic Polymers (POP): Effect of Reaction Conditions Alireza RAMSABARI (Ghent University Global Campus, Korea)
17:10-17:25			OREN-157 Sustainable Biopolymers Production Using Red Algae Derived Volatile Fatty Acids: Closed Loop Approach Harsh Kumar AWASTHI (Yonsei University, Korea)	OREN-151 Removal of Nitrate from Groundwater through Reduction and Adsorption Using Modified Biochar with Zero-valent Iron Eun-yeong HAN (Jeonbuk National University, Korea)
17:25-17:40	/N7KEG-17 Design of Bi-structured Heterogeneous Catalysts for Environmental Catalytic Applications Kun-Yi (Andrew) LIN (National Chung-Hsing University, Taiwan)	ORBR-037 Life Cycle Greenhouse Gas, Energy and Economic Analysis of an Advanced Sulfite-based Oxidizing Aqueous (OSOA) Process for Wastewater Treatment with in-situ Sludge Reduction Di WU (Hong Kong University of Science and Technology, Hong Kong, China)	OREN-186 The Enhanced Pyrolysis of Crude Oil Sludge Using CO ₂ as Reactive Gas Medium Jung-Hun KIM (Sejong University, Korea)	OREN-152 Application of Cu ₂ S Impregnated Porous Carbon Material Fabricated from Pyrolysis of Lignin-Co Composite Ghoon KWON (Sejong University, Korea)
17:40-17:55		ORBR-086 Effect of Forced Ventilation Using a Three-Layer Pipeline during Sewage Sludge High Pile Composting Guohu ZHENG (Institute of Geographic Sciences and Natural Resources Research, University of Chinese Academy of Sciences, China)	OREN-173 Electrochemical Oxidation of Contaminants using Graphite Electrode in Flow-through System Jong-Gook KIM (Jeonbuk National University, Korea)	OREN-176 The Effects of Spartina Anglica Invasion on Depth Profiles of Methane Production and Soil Microbial Community Jinyun KIM (Yonsei University, Korea)
17:55-18:10	OREG-240 Constructing Highly Porous Graphitic Carbon Nitride for Efficient H ₂ O ₂ Production via Photocatalytic Oxygen Reduction Reaction Reahneer RAZAVI (University of Ulsan, Korea)	ORBR-352 Cocoa Pod Husk Waste as a Potential Bioresource for Preparation of Value-added Biomaterials. An Approach to Pectin Extraction Bryan M. CORDOVA (National University of Engineering, Peru)	OREN-174 Simultaneous TOC-TN-TP Oxidation using Base Activation and Improvement of Oxidation Efficiency Dong-Han SHIN (Jeonbuk National University, Korea)	OREN-150 Treatment of Cadmium-contaminated Soil through Extraction-Selective Adsorption Process Taesun KIM (Jeonbuk National University, Korea)

Date/Time	September 8 (Tuesday)			
8:30-9:00	Registration			
9:00-9:40	Chair: Eihann E. KWON (Sejong University, Korea) - Plenary Lecture 3 - [Room: Grand Ballroom C] [NBPL-3] New Dimensions of Porous Coordination Polymers/Metal-Organic Frameworks Susumu KITAGAWA (Kyoto University, Japan)			(Room: Grand Ballroom C)
9:40-10:00	Break (20 min)			
Room	Grand Ballroom C	207	206	205
Session	Environment (online+offline)	Materials Technology (online+offline)	Bioreources (offline)	Special Session 1
Chair	Sang-Hyoun KIM (Yonsei University, Korea)	Wangyun WON (Kyung Hee University, Korea)	Jae Won SHIM (Korea University, Korea)	Eui-chan JEON, Hyun-Han KWON (Sejong University, Korea)
10:00-10:15	OREN-034 / NBKEN-18 Microalgae-based Wastewater Treatment and Resource Recovery - A Synergistic Approach Anni BHATNAGAR (University of Eastern Finland, Finland)	ORMT-175 / NBKMT-19 Conversion of Biochar to Solid Acids with Sulfonate Groups for Spilramycin Hydrolysis: Insights into the Sulfonation Reaction and the Aromatic Properties of the Feedstock Xiaomin DOU (Beijing Forestry University, China)	ORBR-171 Accelerated Aging of Biochar for Assessment of Biochar Stability Hye-Bin KIM (Jeonbuk National University, Korea)	
10:15-10:30			ORBR-184 Anaerobic Digestion of Food Waste and Sewage Sludge for Biogas Production Yun-Hui JEON (Kyungpook National University, Korea)	
10:30-10:45	OREN-228 / NBKEN-20 Geochemical Distribution of Gallium, Indium, and Thallium and Their Availability in Highly Weathered Soils Zeng-Yi HSU (National Taiwan University, Taiwan)	/ NBKMT-21 Santoleo KUMAR (Guru Jambheshwar University of Science & Technology, India)	ORBR-185 Improved Growth of <i>Chlorella Vulgaris</i> using Silver Nanoparticles Solution as Light Filter Devices Chang-Hyun JEON (Kyungpook National University, Korea)	
10:45-11:00			ORBR-230 Synthesis of Diesel Range Fuel Precursor from Furfuryl Alcohol over Fibrous γ - Al_2O_3 Sphere Supported Ni_2O_3 Catalyst Wahne N. GEBRESILLASE (Myongji University, Korea)	
11:00-11:15	OREN-370 / NBKEN-22 A Review of the Health Impacts of WTE Facilities Marco J. CASTALDI (The City College of New York, City University of New York, USA)	ORMT-296 Engineering the Photocatalytic Behaviour of g-C ₃ N ₄ -based Metal-free Materials for Degradation of a Representative Antibiotic Jun LIU (Institute of Semiconductors, Chinese Academy of Sciences, China)	ORBR-232 Bifunctional Catalysis of Cobalt-Nickel Phosphides for the Solvent-Free Hydrogenation of Biomass-Derived Levulinic Acid Rebecca G. PALCIBURDA (Myongji University, Korea)	
11:15-11:30		ORMT-254 Zinc-based Metal-Organic Frameworks as Base Catalysts: Tuning Catalytic Properties via Variation of Basicity and Crystal Size Maria N. TIMOFEEVA (Institute of Catalysis SB RAS, Russia)	ORBR-247 Food Waste and Its Derivatives as Alternative Carbon Source for Denitrification of Steel Processing Wastewater: Process Performance and Microbial Community Dynamics Joonyeob LEE (Pukyong National University, Korea)	
11:30-11:45	OREN-121 A Facile and Novel Synthesis of Fe ₃ O ₄ /Mn ₂ O ₃ Nanocomposite for a Fast Degradation of Organic Pollutants Yasaman GHAFARI (University of Science and Technology (UST), Korea Institute of Civil Engineering and Building Technology (KICT), Korea)	ORMT-048 Sulfate Radical-induced Degradation of Naproxen with Nanosized Magnetic CoFe ₂ O ₄ /MnO ₂ as a Heterogeneous Catalyst of Persulfate Aqsa FAYYAZ (Kyungpook National University, Korea)	ORBR-261 Understanding Surface Functionality of Mesoporous Biochar in Phase Change Materials Infiltration through Stability and Energy Storage Capacity Dimitris G. ATIMATOU (Yonsei University, Korea)	
11:45-12:00	OREN-139 Steady Acclimation of Anaerobic Microbes Degrading High Protein-lipid Content Substrate: Fish Waste Md Abu Jahid JANNAH (Pohang University of Science and Technology, Korea)	OREN-127 Co-oxidation of Coffee-ground with Waste Polystyrene Foam for Upgrading Coffee-ground Derived Pyrolysis Oil Quynh VAN NGUYEN (University of Science and Technology, Korea)	ORBR-046 Carbon Catalysts Supported on Biochar Engineered in Different Pyrolytic Atmospheres for Converting Furan into Platform Chemicals Hsiang-Hyun LEE (Ajou University, Korea)	
12:10-13:30	Lunch			
13:30-14:20	Poster Session 2			
14:20-15:00	Chair: Hocheol SONG (Sejong University, Korea) - Plenary Lecture 4 - [Room: Grand Ballroom C] [NBPL-4] Emergent Materials for Energy, Environment and Health Tejraj M. AMNABHAVI (Rajiv Gandhi Health Science University, India)			(Room: Grand Ballroom C)
15:00-15:20	Break (20 min)			
Room	Grand Ballroom C	207	206	205
Session	Environment (online+offline)	Bioreources (online+offline)	Environment (offline)	Special Session 2-Air Pollution, Health and Urban Climate
15:20-15:35	Jeonghun KIM (Kookmin University, Korea)	Changsook HAN (Inha University, Korea)	Man Jae KWON (Korea University, Korea)	Jinkyu HONG (Yonsei University, Korea)
15:35-15:50	OREN-368 / NBKEN-23 Effect of Microplastics on the Removal of Pollutants from Aquagous Medium by using Carbon Materials Wei ZHANG (Zhengzhou University, China)	ORBR-350 / NBKBR-24 Metal-Organic Frameworks (MOF) for Electrochemical and Optical Sensing of Bacteria Akash DEEP (CSIR-Central Scientific Instruments Organisation, India)	OREN-355 Occurrence and Transport of d(2'-phytyl) Phosphate (dPP) in the Drinking Water Treatment Plants from South Korea Youngjun CHUNG (Korea Advanced Institute of Science and Technology (KAIST), Korea)	
15:50-16:05	/ NBKEN-25 Development of Modified Biochar on the Eco-friendly Process for Food Waste and Livestock Manure Composting Balsubramani RAVINDRAN (Kyungju University, Korea)	ORBR-023 Development of Modified Biochar on the Eco-friendly Process for Food Waste and Livestock Manure Composting Balsubramani RAVINDRAN (Kyungju University, Korea)	OREN-357 Slow-release Fe ³⁺ and Persulfate Catalyzed-assisted Oxidation of Acenaphthene: Effect of Anions and Hydroxylamine Ardie SEPTIAN (Kyungpook National University, Korea)	OREN-361 Novel Membrane-type Electrode for the Selective Reduction of Co ²⁺ from Ca ²⁺ -rich Concrete Decommissioning Wastewater Joonseung PARK (Korea Advanced Institute of Science and Technology (KAIST), Korea)
16:05-16:20		ORBR-359 Nitrogen and Phosphorus Removal and Recovery from Wastewater with Metal Impregnated Biochar Dong-jin KIM (Inha University, Korea)	OREN-363 Effect of Reducing Layer on the Rejection of Emerging Contaminants in the Forward Osmosis Process Dulsoo JANG (Korea Advanced Institute of Science and Technology (KAIST), Korea)	
16:20-16:35	OREN-379 Wastewater Treatment Plants as Sources of Microfibres and Microplastics to Environment: Detection and Treatment Muhammad Tariq KHAN (The Education University of Hong Kong, Hong Kong, China)	ORBR-093 Hydrochar Production from Waste Spentish SOROUGH (Ghent University Global Campus, Korea)	OREN-043 Synergistic Effect of CO ₂ and Pt catalyst on Thermal Decomposition of Food Waste Soosun KIM, (Ajou University, Korea)	
16:35-16:55	Break (20 min)			
Room	Grand Ballroom C	207	206	
Session	Environment (online+offline)	Environment (online+offline)	Materials Technology (offline)	
Chair	TBA	TBA	Yong-Mook KANG (Korea University, Korea)	
16:55-17:10	OREN-327 / NBKEN-26 Challenges in Translational Research from Concepts of Proof to Innovative Environmental Technologies: System Complexity, Critical Barriers, and Adaptive Research Methodology Lingling HUANG (The University of Queensland, Australia)	OREN-353 / NBKEN-27 Distributed Waste-to-Resource Development in Glasgow Svenjoo YOO (University of Glasgow, UK)	ORMT-231 Copper Segregated Nickel Foam and its Dichalcogenide for Chemical Assisted overall Water Splitting Besawit. Z. DESALEGN (Myongji University, Korea)	
17:10-17:25			ORMT-237 Biochar-based Phase-changing Eutectic Salts in Magnesium Oxide Fibers for Capture: Beyond the Capacity-Stability Trade-off Monica Louise T. TRIVIÑO (Myongji University, Korea)	
17:25-17:40	OREN-347 Adsorptive Removal of Ammonium and Sulfonamides Antibiotics from Livestock Burial Leachate using Low-grade Charcoal and Zeolite Jung-yoo JO (Dankook National University, Korea)	OREN-235 Synergistic Oxidation Pattern Induced by co-occurring Surface Ozone and PM2.5 Compound Pollutants during Summer-time in Eastern China Lian ZONG (Nanjing University of Information Science & Technology, China)	ORMT-235 Study of Adsorption Effect of NiO ₂ and WS ₂ Nanosheets on the W/O/W ₂ for Improving Photoelectrochemical Performance Heysam TAEBI (University of Ulsan, Korea)	
17:40-17:55	OREN-158 Sulfur Dioxide Gas Flares in Landfill and Conventional Agricultural Systems Eui SAKAWA (Emory University, USA)	OREN-172 Evaluation of Environmental Quality Sensors in the Monitoring of Real-Time PM _{2.5} Concentrations in Southeast United States Haoran CHENG (Emory University, USA)	ORMT-246 ZnO/CuO/Ag Nanoparticles with Multi-heterojunctions for Highly Efficient Photoelectrochemical Hydrogen Evolution Morteza KOLAEI (University of Ulsan, Korea)	
17:55-18:10	OREN-380 Emerging Endocrine Disrupting Chemicals: A Challenge to Children's Health in Hong Kong Ziyang LI (The Education University of Hong Kong, Hong Kong, China)	OREN-381 Removal of Microfibres and Microplastics in Sewage Treatment Works: Implications to Environmental Risk Yuguang WANG (The Education University of Hong Kong, Hong Kong, China)	ORMT-092 Reform Chemicals from Sugar: Experimental Study with MOF Catalysts Noor ALJAMMAL (Ghent University Global Campus, Korea)	