

**BEEM 2018 PROGRAM  
(ORAL PRESENTATION)**

Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
PL01	PL01	Diamond1	June 11 (Mon.)	75	09:10-10:25	Plenary Lecture 01	Daniel Tsang	-	Hong Kong Polytechnic University	Hong Kong, China	-
	PL01-1	Diamond1	June 11 (Mon.)	25	09:10-09:35	Meeting Needs and Challenge of China's Aquaculture Industry - Use of Food and Food Processing Waste	Ming-Hung Wong	Bioresources	The Education University of Hong Kong	Hong Kong, China	IF0046
	PL01-2	Diamond1	June 11 (Mon.)	25	09:35-10:00	PAHs and Other Contaminants in Rubber Granulate from Car Tires Used on Soccer Pitches	Jacob Boer	Environment	Vrije Universiteit	The Netherlands	IF0761
	PL01-3	Diamond1	June 11 (Mon.)	25	10:00-10:25	Global Status and Future Prospects of WTE	Marco Castaldi	Energy	City University of New York	USA	IF0725
PL02	PL02	Diamond1	June 11 (Mon.)	75	10:35-11:50	Plenary Lecture 02	Ming-Hung Wong	-	The Education University of Hong Kong	Hong Kong, China	-
	PL02-1	Diamond1	June 11 (Mon.)	25	10:35-11:00	Capture and Reductive Transformation of Halogenated Pesticides by an Activated Carbon-Based Electrolysis System for Treatment of Runoff	William Mitch	Environment	Stanford University	USA	IF0754
	PL02-2	Diamond1	June 11 (Mon.)	25	11:00-11:25	Fecal Sludge: Past Experiences and Current Approaches in Search of a Sustainable Future	Euiso Choi	Environment	Korea University	Korea	IF0083
	PL02-3	Diamond1	June 11 (Mon.)	25	11:25-11:50	Prenatal Exposure to DEHP Leads to Premature Reproductive Senescence in the Future Generations	Chemyong Ko	Environment	University of Illinois at Urbana-Champaign	USA	AF0619
PL03	PL03	Diamond1	June 12 (Tue.)	100	08:30-10:10	Plenary Lecture 03	Marco Castaldi	-	City University of New York	USA	-
	PL03-1	Diamond1	June 12 (Tue.)	25	08:30-08:55	The Publishing Landscape	Deirdre Dunne	-	Elsevier	The Netherlands	IF0612
	PL03-2	Diamond1	June 12 (Tue.)	25	08:55-09:20	Design of Surfaces for Enhanced or Diminished Removal of Microorganisms, Nanoparticles, and Other Colloids	Scott Bradford	Environment	USDA ARS	USA	IF0116
	PL03-3	Diamond1	June 12 (Tue.)	25	09:20-09:45	Viable means of sequestering Xe, Kr and I2 in metal organic frameworks	John Parise	Material Technology	Stony Brook University	USA	IF0982
	PL03-4	Diamond1	June 12 (Tue.)	25	09:45-10:10	Development of Low-Carbon Energy and Environment Technologies under the UNFCCC Technology Mechanism	Changmo Sung	Energy	Korea University, UNFCCC TEC	Korea	IK0778
PL04	PL04	Diamond1	June 12 (Tue.)	100	10:20-12:00	Plenary Lecture 04	Scott Bradford	-	USDA ARS	USA	-
	PL04-1	Diamond1	June 12 (Tue.)	25	10:20-10:45	The Future of Sustainable Bioenergy	Thomas Foust	Energy	National Renewable Energy Laboratory	USA	IF0911
	PL04-2	Diamond1	June 12 (Tue.)	25	10:45-11:10	New Waves in Anaerobic Digestion	Hang Sik Shin	Environment	KAIST	Korea	IK0131
	PL04-3	Diamond1	June 12 (Tue.)	25	11:10-11:35	New Material Membrane-based Water Desalination: H2O minus CO2	In Kim	Material Technology	Gwangju Institute of Science and Technology (GIST)	Korea	IK0152
	PL04-4	Diamond1	June 12 (Tue.)	25	11:35-12:00	Biomass to Biofuels: Production of Liquid Biofuels from Agro-Industrial Residues	Ashok Pandey	Bioresources	CSIR-National Institute for Interdisciplinary Science and Technology	India	IF0605
BEEM 2019 Promotion	-	Diamond1	June 12 (Tue.)	10	12:00-12:10	BEEM 2019 Promotion	Daniel Tsang	-	Hong Kong Polytechnic University	Hong Kong, China	-

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<b>BIO-01</b>	OP03	Emerald	June 10 (Sun.)	95	15:00-16:35	Bioresources-01	Hyun-Woo Kim	Bioresources	Chonbuk National University	Korea	-
	OP03-1	Emerald	June 10 (Sun.)	15	15:00-15:15	Preparation and application of highly porous biochar from pine wood for removal of antibiotics in water	Hyun Min Jang	Bioresources	Texas A&M AgriLife Research Center	USA	AF0385
	OP03-2	Emerald	June 10 (Sun.)	15	15:30-15:45	Advanced biochar (nano)composites for catalytic and environmental technologies	Kristyna Pospiskova	Bioresources	Palacky University Olomouc	Czech Republic	AF0327
	OP03-3	Emerald	June 10 (Sun.)	15	15:45-16:00	Selection of optimal additive in composting and its influence mechanism	Huanhuan Li	Bioresources	China Agricultural University	China	AF0349
	OP03-4	Emerald	June 10 (Sun.)	15	16:00-16:15	Holistic approach to biowaste management	Federico Varalta	Bioresources	Aalto University	Finland	AF0502
	OP03-5	Emerald	June 10 (Sun.)	15	16:15-16:30	Influence of trophic conditions and carbon sources on <i>Scenedesmus obliquus</i> growth, nutrient removal, and membrane filtration resistance	Wook Jin Choi	Bioresources	Korea Institute of Science and Technology	Korea	AK0793
	-	Emerald	June 10 (Sun.)	20	16:30-16:35	Discussion					
<b>BIO-02</b>	OP09	Emerald	June 10 (Sun.)	95	16:55-18:30	Bioresources-02	Tao Zhang	Bioresources	China Agricultural University	China	-
	OP09	Emerald	June 10 (Sun.)	95	16:55-18:30	Bioresources-02	Nabeel Niazi	Bioresources	University of Agriculture Faisalabad	Pakistan	-
	OP09-1	Emerald	June 10 (Sun.)	15	16:55-17:10	Screening and optimization of various pretreatments for the preparation of rice husk biomass feedstock for bioplastics production by <i>Ralstonia eutropha</i> and their characterization	Ganesh Saratale	Bioresources	Dongguk University	Korea	AK0230
	OP09-2	Emerald	June 10 (Sun.)	15	17:10-17:25	Microwave digestion-assisted HFO/biochar adsorption to recover phosphorus from swine manure	Tao Zhang	Bioresources	China Agricultural University	China	AF0204
	OP09-3	Emerald	June 10 (Sun.)	15	17:25-17:40	Multifunctional mesoporous poly(ionic liquid)s for the transformation of biomass platform compound 5-hydroxymethylfurfural	Qian Wang	Bioresources	Nanjing Tech University	China	AF0122
	OP09-4	Emerald	June 10 (Sun.)	15	17:40-17:55	Glycerol-based pretreatment of lignocellulosic biomass before succinic acid production	Mariusz Kuglarz	Bioresources	University of Bielsko-Biala	Poland	AF0568
	OP09-5	Emerald	June 10 (Sun.)	15	17:55-18:10	Enhancing Fertility Level of Degraded Acid Upland Soil Grown with Peanut and Corn Amended with Rice Husk Biochar, <i>Azospirillum</i> Spp. and Arbuscular Mycorrhizal Fungi	Marilou Sarong	Bioresources	Central Luzon State University	Philippines	AF0581
	-	Emerald	June 10 (Sun.)	20	18:10-18:30	Discussion					

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BIO-03	OP18	Crystal	June 11 (Mon.)	95	14:50-16:25	Bioresources-03	Daniel Tsang	Bioresources	Hong Kong Polytechnic University	Hong Kong, China	-
	OP18	Crystal	June 11 (Mon.)	95	14:50-16:25	Bioresources-03	Leesun Kim	Bioresources	Ulsan National Institute of Science and Technology (UNIST)	Korea	-
	OP18-1	Crystal	June 11 (Mon.)	20	14:50-15:10	Food Waste Valorization for Platform Chemical Production	Daniel Tsang	Bioresources	Hong Kong Polytechnic University	Hong Kong, China	IF0088
	OP18-2	Crystal	June 11 (Mon.)	15	15:10-15:25	Biofertilizer production from Tithonia diversifolia and poultry manure and nutrients bioavailability to zea mays	Olatunde Dahunsi	Bioresources	Landmark University	Nigeria	AF0552
	OP18-3	Crystal	June 11 (Mon.)	15	15:25-15:40	Biomethane yield of in-situ anaerobic sewage sludge with food waste leachate addition	Dongjin Lee	Bioresources	National Institute Environmental Research	Korea	AK0647
	OP18-4	Crystal	June 11 (Mon.)	15	15:40-15:55	Physical and Biological Characteristics of Particles Emitted by Wastewater Treatment Plant	Wan-Chien Lien	Bioresources	National Central University	Taiwan	AF0193
	-	Crystal	June 11 (Mon.)	30	15:55-16:25	Discussion					
BIO-04	OP21	Crystal	June 11 (Mon.)	95	16:45-18:20	Bioresources-04	Kunio Yoshikawa	Bioresources	Tokyo Institute of Technology	Japan	-
	OP21	Crystal	June 11 (Mon.)	95	16:45-18:20	Bioresources-04	Sungpyo Kim	Bioresources	Korea University	Korea	-
	OP21-1	Crystal	June 11 (Mon.)	20	16:45-17:05	Innovative Japanese Technologies for Waste-to-Green Product Conversion	Kunio Yoshikawa	Bioresources	Tokyo Institute of Technology	Japan	IF0638
	OP21-2	Crystal	June 11 (Mon.)	15	17:05-17:20	Environmental Impact Assessment for Waste Treatment Options using LCA	Sora Yi	Bioresources	Korea Environment Institute	Korea	AK0452
	OP21-3	Crystal	June 11 (Mon.)	15	17:20-17:35	Integrated life cycle assessment of improving saline-sodic soil with flue gas desulfurization gypsum	Jinman Wang	Bioresources	China University of Geosciences	China	AF0223
	OP21-4	Crystal	June 11 (Mon.)	15	17:35-17:50	Magnetically modified biological materials and their applications	Ivo Safarik	Bioresources	Biology Centre	Czech Republic	AF0244
	OP21-5	Crystal	June 11 (Mon.)	15	17:50-18:05	Adsorption of Nickel (II) ion by Palm oil sludge biochar prepared by pyrolysis: Equilibrium and Kinetics studies.	Ching Lam Goh	Bioresources	Tunku Abdul Rahman University College	Malaysia	AF0273
	OP21-6	Crystal	June 11 (Mon.)	15	18:05-18:20	Green solvents for catalytic conversion of bread waste to hydroxymethylfurfural	Iris Km Yu	Bioresources	Hong Kong Polytechnic University	Hong Kong, China	AF0282

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ENE-01	OP04	Topaz	June 10 (Sun.)	95	15:00-16:35	Energy-01 (Pyrolysis & Gasification Section)	Jan Filip	Energy	Palacky University, Olomouc	Czech Republic	-
	OP04-1	Topaz	June 10 (Sun.)	15	15:00-15:15	In-situ and ex-situ catalytic pyrolysis of lignin	Haewon Ryu	Energy	University of Seoul	Korea	AK0687
	OP04-2	Topaz	June 10 (Sun.)	15	15:15-15:30	Catalytic fast copyrolysis of biomass and wastes over mesoporous materials	Daejun Oh	Energy	University of Seoul	Korea	AK0669
	OP04-3	Topaz	June 10 (Sun.)	15	15:30-15:45	Co-pyrolysis of sewage sludge and its derived hydrochar blended with different-rank coals using TG-FTIR: Kinetics analysis using robust distributed activation energy model	Chao He	Energy	Sun Yat-sen University	China	AF0931
	OP04-4	Topaz	June 10 (Sun.)	15	15:45-16:00	Banana peel gasification: A parametric study and assessment of gasification performance	Edengrace Callueng	Energy	University of the Philippines Los Banos	Philippines	AF0231
	OP04-5	Topaz	June 10 (Sun.)	15	16:00-16:15	Development of a multi-stage purification system for syngas upgrading produced from waste gasification	Wei Ping Chan	Energy	Nanyang Technological University	Singapore	AF0288
	-	Topaz	June 10 (Sun.)	20	16:15-16:35	Discussion					
ENE-02	OP10	Topaz	June 10 (Sun.)	105	16:55-18:30	Energy-02 (Biogas Section)	Hana Kim	Energy	Sejong University	Korea	-
	OP10	Topaz	June 10 (Sun.)	105	16:55-18:30	Energy-02 (Biogas Section)	Yu Bon Man	Energy	The Education University of Hong Kong	Hong Kong, China	-
	OP10-1	Topaz	June 10 (Sun.)	15	16:55-17:10	Effect of durian peel preparation for biogas production	Supaporn Pongthornpruek	Energy	Uttaradit Rajabhat University	Thailand	AF0252
	OP10-2	Topaz	June 10 (Sun.)	15	17:10-17:25	How can metal nanoparticles enhance biogas production?	Jan Filip	Energy	Palacky University, Olomouc	Czech Republic	AF0471
	OP10-3	Topaz	June 10 (Sun.)	15	17:25-17:40	Energy Recovery using Soluble Biodegradable Organic Carbon in Wastewater Concentrated by Adsorption	Sangwon Yoon	Energy	Seoul National University	Korea	AK0149
	OP10-4	Topaz	June 10 (Sun.)	15	17:40-17:55	Optimization of food waste leachate addition as a co-substrate for treating pig manure using an anaerobic digestion	Jae-Min Choi	Energy	The University of Suwon	Korea	AK0584
	OP10-5	Topaz	June 10 (Sun.)	15	17:55-18:10	Investigating the effect of bio-stimulation and inhibition on biogas production in microbial electrolysis cell.	Sung-Gwan Park	Energy	Korea maritime and ocean university	Korea	AK0878
	OP10-6	Topaz	June 10 (Sun.)	15	18:10-18:25	Biogas generation from the anaerobic co-digestion of Pennisetum purpureum (Elephant grass) and poultry manure	Olatunde Dahunsi	Energy	Landmark University	Nigeria	AF0558
	OP10-7	Topaz	June 10 (Sun.)	15	18:25-18:40	Assessment of Different Waste to Energy Technologies for Municipal Solid Waste using P-graph	Yee Van Fan	Energy	Brno University of Technology	Czech Republic	AF0026

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ENE-03	OP23	Topaz	June 12 (Tue.)	95	13:20-14:55	Energy-03 (LCA, Real Case, Estimation Section)	Wonchul Cho	Energy	Korea Institute of Energy Research	Korea	-
	OP23	Topaz	June 12 (Tue.)	95	13:20-14:55	Energy-03 (LCA, Real Case, Estimation Section)	Shih-Hao Jien	Energy	National Pingtung University of Science and Technology	Taiwan	-
	OP23-1	Topaz	June 12 (Tue.)	15	13:20-13:35	Power to Gas for storing renewable energy and CO2: technical issues and research projects	Wonchul Cho	Energy	Korea Institute of Energy Research	Korea	AK0924
	OP23-2	Topaz	June 12 (Tue.)	15	13:35-13:50	Conversion of Low Grade Heat from Industrial Aerobic Bioprocesses into 4th Generation District Heat: A Case Study	Josipa Lisicar	Energy	Technische Hochschule Koeln	Germany	AF0005
	OP23-3	Topaz	June 12 (Tue.)	15	13:50-14:05	Powering Electric Cars Through Electricity Generated from Organic Food Waste in India: A Screening Level Life Cycle Assessment Study	Kavitha Shanmugam	Energy	Umea University	Sweden	AF0347
	OP23-4	Topaz	June 12 (Tue.)	15	14:05-14:20	Renewable Energy Generation Potential from Biomass Resources in Guilan Province of Iran	Amin Nikkhah Kolachahi	Energy	Ghent University Global Campus	Korea	AK0902
	OP23-5	Topaz	June 12 (Tue.)	15	14:20-14:35	Resource Recovery Potentials by Landfill Mining and Reclamation in Korea	Sora Yi	Energy	Korea Environment Institute	Korea	IK0126
	OP23-6	Topaz	June 12 (Tue.)	15	14:35-14:50	Feasibility of salinity gradient energy by using effluent from municipal wastewater treatment plant	Hanki Kim	Energy	Korea Institute of Energy Research	Korea	AK0183
	-	Topaz	June 12 (Tue.)	5	14:50-14:55	Discussion					
ENE-04	OP26	Topaz	June 12 (Tue.)	95	15:10-16:45	Energy-04 (Others Section)	Myung Chan Gye	Energy	Hanyang University	Korea	-
	OP26	Topaz	June 12 (Tue.)	95	15:10-16:45	Energy-04 (Others Section)	Sung-Eun Lee	Energy	Kyungpook National University	Korea	-
	OP26-1	Topaz	June 12 (Tue.)	20	15:10-15:30	Utilization of Biomass waste as Energy Materials	Seong Ok Han	Energy	Korea Institute of Energy Research	Korea	IK0680
	OP26-2	Topaz	June 12 (Tue.)	15	15:30-15:45	Evaluation of varies metal catalyst (Ni, Cd, Pt, Co) doped cathode to alternative Pt for Microbial Fuel cells (MFCs)	Yun Jeong Choi	Energy	Korea Maritime and Ocean University	Korea	AK0303
	OP26-3	Topaz	June 12 (Tue.)	15	15:45-16:00	Catalytic Pyrolysis of Lignocellulosic Biomass with Metal Oxides	Suchithra Thangalazhy-Gopakumar	Energy	University of Nottingham	Malaysia	AF0134
	OP26-4	Topaz	June 12 (Tue.)	15	16:00-16:15	Mesoporous poly(ionic liquid)s catalyze the conversion of CO2 into high-value chemicals	Yu Zhou	Energy	Nanjing Tech University	China	IF0121
	OP26-5	Topaz	June 12 (Tue.)	15	16:15-16:30	Development of a interspecies interaction model: An experiment on Clostridium cadaveris and Clostridium sporogenes under anaerobic condition	Taewoan Koo	Energy	POSTECH	Korea	AK0524
	-	Topaz	June 12 (Tue.)	15	16:30-16:45	Discussion					

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ENV-01	OP01	Diamond1	June 10 (Sun.)	95	15:00-16:35	Environment-01	Zeng-Yei Hseu	Environment	National Taiwan University	Taiwan	-
	OP01-1	Diamond1	June 10 (Sun.)	20	15:00-15:20	Efficacy of cheap amendments for stabilizing heavy metals in contaminated paddy fields	Zeng-Yei Hseu	Environment	National Taiwan University	Taiwan	IF0050
	OP01-2	Diamond1	June 10 (Sun.)	15	15:20-15:35	Occurrence, Sorption Behavior and Biodegradability of DEET in Wastewater Treatment Plants	Yi Yang	Environment	The Education University of Hong Kong	Hong Kong, China	AF0972
	OP01-3	Diamond1	June 10 (Sun.)	15	15:35-15:50	Feasibility for biodecomposition of granular polyethylene microplastic by <i>Pseudomonas aeruginosa</i> isolated from petroleum-contaminated soil	Seon Yeong Park	Environment	Inha University	Korea	AK0068
	OP01-4	Diamond1	June 10 (Sun.)	15	15:50-16:05	A new paradigm for a more sustainable A2/O-MBR from microbial community structure and hydrodynamics perspective	Min Yang	Environment	Changsha University of Science and Technology	China	AF0671
	OP01-5	Diamond1	June 10 (Sun.)	15	16:05-16:20	The priming effect: fresh carbon and nitrogen inputs determine soil microbial community and carbon use	Yilu Xu	Environment	University of Newcastle	Australia	AF0172
	OP01-6	Diamond1	June 10 (Sun.)	15	16:20-16:35	Anionic surfactant modification of activated carbon for enhancing adsorption of ammonium ion from aqueous solution	Wooram Lee	Environment	Seoul National University	Korea	AK0150
ENV-02	OP02	Coral	June 10 (Sun.)	95	15:00-16:35	Environment-02	Kartik Chandran	Environment	Columbia University	USA	-
	OP02	Coral	June 10 (Sun.)	95	15:00-16:35	Environment-02	Harn Wei Kua	Environment	National University of Singapore	Singapore	-
	OP02-1	Coral	June 10 (Sun.)	20	15:00-15:20	Engineered Platforms for Resource Recovery from Organics	Kartik Chandran	Environment	Columbia University	USA	IF0941
	OP02-2	Coral	June 10 (Sun.)	15	15:20-15:35	Forward Osmosis Membrane to Treat Effluent from Anaerobic Fluidized Bed Ceramic Membrane Bioreactor for Wastewater Reuse Applications	Dae-Eun Kwon	Environment	Inha University	Korea	AK0802
	OP02-3	Coral	June 10 (Sun.)	15	15:35-15:50	Radon hormesis over microbes under natural soils	Kyuyeon Lee	Environment	Inha University	Korea	AK0194
	OP02-4	Coral	June 10 (Sun.)	15	15:50-16:05	Operational controls on stable isotope compositions of various carbon fractions in biochar and its environmental perspective	Balal Yousaf	Environment	University of Science and Technology of China	China	AF0628
	OP02-5	Coral	June 10 (Sun.)	15	16:05-16:20	Long-term examination of nutrients release from coagulated algae	Bokjin Lee	Environment	University of Science and Technology	Korea	AK0264
	-	Coral	June 10 (Sun.)	15	16:20-16:35	Discussion					



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ENV-03	OP05	Sapphire	June 10 (Sun.)	95	15:00-16:35	Environment-03	Gregory Biging	Environment	University of California, Berkeley	USA	-
	OP05	Sapphire	June 10 (Sun.)	95	15:00-16:35	Environment-03	Kitae Baek	Environment	Chonbuk National University	Korea	-
	OP05-1	Sapphire	June 10 (Sun.)	20	15:00-15:20	Spectral indices to identify ozone?damaged pine needles in the Sierra Nevada Mountains of California	Gregory Biging	Environment	University of California, Berkeley	USA	IF0784
	OP05-2	Sapphire	June 10 (Sun.)	15	15:20-15:35	Bioremediation under extremes: enhanced hydrocarbon biodegradation in petroleum-contaminated soils under sub-zero temperature regimes in cold climates	Wonjae Chang	Environment	University of Saskatchewan	Canada	AF0409
	OP05-3	Sapphire	June 10 (Sun.)	15	15:35-15:50	Hybridizing bioremediation and desalination for petroleum hydrocarbon- and salt-impacted water	Wonjae Chang	Environment	University of Saskatchewan	Canada	AF0412
	OP05-4	Sapphire	June 10 (Sun.)	15	15:50-16:05	Enhanced adsorption of arsenic using calcined alginate bead with alum sludge from water treatment facilities	Seunghee Kang	Environment	Chonbuk National University	Korea	AK0270
	OP05-5	Sapphire	June 10 (Sun.)	15	16:05-16:20	Heavy Metal Release into the Marine Environment during Utilization of Incineration Bottom Ash for Land Reclamation ? A Field-Scale Column Study	Ke Yin	Environment	Nanyang Environment and Water Research Institute	Singapore	AF0491
	OP05-6	Sapphire	June 10 (Sun.)	15	16:20-16:35	Spatial distributions and contamination patterns of polychlorinated naphthalenes in soils collected from South Korea	Jin-Woo Jeon	Environment	Ulsan National Institute of Science and Technology (UNIST)	Korea	AK0175
ENV-04	OP06	Crystal	June 10 (Sun.)	95	15:00-16:35	Environment-04	Ming Zhang	Environment	China Jiliang University	China	-
	OP06	Crystal	June 10 (Sun.)	95	15:00-16:35	Environment-04	Shicheng Zhang	Environment	Fudan University	China	-
	OP06-1	Crystal	June 10 (Sun.)	15	15:00-15:15	Contamination characteristics of dioxins and dioxin-like polychlorinated biphenyls in fishery products and exposure by dietary intake of the Koreans	Min-Kyu Park	Environment	Ulsan National Institute of Science and Technology (UNIST)	Korea	AK0381
	OP06-2	Crystal	June 10 (Sun.)	15	15:15-15:30	Removal of lead from drinking water using iron-modified zeolite	Ebrima Sallah	Environment	National Taipei University of Technology	Taiwan	AF0357
	OP06-3	Crystal	June 10 (Sun.)	15	15:30-15:45	Operating factors and kinetics of modified Fenton's oxidation of distillery slops using calcium peroxide as alternative oxidant source	Michael Vincent Laurio	Environment	University of the Philippines Los Banos	Philippines	AF0365
	OP06-4	Crystal	June 10 (Sun.)	15	15:45-16:00	Influence of calcium support on the catalytic decomposition of non-condensable pyrolysis hydrocarbons from mixed plastics	Apostolos Giannis	Environment	Nanyang Technological University	Singapore	AF0373
	-	Crystal	June 10 (Sun.)	35	16:00-16:35	Discussion					

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ENV-05	OP07	Diamond1	June 10 (Sun.)	95	16:55-18:30	Environment-05	Meththika Vithanage	Environment	University of Sri Jayewardenepura	Sri Lanka	-
	OP07-1	Diamond1	June 10 (Sun.)	15	16:55-17:10	Nitrous oxide and methane emission from a temperate forest	Nadar Hussain Khokhar	Environment	Hanyang University	Korea	AK0740
	OP07-2	Diamond1	June 10 (Sun.)	15	17:10-17:25	Covalently immobilized photosensitizers on a surface for antibacterial application	Han-Shin Kim	Environment	KOREA University	Korea	AK0780
	OP07-3	Diamond1	June 10 (Sun.)	15	17:25-17:40	Application of silver nanoparticles for mitigating membrane fouling in a novel microfiltration membrane bioreactor system	Alieu Sowe	Environment	National Taipei University of Technology	Taiwan	AF0220
	-	Diamond1	June 10 (Sun.)	50	17:40-18:30	Discussion					
ENV-06	OP08	Coral	June 10 (Sun.)	95	16:55-18:30	Environment-06	Ming Zhang	Environment	China Jiliang University	China	-
	OP08-1	Coral	June 10 (Sun.)	15	16:55-17:10	Degradation of nuclear waste water by photocatalytic decomposition using liquid phase plasma on metal oxide compound photocatalysts	Sang-Chul Jung	Environment	Sunchon National University	Korea	AK0164
	OP08-2	Coral	June 10 (Sun.)	15	17:10-17:25	The biodegradation of atrazine by a microbial consortium isolated from agricultural soil	Ying Zhang	Environment	Northeast Agricultural University	China	AF0698
	OP08-3	Coral	June 10 (Sun.)	15	17:25-17:40	Removal of Polycyclic Aromatic Hydrocarbons in Soil Washing Effluents Containing High Concentration of Surfactants by Organo-LDHs	Ming Zhang	Environment	China Jiliang University	China	AF0747
	OP08-4	Coral	June 10 (Sun.)	15	17:40-17:55	Novel method for the determination of BOD using photo sensor based respirometer system	Fida Hussain	Environment	Kangwon National University	Korea	AK0819
	-	Coral	June 10 (Sun.)	35	17:55-18:30	Discussion					



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ENV-07	OP11	Sapphire	June 10 (Sun.)	95	16:55-18:30	Environment-07	Sang-Eon Park	Environment	Inha University	Korea	-
	OP11	Sapphire	June 10 (Sun.)	95	16:55-18:30	Environment-07	Changyoon Jeong	Environment	Louisiana State University	USA	-
	OP11-1	Sapphire	June 10 (Sun.)	20	16:55-17:15	Consuming CO2 by Uses for Value Added Petrochemicals	Sang-Eon Park	Environment	Inha University	Korea	IK0096
	OP11-2	Sapphire	June 10 (Sun.)	15	17:15-17:30	Activation of persulfate by biochar supported nanoscale zero-valent iron nanocomposite for the degradation of pentachlorophenol	Imtyaz Hussain	Environment	Jinan University	China	AF0876
	OP11-3	Sapphire	June 10 (Sun.)	15	17:30-17:45	Enhancing Backwash Efficiency Of Walnut Shell Media Using Micro Bubble In Treating Oil Contaminated Wastewater	Je Won Hyun	Environment	Inha University	Korea	AK0779
	OP11-4	Sapphire	June 10 (Sun.)	15	17:45-18:00	A Profitable Strategy for Phytoremediation of Heavy Metal Contaminated Soils with Resourceful Plants	Kokyo Oh	Environment	Center for environmental Science in Saitama	Japan	AF0906
	OP11-5	Sapphire	June 10 (Sun.)	15	18:00-18:15	Application of food wastewater sludge-based biochar for phenol removal from aqueous solution	Changgu Lee	Environment	Ajou University	Korea	AF0916
	-	Sapphire	June 10 (Sun.)	15	18:15-18:30	Discussion					
ENV-08	OP12	Crystal	June 10 (Sun.)	95	16:55-18:30	Environment-08	Sang Soo Lee	Environment	Yonsei University	Korea	-
	OP12-1	Crystal	June 10 (Sun.)	15	16:55-17:10	Performance of oxidation-coagulation on mitigation of membrane fouling for microfiltration by in situ generated ferrate	Alicia An	Environment	City University of Hong Kong	Hong Kong, China	AK0419
	OP12-2	Crystal	June 10 (Sun.)	15	17:10-17:25	Microalgae growth and biodiesel productivity according to photoautotrophic and mixotrophic conditions	Hyun-Woo Kim	Environment	Chonbuk national university	Korea	AK0473
	OP12-3	Crystal	June 10 (Sun.)	15	17:25-17:40	Energy and Metal recovery from waste printed circuited boards	Srikanth Chakravartula Srivatsa	Environment	Monash univeristy	Australia	AF0757
	OP12-4	Crystal	June 10 (Sun.)	15	17:40-17:55	Physical properties and performance of regenerated sand through chemical regeneration	Kyeong Ho Kim	Environment	KITECH	Korea	AK0593
	OP12-5	Crystal	June 10 (Sun.)	15	17:55-18:10	Production of hydrogen peroxide using bioelectrochemical processes and its application to advanced on-site wastewater treatment	Waris Khan	Environment	Sejong University	Korea	AK0600
	-	Crystal	June 10 (Sun.)	20	18:10-18:30	Discussion					

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ENV-09	OP13	Topaz	June 11 (Mon.)	110	12:45-14:35	Environment-09	Huu Hao Ngo	Environment	University of Technology Sydney	Australia	-
	OP13	Topaz	June 11 (Mon.)	110	12:45-14:35	Environment-09	Jeong Ik Oh	Environment	Land & Housing Institute	Korea	-
	OP13-1	Topaz	June 11 (Mon.)	20	12:45-13:05	Contribution of antibiotics to the fate of antibiotic resistance genes in anaerobic treatment processes of swine wastewater	Huu Hao Ngo	Environment	University of Technology Sydney	Australia	IF0170
	OP13-2	Topaz	June 11 (Mon.)	15	13:05-13:20	Recycling Waste Printed Papers to Nanocrystalline Cellulose as Adsorbent for Azo Dyes Removal in Aqueous Solution	Jindrayani Putro	Environment	National Taiwan University of Science and Technology	Taiwan	AF0004
	OP13-3	Topaz	June 11 (Mon.)	15	13:20-13:35	The biogeochemical characteristic of phosphorus in coastal sediments under the stress of high salt and heavy pollution	Guoqiang Zhao	Environment	Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences	China	AF0146
	OP13-4	Topaz	June 11 (Mon.)	15	13:35-13:50	Investigation of emerging environmental water contaminants' behavior during wastewater and desalination multi treatment system at various temperature differences	Sungju Im	Environment	Sungkyunkwan University	Korea	AK0877
	OP13-5	Topaz	June 11 (Mon.)	15	13:50-14:05	Enhancement of Iodide Recovery and Removal of Boron in Forward Osmosis System	Zhi-Sheng Cai	Environment	National Taipei University of Technology	Taiwan	AF0024
	OP13-6	Topaz	June 11 (Mon.)	15	14:05-14:20	Using computed tomography images to characterize the effects of soil compaction on three-dimensional pore characteristics in an opencast coal-mine dump	Yu Feng	Environment	China University of Geosciences	China	AF0174
	OP13-7	Topaz	June 11 (Mon.)	15	14:20-14:35	A Study on Evaluation of Power Generation Efficiency and GHG Reduction Effect in Municipal Waste Incineration Facility	Jisu Bae	Environment	NIER	Korea	AK0810
ENV-10	OP15	Crystal	June 11 (Mon.)	110	12:45-14:35	Environment-10	Sunita Varjani	Environment	Gujarat Pollution Control Board	India	-
	OP15-1	Crystal	June 11 (Mon.)	20	12:45-13:05	Microbial Degradation of Xenobiotic Compounds	Sunita Varjani	Environment	Gujarat Pollution Control Board	India	IF0609
	OP15-2	Crystal	June 11 (Mon.)	15	13:05-13:20	Adsorption and Electrothermal Desorption of Gaseous Mercury using Activated Carbon Fiber	Bing-Ci Chen	Environment	National Taiwan University	Taiwan	AF0241
	OP15-3	Crystal	June 11 (Mon.)	15	13:20-13:35	Application of altitudinal potential source contribution function and concentration weighted trajectory for identifying spatial emission sources and long-range atmospheric transport of PAHs	Tuyet Nam Nguyen	Environment	Ulsan National Institute of Science and Technology	Vietnam	AF0260
	OP15-4	Crystal	June 11 (Mon.)	15	13:35-13:50	Optimization of the foodwaste drying process	Jae Hee Lee	Environment	GAIA corporation	Korea	AK0640
	OP15-5	Crystal	June 11 (Mon.)	15	13:50-14:05	Liquid-phase Hg removal by sulfurized activated carbon from actual seawater flue gas desulfurization wastewater of a coal-burning power plant	Hsing-Cheng Hsi	Environment	National Taiwan University	Taiwan	AF0311
	OP15-6	Crystal	June 11 (Mon.)	15	14:05-14:20	Comparison of nutrient content of manures originated from different sources	Jongkwan Park	Environment	Ulsan National Institute of Science and Technology	Korea	AK0397
	OP15-7	Crystal	June 11 (Mon.)	15	14:20-14:35	Citric acid assisted phytoremediation of Cadmium through Alternanthera bettzickiana (Regel) G. Nicholson	Muhammad Ibrahim	Environment	Government College University Faisalabad	Pakistan	AK0879

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ENV-11	OP16	Topaz	June 11 (Mon.)	95	14:50-16:25	Environment-11	Christian Larroche	Environment	University Clermont Auvergne	France	-
	OP16-1	Topaz	June 11 (Mon.)	20	14:50-15:10	Immersed membrane bioreactors: present status, especially for biofuel and biomolecules production, and new tools for their design	Christian Larroche	Environment	Pascal Institute, University Clermont Auvergne	France	IF0179
	OP16-2	Topaz	June 11 (Mon.)	15	15:10-15:25	The effects of biochar on tree growth and induced soil suction on compacted Completely Decomposed Granite (CDG)	Tsz Fung Wong	Environment	The Hong Kong University of Science and Technology	Hong Kong, China	AF0195
	OP16-3	Topaz	June 11 (Mon.)	15	15:25-15:40	A study on the thermal treatment possibility of HCBd containing wastes	Eun-Hye Kwon	Environment	National Institute of Environmental Research	Korea	AK0817
	OP16-4	Topaz	June 11 (Mon.)	15	15:40-15:55	Application of Upflow Anaerobic Sludge Bioreactor combined with Forward Osmosis system	Yung-Chun Sun	Environment	International Taipei University of Technology	Taiwan	AF0202
	OP16-5	Topaz	June 11 (Mon.)	15	15:55-16:10	Performance Improvement of Magnesia-Based Mortar by Accelerated Carbonation	Jun-Young Ahn	Environment	Pusan National University	Korea	AK0861
	OP16-6	Topaz	June 11 (Mon.)	15	16:10-16:25	Rapid Determination of Heavy Metals in Environmental Samples using Developed Portable Electrochemical Sensor Platform	Liya Ge	Environment	Nanyang Technological University	Singapore	AF0224
ENV-12	OP19	Coral	June 11 (Mon.)	95	16:45-18:20	Environment-12	Seok-Oh Ko	Environment	Kyung Hee University	Korea	-
	OP19	Coral	June 11 (Mon.)	95	16:45-18:20	Environment-12	Eakalak Khan	Environment	University of Nevada, Las Vegas	USA	-
	OP19-1	Coral	June 11 (Mon.)	20	16:45-17:05	Characterization of Road Deposit Sediments as a Nonpoint Source Pollutant and Its Control by Road Sweeping	Seok-Oh Ko	Environment	Kyung Hee University	Korea	IK0067
	OP19-2	Coral	June 11 (Mon.)	15	17:05-17:20	Long-term Leaching and the Characteristics of Dissolve Organic Matter Leached from Road Deposit Sediments on Expressways in Synthetic Precipitation.	Do-Gun Kim	Environment	Kyung Hee University	Korea	AK0421
	OP19-3	Coral	June 11 (Mon.)	15	17:20-17:35	Superhydrophobic Octadecyltrimethoxysilane based PVDF/Carbon Black Composite Membrane for Improved Desalination	Saikat Sinha Ray	Environment	National Taipei University of Technology	Taiwan	AF0025
	OP19-4	Coral	June 11 (Mon.)	15	17:35-17:50	Development of graphene oxide-chitosan foam for sequestration of synthetic dyes	Billie Yan Zhang Hiew	Environment	University of Nottingham Malaysia Campus	Malaysia	AF0543
	OP19-5	Coral	June 11 (Mon.)	15	17:50-18:05	Atmospheric volatile organic compounds (VOCs) in the Seoul metropolitan city, South Korea: Spatial distribution, seasonal variation, and source identification	Seong-Joon Kim	Environment	Ulsan National Institute of Science and Technology (UNIST)	Korea	AK0468
	OP19-6	Coral	June 11 (Mon.)	15	18:05-18:20	Removal of Fats, Oil and Grease from Wastewater using Garbage Enzymes	Yuekming Ho	Environment	Universiti Putra Malaysia	Malaysia	AF0570

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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
ENV-13	OP22	Coral	June 12 (Tue.)	95	13:20-14:55	Environment-13	Seoktae Kang	Environment	KAIST	Korea	-
	OP22	Coral	June 12 (Tue.)	95	13:20-14:55	Environment-13	Shiming Ding	Environment	Nanjing Institute of Geography and Limnology Chinese Academy of Sciences	China	-
	OP22-1	Coral	June 12 (Tue.)	20	13:20-13:40	Overcoming mass-transfer limit in adsorption and electro-oxidation of micropollutants	Seoktae Kang	Environment	KAIST	Korea	IK0957
	OP22-2	Coral	June 12 (Tue.)	15	13:40-13:55	Analysis of Land Use Change in Pingshuo Opencast Coalmine Area based on Transfer Matrix	Min Zhang	Environment	China University of Geosciences	China	AF0322
	OP22-3	Coral	June 12 (Tue.)	15	13:55-14:10	The strategy to achieve WWTPs energy self-sufficient based on improved organic recovery and autotrophic denitrification	Hui Gong	Environment	Tsinghua University	China	AF0014
	OP22-4	Coral	June 12 (Tue.)	15	14:10-14:25	Evaluation of various biowastes for immobilization of arsenite and arsenate in aqueous environments	Muhammad Shakoore	Environment	Government College University Faisalabad	Pakistan	AF0089
	OP22-5	Coral	June 12 (Tue.)	15	14:25-14:40	Insights into the effect of headspace conditions on the GC/MS-based analysis of volatile organic compounds in e-cigarette liquid samples	Sang-Hee Jo	Environment	Hanyang University	Korea	AK0167
OP22-6	Coral	June 12 (Tue.)	15	14:40-14:55	Removal of Arsenite, Arsenate and Methylarsonic acid from contaminated groundwater by Pervaporation	I-Shan Chiang	Environment	National Taipei University of Technology	Taiwan	AF0505	
ENV-14	OP24	Sapphire	June 12 (Tue.)	95	13:20-14:55	Environment-14	Diana Aga	Environment	University at Buffalo, The State University of New York	USA	-
	OP24	Sapphire	June 12 (Tue.)	95	13:20-14:55	Environment-14	Sungpyo Kim	Environment	Korea University	Korea	-
	OP24-1	Sapphire	June 12 (Tue.)	20	13:20-13:40	Occurrence, Fate, and Mitigation of Antibiotics and Antibiotics Resistance in the Environment	Diana Aga	Environment	University at Buffalo, The State University of New York	USA	IF0984
	OP24-2	Sapphire	June 12 (Tue.)	15	13:40-13:55	Effect of Phenol on Biodegradation of Dissolved Organic Nitrogen in Wastewater	Eakalak Khan	Environment	University of Nevada, Las Vegas	USA	AF0627
	OP24-3	Sapphire	June 12 (Tue.)	15	13:55-14:10	Highly sensitive colorimetric detection of aluminum (III) ions based on the SPR spectroscopy of silver nanoparticles	Ganesh Saratale	Environment	Dongguk University	Korea	AK0233
	OP24-4	Sapphire	June 12 (Tue.)	15	14:10-14:25	Corn waste valorization to generate magnesium-impregnated hydrochar to recover phosphorus from microalgae of hydrothermal-assisted break-wall	Tao Zhang	Environment	China Agricultural University	China	AF0428
	OP24-5	Sapphire	June 12 (Tue.)	15	14:25-14:40	Enhancement of heavy metal sorption to Chlorella vulgaris by chemical pretreatment	Gwonho Joo	Environment	Seoul National University	Korea	AK0291
OP24-6	Sapphire	June 12 (Tue.)	15	14:40-14:55	Degradation mechanism of sulfonamide group antibiotics by an aeration-assisted non-thermal plasma in wastewater	Doggwan Lee	Environment	Chonbuk national university	Korea	AK0292	

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ENV-15	OP25	Crystal	June 12 (Tue.)	95	13:20-14:55	Environment-15	Amit Bhatnagar	Environment	University of Eastern Finland	Finland	-
	OP25	Crystal	June 12 (Tue.)	95	13:20-14:55	Environment-15	Jum Suk Jang	Environment	Chonbuk National University	Korea	-
	OP25-1	Crystal	June 12 (Tue.)	20	13:20-13:40	Versatile applications of cultivated microalgae in wastewater	Amit Bhatnagar	Environment	University of Eastern Finland	Finland	AF0507
	OP25-2	Crystal	June 12 (Tue.)	15	13:40-13:55	Improvement of detection limits of polycyclic aromatic hydrocarbons using ion mobility spectrometry by atmospheric change and sampling methods	Sung-Seen Choi	Environment	Sejong University	Korea	IK0675
	OP25-3	Crystal	June 12 (Tue.)	15	13:55-14:10	A Hydrophilic Pervaporation Membrane Derived from Polyvinyl Alcohol Cross Linked by Glutaraldehyde for Efficient Recovery of IPA	Nhan Phan	Environment	National Taipei University of Technology	Vietnam	AF0328
	OP25-4	Crystal	June 12 (Tue.)	15	14:10-14:25	Maximize Water Flux and Energy Production on Osmotic Microbial Fuel Cell by Draw Solution Selection	Dan Thanh Cao	Environment	National Taipei University of Technology	Taiwan	AF0199
	OP25-5	Crystal	June 12 (Tue.)	15	14:25-14:40	Prediction of long term leaching of heavy metals from dredged marine sediment used as a construction material inland	Kibeum Kim	Environment	Seoul National University	Korea	AK0883
	OP25-6	Crystal	June 12 (Tue.)	15	14:40-14:55	Betula pubescens L. as biomonitor of heavy metals	Tatyana Krupnova	Environment	South Ural State University	Russia	AF0117
ENV-16	OP27	Crystal	June 12 (Tue.)	110	15:10-17:00	Environment-16	Anna Knox	Environment	Savannah River National Laboratory	USA	-
	OP27	Crystal	June 12 (Tue.)	110	15:10-17:00	Environment-16	Shiming Ding	Environment	Nanjing Institute of Geography and Limnology	China	-
	OP27-1	Crystal	June 12 (Tue.)	20	15:10-15:30	New Approaches for Remediation of Contaminated Sediments with Chemically Active Sequestering Agents	Anna Knox	Environment	Savannah River National Laboratory	USA	IF0904
	OP27-2	Crystal	June 12 (Tue.)	15	15:30-15:45	Contributions of Different Phosphorus Species to Bioavailable Phosphorus in Secondary Effluent	Eakalak Khan	Environment	University of Nevada, Las Vegas	USA	AF0079
	OP27-3	Crystal	June 12 (Tue.)	15	15:45-16:00	Effects of graphene oxides and silver-graphene oxides on aquatic microbial activity	Kwanyoung Ko	Environment	Konkuk University	Korea	AK0334
	OP27-4	Crystal	June 12 (Tue.)	15	16:00-16:15	Photo-Induced Indirect Reduction of Cr(VI) in Soil Solution by Dissolved Organic Carbon and Iron Released from Biochars and Soil	Hye Bin Kim	Environment	Chonbuk National University	Korea	AK0436
	OP27-5	Crystal	June 12 (Tue.)	15	16:15-16:30	Char structure variation during co-pyrolysis of wooden waste and wet/ dry municipal sewage sludge	Qindong Chen	Environment	Peking University	China	AF0130
	OP27-6	Crystal	June 12 (Tue.)	15	16:30-16:45	Leachate characteristics and copper migration of bottom ash co-disposed with MSW in landfills	Wang Qian	Environment	Peking University	China	AF0137
	OP27-7	Crystal	June 12 (Tue.)	15	16:45-17:00	Silver (Ag) dopant effect of Ag doped BiVO <sub>4</sub> for improving photoelectrochemical water splitting	Meysam Tayebi	Environment	University of Ulsan	Korea	AK0633

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ENV-17	OP28	Diamond1	June 12 (Tue.)	95	17:05-18:40	Environment-17	Hocheol Song	Environment	Sejong University	Korea	-
	OP28	Diamond1	June 12 (Tue.)	95	17:05-18:40	Environment-17	Chao Cai	Environment	Chinese Academy of Sciences	China	-
	OP28-1	Diamond1	June 12 (Tue.)	20	17:05-17:25	Simultaneous Nutrients Recovery and Osmotic Concentration of Source-Separated Wastewater and Urine	Ho Kyong Shon	Environment	University of Technology Sydney	Australia	IF0639
	OP28-2	Diamond1	June 12 (Tue.)	15	17:25-17:40	Selective adsorption of color substances for the post treatment of livestock wastewater by carbon-based nanomaterials	Hyojeon Kim	Environment	Civil and Environmental Engineering	Korea	AK0501
	OP28-3	Diamond1	June 12 (Tue.)	15	17:40-17:55	Phosphorus Adsorption from Wastewater by Golden Apple Snail Shell Ash	Jirawan Torit	Environment	Srinakharinwirot University	Thailand	AF0888
	OP28-4	Diamond1	June 12 (Tue.)	15	17:55-18:10	ZIF-67 for chemosensing of volatile organic compounds (VOCs)	Pawan Kumar	Environment	Central University of Jammu	India	AF0572
	OP28-5	Diamond1	June 12 (Tue.)	15	18:10-18:25	Characteristics of Cloud Condensation Nuclei in an Urban Region of Central Taiwan	Wei-Jen Hsieh	Environment	National central university	Taiwan	AF0192
	OP28-6	Diamond1	June 12 (Tue.)	15	18:25-18:40	From Organic Food Waste to Transportation Fuel. A Life Cycle Assessment Case Study of Providing Cleaner Public Transportation in the City of Skelleftea, Sweden.	Kavitha Shanmugam	Environment	Umea University	Sweden	AF0155
ENV-18	OP29	Coral	June 12 (Tue.)	95	17:05-18:40	Environment-18	Jörg Rinklebe	Environment	University of Wuppertal	Germany	-
	OP29-1	Coral	June 12 (Tue.)	15	17:05-17:20	Correlation between acute-toxicity and strong wastewater characteristics explaining the inhibition of Daphnia magna	Doggwan Lee	Environment	Chonbuk National University	Korea	AK0294
	OP29-2	Coral	June 12 (Tue.)	15	17:20-17:35	Impact of land cover types on ammonia oxidizing archaea to bacteria ratio in different soils	Hussnain Mukhtar	Environment	National Taiwan University	Taiwan	AF0361
	OP29-3	Coral	June 12 (Tue.)	15	17:35-17:50	Improved catalytic activity and stability of A-site cation excessive perovskites La <sub>1+x</sub> FeO <sub>3</sub> for Fenton-like degradation of dyes	Zongping Shao	Environment	Nanjing Tech University	China	IF0108
	OP29-4	Coral	June 12 (Tue.)	15	17:50-18:05	Recovery of Diluted Phosphoric Acid as Struvite from Semiconductor Wastewater by Nanofiltration Process	Bo-Cheng Tsai	Environment	National Taipei University of Technology	Taiwan	IF0272
	OP29-5	Coral	June 12 (Tue.)	15	18:05-18:20	Environmental Sustainability Assessment of Electricity Production from Bagasse in Pakistan	Hafiz Ghani	Environment	King Mongkut's University of Technology Thonburi	Thailand	IF0352
	OP29-6	Coral	June 12 (Tue.)	15	18:20-18:35	The flotation separation for removing arsenopyrite from abandoned mine tailing	Jaeyoung Choi	Environment	Korea Institute of Science and Technology	Korea	IK0760
	-	Coral	June 12 (Tue.)	5	18:35-18:40	Discussion					



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ENV-19	OP30	Sapphire	June 12 (Tue.)	95	17:05-18:40	Environment-19	Jheng-Jie Jiang	Environment	Chung Yuan Christian University	Taiwan	-
	OP30-1	Sapphire	June 12 (Tue.)	15	17:05-17:20	Effect of hydraulic retention time (HRT) on anaerobic co-digestion of manure and food-waste in CSTR: role of microorganism community and correlation with physicochemical parameters	Gyuseong Han	Environment	Postech Environmental engineering	Korea	IK0456
	OP30-2	Sapphire	June 12 (Tue.)	15	17:20-17:35	Economic feasibility of thermo-alkaline pre-treatment in the anaerobic fermentation of Theobroma cacao (Cocoa pods)	Olatunde Dahunsi	Environment	Landmark University	Nigeria	AF0559
	OP30-3	Sapphire	June 12 (Tue.)	15	17:35-17:50	Effects of chemical oxidation on the degradation of PAHs, soil physico-chemical properties and the distribution of PTEs in the contaminated soils	Yongkai Liao	Environment	Institute of urban environment, Chinese academy of sciences	China	AF0358
	OP30-4	Sapphire	June 12 (Tue.)	15	17:50-18:05	Magnetite as an enhancer in methanogenic degradation of volatile fatty acids under ammonia-stressed conditions	Joonyeob Lee	Environment	POSTECH	Korea	AK0864
	OP30-5	Sapphire	June 12 (Tue.)	15	18:05-18:20	Laboratory scale column experiment to study infiltration of hydrologic soil type after gravel amendment	Sher Gurung	Environment	Kongju National University	Korea	AK0797
	OP30-6	Sapphire	June 12 (Tue.)	15	18:20-18:35	Hydrous Fe-Al-Mn Mixed-Oxide Loaded Chitosan Composite from Laterite to Remove Fluoride from Water	Abhijit Maiti	Environment	Indian Institute of Technology	India	AF0839
	-	Sapphire	June 12 (Tue.)	5	18:35-18:40	Discussion					
ENV-20	OP31	Crystal	June 12 (Tue.)	95	17:05-18:40	Environment-20	Filip Tack	Environment	Ghent University	Belgium	-
	OP31	Crystal	June 12 (Tue.)	95	17:05-18:40	Environment-20	Inseong Hwang	Environment	Pusan National University	Korea	-
	OP31-1	Crystal	June 12 (Tue.)	15	17:05-17:20	Comparison of the degradation of imidacloprid in water via Radical and Non-Radical Activating persulfate system	Waseem Hayat	Environment	South China University of Technology	China	AF0824
	OP31-2	Crystal	June 12 (Tue.)	15	17:20-17:35	Effects of biochar addition on methane production and antibiotic resistance genes during anaerobic digestion of dairy manure	Hyun Min Jang	Environment	Texas A&M AgriLife Research Center	USA	AF0250
	OP31-3	Crystal	June 12 (Tue.)	15	17:35-17:50	Direct eliminating of jellyfish polyps: an effective measure to minimize harm damage caused by blooms of Aurelia coerulea?	Jinho Chae	Environment	Marine Environmental Research and Information Laboratory	Korea	AK0875
	OP31-4	Crystal	June 12 (Tue.)	15	17:50-18:05	A novel rGO-CMC-Fe <sub>2</sub> +(-nZVI) hybrid for highly stable and reusable electrode for the electrochemical oxidation of organic pollutants	Ambika Selvaraj	Environment	Indian Institute of Technology Madras	India	AF0573
	OP31-5	Crystal	June 12 (Tue.)	15	18:05-18:20	Effect of storage pH on methane emission and the subsequent biogas production from pig slurry	Sang-Ryong Shin	Environment	Inha University	Korea	AK0382
	OP31-6	Crystal	June 12 (Tue.)	15	18:20-18:35	A field study on the potential use of phosphorus combined with lignite, farmyard manure and biochar on cadmium uptake in wheat and subsequent rice receiving raw effluents	Muhammad Rizwan	Environment	Government College University Faisalabad	Korea	IF0497
	-	Crystal	June 12 (Tue.)	5	18:35-18:40	Discussion					

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MAT-01	OP14	Sapphire	June 11 (Mon.)	100	12:55-14:35	Material Technology-01	Taejin Kim	Material Technology	Stony Brook University	USA	-
	OP14	Sapphire	June 11 (Mon.)	100	12:55-14:35	Material Technology-01	Lin-Bing Sun	Material Technology	Nanjing Tech University	China	-
	OP14-1	Sapphire	June 11 (Mon.)	20	12:55-13:15	Fundamental Studies of Furfuryl Alcohol Dehydration Over Bulk and Supported Metal Oxide Catalysts	Taejin Kim	Material Technology	Stony Brook University	USA	IF0651
	OP14-2	Sapphire	June 11 (Mon.)	20	13:15-13:35	Fabrication of Adsorbents by Using Confined Space for Desulfurization and Olefins Capture	Lin-Bing Sun	Material Technology	Nanjing Tech University	China	IF0071
	OP14-3	Sapphire	June 11 (Mon.)	15	13:35-13:50	Novel mesoporous amorphous magnesium carbonate for the adsorption of textile dyes and heavy metal ions	Ocean Cheung	Material Technology	Uppsala University	Sweden	AF0166
	OP14-4	Sapphire	June 11 (Mon.)	15	13:50-14:05	Real-Time Direct Observation of Carbon Dioxide Capture on Eutectic Mixture-Promoted Magnesium Oxide	Monica Louise Trivino	Material Technology	Myongji University	Korea	AK0642
	OP14-5	Sapphire	June 11 (Mon.)	15	14:05-14:20	Controlled Formation of Magnetic based Yolk-shell Structures with Enhanced Catalytic Activity for the Removal of Acetaminophen in Heterogeneous Fenton-like System	Quoc Cuong Do	Material Technology	Kyung Hee University	Korea	AK0696
	OP14-6	Sapphire	June 11 (Mon.)	15	14:20-14:35	Catalytic pyrolysis of scrap tires to liquid fuels: In-situ synchrotron FTIR study	Umer Khalil Chaudhry	Material Technology	Monash University	Australia	AF0704
MAT-02	OP17	Sapphire	June 11 (Mon.)	115	14:45-16:40	Material Technology-02	Bo Wang	Material Technology	Beijing Institute of Technology	China	-
	OP17	Sapphire	June 11 (Mon.)	115	14:45-16:40	Material Technology-02	Akash Deep	Material Technology	CSIR-CSIO Chandigarh	India	-
	OP17-1	Sapphire	June 11 (Mon.)	20	14:45-15:05	Strategies for the Fabrication of MOF Films and Coatings for Pollution Control	Bo Wang	Material Technology	Beijing Institute of Technology	China	IF0905
	OP17-2	Sapphire	June 11 (Mon.)	20	15:05-15:25	Enzyme Immobilized Metal-Organic Frameworks as Improved Substrates	Akash Deep	Material Technology	CSIR-CSIO Chandigarh	India	IF0286
	OP17-3	Sapphire	June 11 (Mon.)	15	15:25-15:40	Using Rice-Husk-Derived SiO <sub>2</sub> Catalyst Modified with Copper-Containing Industrial Wastewater to Remove Hg(0) and NO from Coal-Combustion Flue Gas	Cong-Jhen Lin	Material Technology	National Taiwan University	Taiwan	AF0016
	OP17-4	Sapphire	June 11 (Mon.)	15	15:40-15:55	PM <sub>2.5</sub> elimination by air percolation employing novel metal organic framework PAA-ZIF8 eletrospun membrane	Alicia An	Material Technology	City University of Hong Kong	Hong Kong, China	AK0422
	OP17-5	Sapphire	June 11 (Mon.)	15	15:55-16:10	Investigation of different three-dimensional graphene-based configurations on the adsorption of diclofenac	Billie Yan Zhang Hiew	Material Technology	University of Nottingham Malaysia Campus	Malaysia	AF0335
	OP17-6	Sapphire	June 11 (Mon.)	15	16:10-16:25	Tailoring heterojunction architecture on IrO <sub>2</sub> based dimensionally stable anodes for environmental applications	Kangwoo Cho	Material Technology	Pohang University of Science and Technology	Korea	AK0093
	OP17-7	Sapphire	June 11 (Mon.)	15	16:25-16:40	Development of Backfilling Material by Granulation/Carbonation Treatment of Mine Tailings Using MgO/GGBS Binder	Tae Yoo Kim	Material Technology	Pusan National University	Korea	AK0469

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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
<b>MAT-03</b>	OP20	Sapphire	June 11 (Mon.)	105	16:40-18:25	Material Technology-03	Sung Hwa Jung	Material Technology	Kyungpook National University	Korea	-
	OP20	Sapphire	June 11 (Mon.)	105	16:40-18:25	Material Technology-03	Sandeep Kumar	Material Technology	Guru Jambheshwar University of Science & Technology	India	-
	OP20-1	Sapphire	June 11 (Mon.)	20	16:40-17:00	Nanocarriers as emerging platforms for efficient pesticide management	Sandeep Kumar	Material Technology	Guru Jambheshwar University of Science & Technology	India	IF0513
	OP20-2	Sapphire	June 11 (Mon.)	20	17:00-17:20	Adsorptive Removal of Hazardous Organics in Liquid-phase with Metal-organic frameworks	Sung Hwa Jung	Material Technology	Kyungpook National University	Korea	IK0048
	OP20-3	Sapphire	June 11 (Mon.)	20	17:20-17:40	Materials for Environmental Remediation	Ki-Hyun Kim	Material Technology	Hanyang University	Korea	IK0111
	OP20-4	Sapphire	June 11 (Mon.)	15	17:40-17:55	Effect of water entrainment by pre-soaked biochar particles on strength and permeability of cement mortar	Harn Wei Kua	Material Technology	National University of Singapore	Singapore	AF0188
	OP20-5	Sapphire	June 11 (Mon.)	15	17:55-18:10	Employment of bipolar electrochemistry in dew point corrosion studies and materials screening	Grzegorz Lisak	Material Technology	Nanyang Technological University	Singapore	AF0247
	OP20-6	Sapphire	June 11 (Mon.)	15	18:10-18:25	One Step Synthesis of Nitrogen Functionalized Graphene by Submerged Liquid Plasma Process - A Low Temperature Synthesis	Senthilnathan Jaganathan	Material Technology	Indian Institute of Technology Madras	India	AF0574
<b>SS01</b>	SS01	Diamond1	June 11 (Mon.)	95	13:00-14:35	Special Symposium-Sediment Pollution Assessment and Remediation/Management	Filip Tack	Environment	Ghent University	Belgium	-
	SS01	Diamond1	June 11 (Mon.)	95	13:00-14:35	Special Symposium-Sediment Pollution Assessment and Remediation/Management	Shiming Ding	Environment	Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences	China	-
	SS01-1	Diamond1	June 11 (Mon.)	10	13:00-13:10	Metal cycling in ecosystems developed on disposed dredged sediments: how effective is natural attenuation?	Filip Tack	Environment	Ghent University	Belgium	IF0749
	SS01-2	Diamond1	June 11 (Mon.)	10	13:10-13:20	Using sulfur-impregnated activated carbon for leaching inhibition of mercury containing sediment by active capping method	Yu Ting	Environment	National Taiwan University	Taiwan	AF0033
	SS01-3	Diamond1	June 11 (Mon.)	10	13:20-13:30	Technical and Economic Assessment of Green Remediation and Recycling of Dredged Sediment	Lei Wang	Environment	The Hong Kong Polytechnic University	Hong Kong, China	AF0107
	SS01-4	Diamond1	June 11 (Mon.)	10	13:30-13:40	Effects of fine bubble aeration on sediment-water interface on distributions of organic phosphorus forms and microbial activity in the sediment from a heavily polluted urban river	Changming Yang	Environment	Tongji University	China	AF0711
	SS01-5	Diamond1	June 11 (Mon.)	10	13:40-13:50	Evaluation of the use of bentonite, illite, and zeolite to stabilize nutrients and to interrupt their release from contaminated lake sediments	Seong-Jik Park	Environment	Hankyong National University	Korea	AK0918
	SS01-6	Diamond1	June 11 (Mon.)	10	13:50-14:00	Coherent structures investigation and its influence on sediment flux in large shallow lake Taihu, China	Yiping Li	Environment	Hohai University, China	China	AF0656
	SS01-7	Diamond1	June 11 (Mon.)	10	14:00-14:10	Rare earth element composition and geochemical implications in surface sediments from Dongting Lake, Middle China	Lingqing Wang	Environment	Chinese Academy of Sciences	China	AF0690
	SS01-8	Diamond1	June 11 (Mon.)	10	14:10-14:20	Fluoride Adsorption and Desorption in Soil and their Effect on Groundwater: a Case Study in Southwestern of Shandong Province, China	Lirong Xu	Environment	University of Jinan	China	AF0838
-	Diamond1	June 11 (Mon.)	15	14:20-14:35	Discussion						

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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
SS02-A	SS02-A	Coral	June 11 (Mon.)	95	13:00-14:35	Special Symposium-Endocrine Disruptors	Chemyong Ko	Environment	University of Illinois at Urbana-Champaign	USA	-
	SS02-A	Coral	June 11 (Mon.)	95	13:00-14:35	Special Symposium-Endocrine Disruptors	Myung Chan Gye	Environment	Hanyang University	Korea	-
	SS02-A-1	Coral	June 11 (Mon.)	15	13:00-13:15	Prenatal Exposure to Phthalates Induces Neuronal Degeneration and Neurobehavioral Abnormalities in Adult Male Mice	Chemyong Ko	Environment	University of Illinois at Urbana-Champaign	USA	IF0994
	SS02-A-2	Coral	June 11 (Mon.)	12	13:15-13:27	Teratogenic potential and cell death inducing activity of 4-octylphenol in <i>Bombina orientalis</i> embryos	Myung Chan Gye	Environment	Hanyang University	Korea	IK0077
	SS02-A-3	Coral	June 11 (Mon.)	12	13:27-13:39	Assessment of endocrine-disrupting activity of Bisphenol A and alternative materials	Youngjoo Lee	Environment	Sejong University	Korea	AK0256
	SS02-A-4	Coral	June 11 (Mon.)	12	13:39-13:51	Potential tumorigenic effects associated with low dose bisphenol A and phthalates: in vitro and in vivo evidence	Kyung-Min Lim	Environment	Ewha Womans University	Korea	AK0944
	SS02-A-5	Coral	June 11 (Mon.)	12	13:51-14:03	Current Status and Future Plan for Development of OECD in vitro assays to assess the endocrine disrupting effects in Korea	Heeseok Lee	Environment	MFDS	Korea	AK0947
	SS02-A-6	Coral	June 11 (Mon.)	12	14:03-14:15	Comparative endocrine disruption of 6 phthalates in and zebrafish embryos, and in MVLN and H295R cell lines	Ki-Tae Kim	Environment	Seoul National University of Science and Technology	Korea	AK0991
	SS02-A-7	Coral	June 11 (Mon.)	12	14:15-14:27	Rapid and Sensitive Detection of Bisphenol A Using Aptamer-Facilitated Gold Nanoparticles	Young-Pil Kim	Environment	Hanyang University	Korea	IK0181
	-	Coral	June 11 (Mon.)	8	14:27-14:35	Discussion					
SS02-B	SS02-B	Coral	June 11 (Mon.)	95	14:50-16:25	Special Symposium-Endocrine Disruptors	Heeseok Lee	Environment	MFDS	Korea	-
	SS02-B	Coral	June 11 (Mon.)	95	14:50-16:25	Special Symposium-Endocrine Disruptors	Hyo-Bang Moon	Environment	Hanyang University	Korea	-
	SS02-B-1	Coral	June 11 (Mon.)	15	14:50-15:05	Over 1 week study for determination of major pathway in urinary concentrations of phthalates metabolites among 12 adults from Korea	Hyo-Bang Moon	Environment	Hanyang University	Korea	AK0993
	SS02-B-2	Coral	June 11 (Mon.)	12	15:05-15:17	Development and evaluation of fluorescence based aptasensor for bisphenol A detection and its portable analyzer	Sangdon Lee	Environment	Ewha Womans University	Korea	AK0215
	SS02-B-3	Coral	June 11 (Mon.)	12	15:17-15:29	BPA, phthalate, and metabolic components in general population	Sun Ha Jee	Environment	Yonsei University	Korea	AK0942
	SS02-B-4	Coral	June 11 (Mon.)	12	15:29-15:41	Association between pre- and post-natal exposures to Bisphenol A and children's health	Yun-Chul Hong	Environment	Seoul National University	Korea	AK0943
	SS02-B-5	Coral	June 11 (Mon.)	12	15:41-15:53	An Introduction to the Development of BRET-Based Human Estrogen Receptor Binding Assays	Yooheon Park	Environment	Dongguk University	Korea	AK0948
	-	Coral	June 11 (Mon.)	32	15:53-16:25	Discussion & EDCs Integrated Risk Management and Alternative Technologies R&D Program Overview and Committee Meeting					

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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
SS03-A	SS03-A	Emerald	June 11 (Mon.)	95	13:00-14:35	Special Symposium-4th KBRC International Biochar Conference: SMART Biochar Technology: A Shifting Paradigm towards Advanced Materials and Healthcare Research	Jörg Rinklebe	Bioresources	University of Wuppertal	Germany	-
	SS03-A	Emerald	June 11 (Mon.)	95	13:00-14:35	Special Symposium-4th KBRC International Biochar Conference: SMART Biochar Technology: A Shifting Paradigm towards Advanced Materials and Healthcare Research	Harn Wei Kua	Bioresources	National University of Singapore	Singapore	-
	SS03-A-1	Emerald	June 11 (Mon.)	15	13:00-13:15	Biochar application modulates soil health and fertility: a meta-analysis	Nanthi Bolan	Bioresources	University of Newcastle	Australia	IF0054
	SS03-A-2	Emerald	June 11 (Mon.)	15	13:15-13:30	Optimizing biochar properties for environmental applications	Scott Chang	Bioresources	University of Alberta	Canada	IF0076
	SS03-A-3	Emerald	June 11 (Mon.)	15	13:30-13:45	Magnetic biochar nanocomposites for the removal of diverse aquatic pollutants	Amit Bhatnagar	Bioresources	University of Eastern Finland	Finland	AF0097
	SS03-A-4	Emerald	June 11 (Mon.)	15	13:45-14:00	Sorption behavior of coexisting heavy metals and organic pollutants on biochars: Reciprocal effects of NOM and oxidative ageing	Jiawei Chen	Bioresources	China University of Geosciences	China	AF0082
	SS03-A-5	Emerald	June 11 (Mon.)	15	14:00-14:15	Effects of Biochar on Losses of Dissolved Organic C and Nutrients through Leaching In a Tropical Sandy Loam Soil	Shih-Hao Jien	Bioresources	National Pingtung University of Science and Technology	Taiwan	AF0087
	SS03-A-6	Emerald	June 11 (Mon.)	15	14:15-14:30	Polyethylene imine modified hydrochar adsorption for chromium (VI) and nickel (II) removal from aqueous solution	Tao Zhang	Bioresources	China Agricultural University	China	AF0212
	-	Emerald	June 11 (Mon.)	5	14:30-14:35	Discussion					
SS03-B	SS03-B	Emerald	June 11 (Mon.)	95	14:50-16:25	Special Symposium-4th KBRC International Biochar Conference: SMART Biochar Technology: A Shifting Paradigm towards Advanced Materials and Healthcare Research	Daniel Alessi	Bioresources	University of Alberta	Canada	-
	SS03-B	Emerald	June 11 (Mon.)	95	14:50-16:25	Special Symposium-4th KBRC International Biochar Conference: SMART Biochar Technology: A Shifting Paradigm towards Advanced Materials and Healthcare Research	Nanthi Bolan	Bioresources	University of Newcastle	Australia	-
	SS03-B-1	Emerald	June 11 (Mon.)	15	14:50-15:05	Impact of Biochars on Redox Processes in Metal Contaminated Soils, Sediments and Waters	Jörg Rinklebe	Bioresources	University of Wuppertal	Germany	IF0103
	SS03-B-2	Emerald	June 11 (Mon.)	15	15:05-15:20	Geo-microbial and geochemical processes regulated by biomass and biochar in sulfidic metal mine tailings	Longbin Huang	Bioresources	University of Queensland	Australia	IF0579
	SS03-B-3	Emerald	June 11 (Mon.)	15	15:20-15:35	Biomass derived hydrochar for carbon sequestration, environmental remediation and energy storage	Shicheng Zhang	Bioresources	Fudan University	China	AF0263
	SS03-B-4	Emerald	June 11 (Mon.)	15	15:35-15:50	Use of biochar to control indoor concentration of total volatile organic compound	Harn Wei Kua	Bioresources	National University of Singapore	Singapore	AF0355
	SS03-B-5	Emerald	June 11 (Mon.)	10	15:50-16:00	Temperature sensitivity of carbon pools in biochars with different condensation degrees	Guanhong Chen	Bioresources	Sun-yat Sen university	China	AF0929
	SS03-B-6	Emerald	June 11 (Mon.)	10	16:00-16:10	Effects of straw biochar on organic carbon, nitrogen, available phosphorus and enzymatic activities of paddy soil	Yulin Jing	Bioresources	Capital Normal University	China	AF0485
	SS03-B-7	Emerald	June 11 (Mon.)	10	16:10-16:20	Biochar decreases greenhouse gas emission from both bulk and rhizosphere soils	Prem Pokharel	Bioresources	University of Alberta	Canada	AF0692
-	Emerald	June 11 (Mon.)	5	16:20-16:25	Discussion						



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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
SS03-C	SS03-C	Emerald	June 12 (Tue.)	95	13:20-14:55	Special Symposium-4th KBRC International Biochar Conference: SMART Biochar Technology: A Shifting Paradigm towards Advanced Materials and Healthcare Research	Longbin Huang	Bioresources	University of Queensland	Australia	-
	SS03-C	Emerald	June 12 (Tue.)	95	13:20-14:55	Special Symposium-4th KBRC International Biochar Conference: SMART Biochar Technology: A Shifting Paradigm towards Advanced Materials and Healthcare Research	Filip Tack	Bioresources	Ghent University	Belgium	-
	SS03-C-1	Emerald	June 12 (Tue.)	15	13:20-13:35	The role of biochar in managing metals in soils	Filip Tack	Bioresources	Ghent University	Belgium	IF0234
	SS03-C-2	Emerald	June 12 (Tue.)	15	13:35-13:50	Biochar-Heavy Metal Sorption Mechanisms in Contaminated Soils	Jim Ippolito	Bioresources	Colorado State University	USA	AF0043
	SS03-C-3	Emerald	June 12 (Tue.)	15	13:50-14:05	Efficient Large-scale Biochar Production by Process Integration of Pyrolysis with a Host Boiler	Changkook Ryu	Bioresources	Sungkyunkwan University	Korea	IK0737
	SS03-C-4	Emerald	June 12 (Tue.)	15	14:05-14:20	Arsenic removal efficiency of perilla leaf biochar in aqueous environments: A spectroscopic and microscopic examination	Nabeel Niazi	Bioresources	University of Agriculture Faisalabad	Pakistan	AF0086
	SS03-C-5	Emerald	June 12 (Tue.)	10	14:20-14:30	Adsorption-desorption of PAEs on biochar: Effect of feedstock, pyrolysis temperature and leaching process	Fanqi Jing	Bioresources	China University of Geosciences, Beijing	China	AF0091
	SS03-C-6	Emerald	June 12 (Tue.)	10	14:30-14:40	Effects of rice straw biochar amendment on methane and nitrous oxide emissions in paddy soil in field experiment	Yuhu Zhang	Bioresources	Capital Normal University	China	AF0493
	SS03-C-7	Emerald	June 12 (Tue.)	10	14:40-14:50	Effect of biochar and hydrochar artificial ageing on atrazine sorption characteristics	Yuyan Liu	Bioresources	China University of Geosciences, Beijing	China	AF0153
	-	Emerald	June 12 (Tue.)	5	14:50-14:55	Discussion					
SS03-D	SS03-D	Emerald	June 12 (Tue.)	95	15:10-16:45	Special Symposium-4th KBRC International Biochar Conference: SMART Biochar Technology: A Shifting Paradigm towards Advanced Materials and Healthcare Research	Jim Ippolito	Bioresources	Colorado State University	USA	-
	SS03-D	Emerald	June 12 (Tue.)	95	15:10-16:45	Special Symposium-4th KBRC International Biochar Conference: SMART Biochar Technology: A Shifting Paradigm towards Advanced Materials and Healthcare Research	Jiawei Chen	Bioresources	China University of Geosciences	China	-
	SS03-D-1	Emerald	June 12 (Tue.)	15	15:10-15:25	Effect of feedstock biomasses on the efficacy of biochars for environmental remediation	Hailong Wang	Bioresources	Foshan University	China	IF0102
	SS03-D-2	Emerald	June 12 (Tue.)	15	15:25-15:40	Tunable biochar composite materials for water treatment	Daniel Alessi	Bioresources	University of Alberta	Canada	IF0755
	SS03-D-3	Emerald	June 12 (Tue.)	15	15:40-15:55	Remediation of volatile organic contaminants in landfills through carbonized urban biowaste	Meththika Vithanage	Bioresources	University of Sri Jayawardenepura	Sri Lanka	IF0685
	SS03-D-4	Emerald	June 12 (Tue.)	15	15:55-16:10	Effect of manganese oxide-modified biochar addition on methane production and heavy metals speciation during anaerobic digestion of sewage sludge	Changming Yang	Bioresources	Tongji University	China	AF0715
	SS03-D-5	Emerald	June 12 (Tue.)	15	16:10-16:25	Mineral constituents of sewage sludge biochar for copper adsorption and followed thermal stabilization	Yuanyuan Tang	Bioresources	Southern University of Science and Technology	China	AF0889
	SS03-D-6	Emerald	June 12 (Tue.)	15	16:25-16:40	Comparative evaluation of biochar in improving the growth, physiology and biochemical characteristics of Vigna Radiata L. and its rhizospheric soil	Muhammad Ibrahim	Bioresources	Government College University Faisalabad	Pakistan	AK0851
	-	Emerald	June 12 (Tue.)	5	16:40-16:45	Discussion					



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SS04	SS04	Diamond1	June 11 (Mon.)	95	14:50-16:25	Special Symposium-Clays and Waste Rock Minerals for Agricultural and Environmental Applications	Binoy Sarkar	Bioresources	The University of Sheffield	UK	-
	SS04	Diamond1	June 11 (Mon.)	95	14:50-16:25	Special Symposium-Clays and Waste Rock Minerals for Agricultural and Environmental Applications	Amit Bhatnagar	Bioresources	University of Eastern Finland	Finland	-
	SS04-1	Diamond1	June 11 (Mon.)	25	14:50-15:15	Combined DSC-XRD for rapid simultaneous screening of novel functional microporous frameworks.	John Parise	Bioresources	Stony Brook University	USA	IF0053
	SS04-2	Diamond1	June 11 (Mon.)	15	15:15-15:30	Enhanced weathering of silicate rocks and wastes for sustainable carbon dioxide capture and food security	Binoy Sarkar	Bioresources	The University of Sheffield	UK	AF0489
	SS04-3	Diamond1	June 11 (Mon.)	15	15:30-15:45	Novel synthesis method for nanoscale zerovalent iron from coal fly ash and its application as an environmental catalyst	Sunho Yoon	Bioresources	Konkuk University	Korea	AK0700
	SS04-4	Diamond1	June 11 (Mon.)	15	15:45-16:00	Synthesis and characterization of clay-cellulose bionanocomposite for the removal of metals from water	Amit Bhatnagar	Bioresources	University of Eastern Finland	Finland	IF0236
	SS04-5	Diamond1	June 11 (Mon.)	15	16:00-16:15	Fate and Transport of Radioactive Cesium in Soil Environment: Role of Frayed Edge Site in Clay Minerals	Kitae Baek	Bioresources	Chonbuk National University	Korea	IK0577
	-	Diamond1	June 11 (Mon.)	10	16:15-16:25	Discussion					
SS05	SS05	Emerald	June 11 (Mon.)	132	16:25-18:50	Special Symposium-SMART Recycling ; Zero Food Waste Housing on the Smart City	Jeong Ik Oh	Bioresources	Land & Housing Institute	Korea	-
	SS05-1	Emerald	June 11 (Mon.)	12	16:25-16:37	The influence of sewage sludge biochar on arsenic transformation in paddy soils	Haifeng Chi	Bioresources	Institute of urban environment, Chinese academy of sciences	China	AF0341
	SS05-2	Emerald	June 11 (Mon.)	12	16:37-16:49	Utilization of biochar based materials in the mitigation of Cadmium accumulation into plants	Youchi Zhang	Bioresources	Institute of urban environment, Chinese academy of sciences	China	AF0346
	SS05-3	Emerald	June 11 (Mon.)	12	16:49-17:01	Effects of three types of biochars on the accumulation of cadmium into rape (Brassica campestris L.): a comparative field study	Chao Cai	Bioresources	Institute of urban environment, Chinese academy of sciences	China	AF0348
	SS05-4	Emerald	June 11 (Mon.)	12	17:01-17:13	A Novel Approach for Inorganic Fouling Mitigation using Direct Nanofiltration System under Anoxic Conditions for Treating Groundwater	Yongxun Jin	Bioresources	Korea Institute of Science and Technology	Korea	AK0660
	SS05-5	Emerald	June 11 (Mon.)	12	17:13-17:25	Smart Recycling of Organic Solid using Food Waste Disposer	Munsol Ju	Bioresources	Seoul National University	Korea	AK0772
	SS05-6	Emerald	June 11 (Mon.)	12	17:25-17:37	In-situ operation of food waste zero system by using kitchen disposer combined with compost technology in the apartment complexes	Jeong Ik Oh	Bioresources	Land & Housing Institute	Korea	AK0831
	SS05-7	Emerald	June 11 (Mon.)	12	17:37-17:49	An Innovative Food Waste Recycling System for Eco-friendly Housing	Seunghyun Jung	Bioresources	KICT	Korea	AK0890
	SS05-8	Emerald	June 11 (Mon.)	12	17:49-18:01	Application of newly-developed volume retarded osmosis (VRO) ? low pressure membrane (LPM) hybrid process for treatment of wastewater from yogurt industry	Jung Won Choi	Bioresources	Sung Kyun Kwan University	Canada	AK0896
	SS05-9	Emerald	June 11 (Mon.)	12	18:01-18:13	Organic Waste Carbonizing System using Plasma	Soo-Young Moon	Bioresources	Korea Institute of Civil Engineering and Building Technology	Korea	AK0899
	SS05-10	Emerald	June 11 (Mon.)	12	18:13-18:25	A Pilot Study of Smart Food Waste Recycling Bin (S-FRB) to turn food waste into green resources	Alicia An	Bioresources	City University of Hong Kong	Hong Kong	IK0592
	SS05-11	Emerald	June 11 (Mon.)	12	18:25-18:37	Bioelectrochemical anaerobic ammonia oxidation of nitrogen rich wastewater using activated sludge as inoculum	Anna Joicy	Bioresources	Korea Maritime and Ocean University	Korea	IK0730
SS05-12	Emerald	June 11 (Mon.)	12	18:37-18:49	Life cycle assessment (LCA) of putrescible waste treatment in Hong Kong: On-site fermentation methodology	Joonho Yeo	Bioresources	City University of Hong Kong	Hong Kong, China	AF0353	

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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
SS06-A	SS06-A	Topaz	June 11 (Mon.)	120	16:30-18:30	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and Integrated Waste and Energy Policy	Eui-Chan Jeon	Energy	Sejong University	Korea	-
	SS06-A	Topaz	June 11 (Mon.)	120	16:30-18:30	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and Integrated Waste and Energy Policy	Chacrit Sitdhiwej	Energy	Thammasat University	Thailand	-
	SS06-A-1	Topaz	June 11 (Mon.)	10	16:30-16:40	Opening Remark	Kyuyong Lee	Energy	KIM & CHANG	Korea	-
	SS06-A-2	Topaz	June 11 (Mon.)	10	16:40-16:50	Nuclear Energy and Climate Change: South Korea's Greenhouse Gas Reduction Commitment	Inhwan Ko	Energy	Yonsei University	Korea	IK0376
	SS06-A-3	Topaz	June 11 (Mon.)	10	16:50-17:00	The income gap of energy efficiency improvement in South Korea: An analysis of rebound effects estimated by the modified nonlinear model	Sang-Hyeon Jin	Energy	Kyungpook National University	Korea	AK0127
	SS06-A-4	Topaz	June 11 (Mon.)	10	17:00-17:10	The energy-related aid and Electricity access: Is climate compatible development possible?	Dmitriy Li	Energy	Chonnam National University	Korea	AK0723
	SS06-A-5	Topaz	June 11 (Mon.)	10	17:10-17:20	Study on Management of Charging Demand according to Introduction of Electric Vehicle: Application of Agent-Based Model	Youngsik Nam	Energy	Chungbuk Research Institute	Korea	AK0716
	-	Topaz	June 11 (Mon.)	10	17:20-17:30	Discussion					
	SS06-A-6	Topaz	June 11 (Mon.)	10	17:30-17:40	Valuing the environmental benefits of the particulate matter emissions reduction of natural gas-fired power in Korea: A contingent valuation study	Hyo-Jin Kim	Energy	Seoul National University of Science & Technology	Korea	AK0511
	SS06-A-7	Topaz	June 11 (Mon.)	10	17:40-17:50	Assessing the external benefits of small scale photovoltaic systems installation: A choice experiment study	Hyejeong Lee	Energy	Seoul National University of Science & Technology	Korea	AK0519
	SS06-A-8	Topaz	June 11 (Mon.)	10	17:50-18:00	Eco-Efficiency of Healthcare Sector in South Korea	Jong-Ryool Kim	Energy	Ministry of Environment	Korea	IK0683
	SS06-A-9	Topaz	June 11 (Mon.)	10	18:00-18:10	The role of financial investment in the development of renewable energy capacity	Taedong Lee	Energy	Yonsei University	Korea	IK0377
	SS06-A-10	Topaz	June 11 (Mon.)	10	18:10-18:20	Investigating factors on renewable energy penetration : the impacts of public R&D, policy instruments and market structure	Hanee Ryu	Energy	Hanyang University	Korea	AK0522
-	Topaz	June 11 (Mon.)	10	18:20-18:30	Discussion						

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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
SS06-B	SS06-B	Topaz	June 12 (Tue.)	110	16:50-18:40	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and Integrated Waste and Energy Policy	Taehwa Lee	Energy	University of Seoul	Korea	-
	SS06-B	Topaz	June 12 (Tue.)	110	16:50-18:40	Special Symposium-Circular Economy - A Paradigm Shift towards Sustainable and Integrated Waste and Energy Policy	Sirintornthep Towprayoon	Energy	King Mongkut's University of Technology Thonburi	Thailand	-
	SS06-B-1	Topaz	June 12 (Tue.)	10	16:50-17:00	A News Perspective of Landfill and Landfill Mining for Energy Purpose	Sirintornthep Towprayoon	Energy	King Mongkut's University of Technology Thonburi	Thailand	IF0815
	SS06-B-2	Topaz	June 12 (Tue.)	10	17:00-17:10	Remodelling the Municipal Waste By-laws Based on the Integrated Waste Management and Waste-to-Energy Concepts: A Paradigm Shift for Thailand towards Circular Economy	Chacrit Sitdhiwej	Energy	Thammasat University	Thailand	IF0362
	SS06-B-3	Topaz	June 12 (Tue.)	10	17:10-17:20	Waste Management in High Altitude Cites -challenges and opportunities for Low Carbon Growth	Sonam Wang	Energy	Bhutan Institute of Himalayans Studies	Bhutan	IF0928
	SS06-B-4	Topaz	June 12 (Tue.)	10	17:20-17:30	Korea's Resource Circulation Trends and National Plan	Sora Yi	Energy	Korea Environment Institute	Korea	IK0123
	-	Topaz	June 12 (Tue.)	10	17:30-17:40	Discussion					
	SS06-B-5	Topaz	June 12 (Tue.)	10	17:40-17:50	Biomass waste as an Energy Material	Seong Ok Han	Energy	Korea Institute of Energy Research	Korea	IF0580
	SS06-B-6	Topaz	June 12 (Tue.)	10	17:50-18:00	BECCS potential in South Korea: Achieving negative emissions based on bioenergy from forest biomass	Woo-Kyun Lee	Energy	Korea University	Korea	IK0843
	SS06-B-7	Topaz	June 12 (Tue.)	10	18:00-18:10	Circular Economy and Energy Transition Nexus with focus on Non-Energy Use of Fuels	Wei-Ming Chen	Energy	University of Delaware	USA	AF0249
	SS06-B-8	Topaz	June 12 (Tue.)	10	18:10-18:20	Energy-Environment-Society Relations in an Early Modern Korea: A Lesson Learned from the Electrification of Seoul, 1876-1905	Taehwa Lee	Energy	University of Seoul	Korea	AK0182
	-	Topaz	June 12 (Tue.)	20	18:20-18:40	Discussion					
SS07-A	SS07-A	Diamond1	June 12 (Tue.)	95	13:20-14:55	Special Symposium-Best Management Strategy for Environmental Management of Carcass Burial Site	Geonha Kim	Environment	Hannam University	Korea	-
	SS07-A	Diamond1	June 12 (Tue.)	95	13:20-14:55	Special Symposium-Best Management Strategy for Environmental Management of Carcass Burial Site	Phillip Longhurst	Environment	Cranfield University	UK	-
	SS07-A-1	Diamond1	June 12 (Tue.)	5	13:20-13:25	Welcome Remarks (Convener)	Geonha Kim	Environment	Hannam University	Korea	-
	SS07-A-2	Diamond1	June 12 (Tue.)	25	13:25-13:50	A review of emerging chemical risks potentially impacting on the environment of South Korea	Jason Weeks	Environment	JNCC	UK	IF0255
	SS07-A-3	Diamond1	June 12 (Tue.)	25	13:50-14:15	Assessing the effect of carbon and nitrogen discharge from livestock mortalities on nitrogen dynamics in soil	Saikat Chowdhury	Environment	Sher-e-Bangla Agricultural University	Bangladesh	AF0031
	SS07-A-4	Diamond1	June 12 (Tue.)	20	14:15-14:35	Dynamics of nitrous oxide, methane, and carbon dioxide from poultry carcass composting under different burial condition	Changyoon Jeong	Environment	Louisiana State University	USA	AF0900
SS07-A-5	Diamond1	June 12 (Tue.)	20	14:35-14:55	Probilistic assessment of potential leacheate leakage from livestock mortality burial pits; a supervised classification approach using a Gaussian mixture model (GMM) fitted to a groundwater quality	Hyunkoo Kim	Environment	National Institute of Environmental Research	Korea	AK0148	

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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
SS07-B	SS07-B	Diamond1	June 12 (Tue.)	95	15:10-16:45	Special Symposium-Best Management Strategy for Environmental Management of Carcass Burial Site	Hyun-Woo Kim	Environment	Chonbuk National University	Korea	-
	SS07-B	Diamond1	June 12 (Tue.)	95	15:10-16:45	Special Symposium-Best Management Strategy for Environmental Management of Carcass Burial Site	Jason Weeks	Environment	JNCC	UK	-
	SS07-B-1	Diamond1	June 12 (Tue.)	25	15:10-15:35	Decision framework to inform disposal options for animal carcass disposal: Case study in the Republic of Korea	Phillip Longhurst	Environment	Cranfield University	UK	IF0891
	SS07-B-2	Diamond1	June 12 (Tue.)	25	15:35-16:00	Evolution of Composting from a Novelty to a Leading Carcass Disposal Method and the Role of Aboveground Burial during Future Animal Disease Outbreaks	Gary Flory	Environment	Virginia Department of Environmental Quality	USA	IF0168
	SS07-B-3	Diamond1	June 12 (Tue.)	20	16:00-16:20	Combining biodiesel and biogas production to treat rendered lipid of the carcass for eco-friendly termination of burial sites	Hyun-Woo Kim	Environment	Chonbuk national university	Korea	IK0064
	SS07-B-4	Diamond1	June 12 (Tue.)	20	16:20-16:40	A pilot scale stabilization of previously burial-treated infected carcass wastes with a novel sequential ex-situ bio-augmented composting	Seonghoon Kim	Environment	Yonsei University	Korea	AK0437
	-	Diamond1	June 12 (Tue.)	5	16:40-16:45	Discussion					
SS08	SS08	Coral	June 12 (Tue.)	95	15:10-16:45	Special Symposium-Thermochemical and Biological Conversions of Wastes on Energy Recovery, and Pollution Control	Hang Seok Choi	Environment	Yonsei University	Korea	-
	SS08	Coral	June 12 (Tue.)	95	15:10-16:45	Special Symposium-Thermochemical and Biological Conversions of Wastes on Energy Recovery, and Pollution Control	Ha-Na Jang	Environment	Yonsei University	Korea	-
	SS08-1	Coral	June 12 (Tue.)	15	15:10-15:25	Suppression of char agglomeration during pyrolysis of lignin	Seyoung Park	Environment	University of Seoul	Korea	AK0670
	SS08-2	Coral	June 12 (Tue.)	15	15:25-15:40	Plastic-derived carbon nanotubes as a bifunctional electrocatalyst for hydrogen evolution and oxygen reduction reactions	Vida Krikstolaityte	Environment	Nanyang Technological University	Singapore	AF0305
	SS08-3	Coral	June 12 (Tue.)	15	15:40-15:55	Sorption of Pb on biochar: production, optimization and application	Reinhart Van Poucke	Environment	Ghent University	Belgium	AF0314
	SS08-4	Coral	June 12 (Tue.)	15	15:55-16:10	Novel mechanism of tar conversion during molten salt pyrolysis/gasification of solid waste and biomass	Mian Xu	Environment	University of Science and Technology	China	AF0354
	SS08-5	Coral	June 12 (Tue.)	15	16:10-16:25	Optimization of hydrothermal conditions of primary sludge for bio-gas production using RSM study	Munsik Park	Environment	Yonsei University	Korea	AK0722
	SS08-6	Coral	June 12 (Tue.)	15	16:25-16:40	Speciation Changes and Capture of Mercury with Virgin and KI-impregnated Activated Carbon Injection	Ha-Na Jang	Environment	Yonsei University	Korea	IK0189
-	Coral	June 12 (Tue.)	5	16:40-16:45	Discussion						

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Code1	Code3	Session Room	Date	Time1	Time2	Session/Presentation Title	Name	Topic	Affiliation	Nation	Abstract Code
SS09	SS09	Sapphire	June 12 (Tue.)	95	15:10-16:45	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Sang Ryong Lee	Bioresources	Jeonju University	Korea	-
	SS09	Sapphire	June 12 (Tue.)	95	15:10-16:45	Special Symposium-Agro-biotechnology Convergence: Animal, Crop, and Soil	Joungdu Shin	Bioresources	National Institute of Agricultural Sciences	Korea	-
	SS09-1	Sapphire	June 12 (Tue.)	-	ON-SITE	Long-term application of biochar and biochar-compost mixture on cotton production and nutrient runoff losses	Changyoon Jeong	Bioresources	Louisiana State University	USA	AF0418
	SS09-2	Sapphire	June 12 (Tue.)	-	ON-SITE	Characteristics of nutrient release from biochar pellet as slow release fertilizer	Joungdu Shin	Bioresources	National Institute of Agricultural Sciences	Korea	AK0055
	SS09-3	Sapphire	June 12 (Tue.)	-	ON-SITE	The management of phosphorus in poultry litter	Nanthi Bolan	Bioresources	Global Centre for Environmental Remediation (GCER)	Australia	IF0597
	SS09-4	Sapphire	June 12 (Tue.)	-	ON-SITE	Sorption and mobility of veterinary pharmaceuticals in soil	Jaehoon Lee	Bioresources	University of Tennessee	USA	AF0057
	SS09-5	Sapphire	June 12 (Tue.)	-	ON-SITE	Characterization of urease-producing bacteria to precipitate calcium carbonate isolated from mine impacted soils	In-Hyun Nam	Bioresources	Korea Institute of Geoscience and Mineral Resources	Korea	AK0081
	SS09-6	Sapphire	June 12 (Tue.)	-	ON-SITE	Trend and application of QuEChERS combined with tandem mass spectrometry to persistent organic pollutant analysis	Leesun Kim	Bioresources	Ulsan National Institute of Science and Technology (UNIST)	Korea	AK0308
	SS09-7	Sapphire	June 12 (Tue.)	-	ON-SITE	Exposure to antimicrobial triclosan reduces the diversity of activated sludge	Donggeon Choi	Bioresources	Kyung Hee University	Korea	AK0667
SS10	SS10	Emerald	June 12 (Tue.)	95	17:05-18:40	Special Symposium-Biosolids Land Application Risk Assessment – Evaluation of (In)organic Compounds	Jim Ippolito	Bioresources	Colorado State University	USA	-
	SS10-1	Emerald	June 12 (Tue.)	20	17:05-17:25	The potential value of biosolids for carbon sequestration	Nanthi Bolan	Bioresources	Global Centre for Environmental Remediation (GCER)	Australia	AF0044
	SS10-2	Emerald	June 12 (Tue.)	15	17:25-17:40	Efficacy and Concerns of Sludge-derived Biochar in Field	Daniel Tsang	Bioresources	Hong Kong Polytechnic University	Hong Kong, China	IF0104
	SS10-3	Emerald	June 12 (Tue.)	15	17:40-17:55	Virginia's Biosolids Land Application Program: Regulating the Land Application of Biosolids to Protect Citizens and the Environment	Gary Flory	Bioresources	Virginia Department of Environmental Quality	USA	IF0345
	SS10-4	Emerald	June 12 (Tue.)	15	17:55-18:10	Meta-Analyses of Biosolids Effect in Dryland Wheat Agroecosystems	Jim Ippolito	Bioresources	Colorado State University	USA	AF0042
	SS10-5	Emerald	June 12 (Tue.)	15	18:10-18:25	Long-term impact of sewage sludge application on Rhizobium and soil microbial biomass: An evaluation using meta-analysis	Ruben Sakrabani	Bioresources	Cranfield University	UK	IF0074
	-	Emerald	June 12 (Tue.)	15	18:25-18:40	Discussion					