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Registration ID	Title	Author	Institution	Co-Author	Institution
01 Waste utilization and treatment					
Online talk and poster (18h, 10:30-12:00) and Poster (18h, 16:00-17:00)					
000043	Evaluation of waste incineration system with CO ₂ /CO ₂ combustion and CO ₂ capture technologies	Tetsushi Takano	Osaka University	Osaka University	Graduate School of Engineering, Kyoto University
000050	Optimizing Land Extraction from Fat Balis as a Sustainable Biorenewable Resource	Fabrian Hidayat	Universitas Indonesia	Universitas Indonesia	Kyoto University
000057	Effect of Granular Activated Carbon on Methane Fermentation Efficiency with High and Low Organic Load Conditions	Hidayat	Universitas Indonesia	Universitas Indonesia	Toyoohashi University of Technology
000058	Characteristics of cellulose content and extraction in wood biomass resources in Korea	Kyungsook Kim	Chonnam National University	Chonnam National University	Chungnam National University
000061	Sustainable Utilization of Fe-Rich Automotive Industrial Waste for Synthesizing Advanced Ceramic Pigments and Environmental-Friendly Management	Srinan	Chonnam National University	Chonnam National University	Chonnam National University
000107	Conversion of PET waste into the effective adsorbent to remove heavy metals in the contaminated water	Jae Hwan Yang	Chonnam National University	Chonnam National University	Chonnam National University
000065	Higher order use of degraded plastic (Styrofoam) as insect repellent	Mitsutake Jun	Sony Group Corporation	Sony Group Corporation	Sony Group Corporation
000102	CO ₂ Mineralization for Production of CaCO ₃ using Oyster Shell Waste	Jun	Sony Group Corporation	Sony Group Corporation	Department of Chemical and Biomolecular Engineering, Yonsei University, Seoul, Republic of Korea
Online talk (18h, 10:30-12:00)					
000066	Livestock manure processing methods and the use of processing by-products in Japan	Ikumi	Sasaki	Sasaki	Japan Industrial Waste Information Center
000092	Efficient Removal of Methyl orange by Shrimp Shell-derived Adsorbent: Adsorption Isotherm, Kinetics, and Mechanism	Paradi Kaniawati	Universitas Indonesia	Universitas Indonesia	Global Engineering for Development, Environment, and Society, Tokyo Institute of Technology
000070	Impacts of interactivity between activation energy, biomass decomposition and gas composition during anaerolysis	Muhammad Imal Basus	Setawan	Setawan	Tokyo Institute of Technology
000091	Consumption & carbon footprint of plastic packaging by food delivery in Korea	Yuhun	Sora	Sora	Dept. of Environmental & IT Engineering, Chungnam National University
000114	Evaluation of resource utilization of livestock and poultry wastes in China	Yuhan	Yuhan	Yuhan	Academy of Agricultural Planning and Engineering, MARA
02 Demolition, disaster, industrial, hazardous waste					
Online talk and poster (18h, 10:30-14:30) and Poster (18h, 16:00-17:00)					
000094	Novel CO ₂ Mineralization Techniques for Upcycling Construction Waste and By-products into Cement-Based Materials	Nisharhan Danila	Myyaganam	Myyaganam	Hokkaido University
000091	Chemical Resistance and Durability Performance of Graphene Enhanced Concrete	Daniela	Universitas Indonesia	Universitas Indonesia	University of Melbourne
000035	Greenhouse gas emissions from marine plastic collection and recycling: case studies in Tsushima and Osaka Bay, Japan	Katsuyuki Arai	Niigata	Niigata	Ritsumeikan University
000080	Dynamic of River Waste in Jakarta: Quantity and Environmental Influences	Alif Pe	Faiz	Muhammad	National Institute for Environmental Studies
000047	Effects of Si/Al ratio on immobilization of Se in woody biomass fly ash based geopolymers	Yihan	Yihan	Yihan	Kyoto University
000048	The Chemical Speciation of As, Zn and Ni with Dredged Sediment by the Hydrothermal Technology (HTT)	Hiye Won	Park	Park	University of Seoul
000014	Effect of Temperature Rise on Arsenic Reaction and Speciation Changes in Paddy Soil	Chamni	Chamni	Chamni	Department of Environmental and IT Engineering, Chungnam National University
000044	Study on Adsorption Properties of Bleached Modified Materials	Jaei	Woo	Woo	The University of Tokyo
000064	A Study on the Stabilization Effects of As-Contaminated Soil Treated with Fe-Steel Slag and Ecosta-A: Utilizing Bioconcentration Factor(BCF)	Jeong Hyun	LEE	LEE	University of Seoul in Korea
000062	Thermal mineralization of CO ₂ -exchanged zeolite: IX with/without clay minerals	Miyu	Park	Park	Department of Environmental Engineering, Chungnam National University
Online talk (18h, 10:30-14:30)					
000012	E-waste management in Viet Nam Capital, Hanoi	Souashahone	Souashahone	Souashahone	University of Natural Resources and Life Sciences Vienna
000110	Graphene Oxide for Strength Reinforced Aggregate Concrete	Kanta	Litara	Tabata	University of Melbourne
000036	Simple Detection Method of Asbestos for Disaster Waste Building Materials	Masaaki	Masaaki	Masaaki	Saga University
000077	Effect of allying modified soil fly ash on water retention capacity and desiccation crack formation of soil	PU	YANG	YANG	Tokyo Institute of Technology
000038	Separation of Strontium and Cesium Using Oxym Ethox Functionalized Mesoporous Silica from Aqueous Waste Matrices	Rashedul Islam	Rison	Rison	Institute of Environmental Radioactivity, Fukushima University
03 Technology					
Online talk and poster (17h, 8:00-10:30) and Poster (18h, 16:00-17:00)					
000049	Conversion of Polyvinyl Alcohol and Substratum Waste: Prospects for Products Recycling from Bioplastic Hydrolysis	Fan	Fan	Wu	The University of Tokyo
000061	Behavior of Mercury in Carbon Capture Process for Municipal Solid Waste Incinerator	Kenta	Kenta	Funaki	Department of Environmental Engineering, Graduate School of Engineering, Kyoto University
000100	Investigation of microplastics from granulated virgin materials and aged samples in digestion system: are they different?	Long	Yu	Yu	Institute of Chemistry, Henan Academy of Sciences
000054	Research on the development of data infrastructure for the proper disposal and long-term use of waste photovoltaic panels	Yuko	Saito	Saito	Tohoku University
000016	Observation of changes in arsenic speciation according to various microbial metabolic conditions in paddy soil	Hayami	Hayami	Hayami	Chungnam National University
000108	A Numerical Framework for modelling chloride transportation in alkali-activated slag concrete	Bin	Dong	Dong	The University of New South Wales
000109	Sustainable Design Optimization for Engineering Structures Considering Embodied Carbon	Eyong	Zhao	Zhao	Centre for Infrastructure Engineering and Safety, School of Civil and Environmental Engineering, The University of New South Wales
000069	Optimizing Precast Box Girder Design: Plastic Bag Identification with Detection Transformer	Bas	K	Duong Gia	School of Engineering, Royal Melbourne Institute of Technology (RMIT) University
000046	Biomimicry for Sustainable Seas: Harnessing Microbial Biodegradation to Combat Plastic Pollution in Da Nang City, Vietnam's Coastal Waters	Bas	Meduhun Priyankara Rathnayaka	Meduhun Priyankara Rathnayaka	RMIT University
000072	Enhancing Fly Ash-Based Geopolymer Concrete Performance through Machine Learning: A Predictive Model for Compressive Strength and Workability	Tajir	Tajir	Tajir	RMIT University
000062	A Treatment of Antibiotic Contaminated Synthetic Wastewater Using Electrochemical Process	Won Yong	Choi	Choi	Yonsei University
000067	Stabilization of Desulfurization Wastewater through Mineral Carbonation	Sera	Sera	Phanphai	School of Global Urban and Social Studies, RMIT University, City Campus, Melbourne, Australia
000095	Enabling Secondary Digital Platform for a Circular Construction Economy: A Social Perspective	Sera	Phanphai	Phanphai	School of Global Urban and Social Studies, RMIT University, City Campus, Melbourne, Australia
Online talk (17h, 8:00-10:30)					
000080	Investigation Into the Interactions during co-Hydrothermal Carbonization of Polyvinyl Chloride and Biomass: Effect of Biomass Components	Hao	Xu	Xu	Tokyo Institute of Technology
000063	Mathematical model of municipal solid waste	Kana	Kana	Kana	Hokkaido University
000082	Emission Resources Utilization to Climate Change Responses	Kayuya	Yasuhara	Yasuhara	Nara University, Japan
000058	The investigation of shear strength parameter for municipal solid waste from open dumpsites using direct shear test apparatus	Parichat	Parichat	Parichat	The Joint Graduate School of Energy and Environment (JGSEE) King Mongkuts University of Technology (Thonburi)
04 LOA and Flow Analysis					
Online talk and poster (17h, 11:00-12:30) and Poster (18h, 16:00-17:00)					
000042	Life Cycle Assessment of Municipal Solid Waste Management in Phnom Penh, Cambodia	Srey Pich	Pouine	Pouine	The University of Tokyo
000042	Optimal Solid Waste Management Scenarios for Subic Bay Freeport Zone, the Philippines	Janelle Abby	Tan	Tan	The University of Tokyo
000034	The trade-off analysis between plastic recycling and material substitution for decarbonization based on life cycle assessment and equilibrium point analysis	Kabirina	Hirata	Hirata	The University of Tokyo
000044	Environmental benefits from plastic waste recycling pathways in Japan	Ohbayashi	Zhang	Zhang	Department of Urban Engineering, The University of Tokyo
000056	A Year-Long Evaluation and Lessons Learned of Solid Waste Management Database System Operation in the Western Province of Sri Lanka	Akifumi	Kanachi	Kanachi	International Information Division, EX Research Institute Ltd.
000015	Cost-benefit analysis of establishing Material Recovery Facilities for Municipal Solid Waste in Chatterang City, Bangladesh	Md	Saiful Islam	Saiful Islam	Graduate School of Global and Regional Studies, Toyo University, Toyo, Japan
000015	Field Survey on the Disposal Status of Used Portable Batteries from Households	Junya	Yano	Yano	Kyoto University
000071	Environmental Assessment of a Local Resource Circulation Scheme: a Case Study on Interaction of Anaerobic Digestion and Rice Cultivation in Keluhou, Korea	Wansoo	Jun	Jun	Kyoto University
000062	Material Flow Analysis of Lithium in Latin America	Estefania	Oronara	Oronara	Tohoku University
000078	Life cycle analysis of food containers made of biodegradable plastic, poly(3-hydroxyvalyrate-co-3-hydroxybutyrate) (PHBH)	Daichi	Yamada	Yamada	Kyoto University
000092	Material flow analysis and life cycle assessment of PET bottles in South Korea	Gyeonghee	Lee	Lee	Chungnam National University
000018	Revealing the hidden flows under China's sustainable mobility transition	Biao	Biao	Biao	Tohoku University
Online talk (17h, 11:00-12:30)					
000053	Current recyclable waste flow in central Vietnam - Potential for heading toward circular economy	Quang	Dinh	Le	Graduate School of Environmental and Life Science, Okayama University
000053	Analysis of Informal Waste Sector in Bantul Regency City Using Pressure-State-Response (PSR) Framework, Indonesia	Quang	Muhammad	Muhammad	The University of Kitakyushu
000033	Development of plastic waste generation distribution model using remote sensing data product and machine learning	Florida	Auwina	Auwina	Air and Waste Management Research Group, Faculty of Civil and Environmental Engineering, Institut Teknologi Bandung
000041	Environmental Impact Analysis of Domestic Waste Services in Indonesia: Multiple Comparison between Door-to-door and Drive-off System	Fitra	Fitra	Fitra	Graduate Programs in Environmental System, Graduate School of Environmental Engineering, The University of Kitakyushu
000075	Development and recovery of organic waste through household composting in the cities of developing countries: circular economy	Dhruv Rai	Dhruv Rai	Dhruv Rai	Centre of Research for Environment, Energy and Water (CREEW), Noida
05 Policy and behavior (mainly system analysis)					
Online talk and poster (17h, 10:30-12:00) and Poster (18h, 16:00-17:00)					
000055	Comparison of life cycle greenhouse gas emission between reusable tumblers and single-use cups considering attached lids and straws	Junichiro	Koshiba	Koshiba	Kyoto University
000062	Study on public environmental awareness and behavior towards residual plastic circulation: the case of Kurume City, Japan	Takuro	Hayashi	Hayashi	Kyushu University
000013	Critical Path of a Circular Economy for Plastic	Tomohiko	Tabata	Tabata	Kobe University
000014	Survey and analysis on the use and disposal of plastic shopping bags before and after the introduction of charges	Jun	Nakano	Nakano	The University of Tokyo
000012	Differences in consumption behavior toward branded toothbrushes among Japan, Bulgaria, and France	Yugo	Yui	Yui	Graduate School of Global Environmental Studies, Kyoto University
000083	Africa's Contribution to Waste Reduction: A Case of Plastic Recycling in Dougou, Benin	Riba	Hirao	Hirao	Graduate School of Asian and African Area Studies, Kyoto University
000016	Impact of the 2009 plastic bag ban on the amount of plastic bags from the material aspect of plastic bag	Hirotaka	Kumano	Kumano	AiKa University
000045	Decoding Resident Behavior and Motivation in Waste Management: A Logistic Regression Approach	Made Adi	Widyanata	Widyanata	Jordan Institute of Technology Dahi
000010	Analysis of Household's Participation for Source Separation towards quality compost production under the organic farming policy in Sri Lanka	Fernando	Chamila	Chamila	Toyo University
000018	Exploring the Path of Privacy Concerns on Chinese Consumers' Intention to Recycle Obsolete Cell Phones	Yuxin	Hu	Hu	Okayama University
000117	Drivers to Consumer Environmental Intention and Behavior: a systematic review	JIE	SUN	SUN	Kyoto University
000101	Understanding Intention in Purchasing: A SMART evaluation of Australian governmental purchasing policies	Aryana	Shahin	Shahin	PhD candidate at Deakin Univ, Vic, Aus
Online talk (17h, 14:00-16:30)					
000087	The trend and current situation of food waste utilization in Japan	Yusui	Du	Du	Okayama University
000092	Analysis of Plastic Recycling Business Feasibility in the Pacific Island Countries: A Case Study in Samoa	Isobei	Watanabe	Watanabe	Tokyo university
000118	Improvement of waste collection and its impacts on citizen's behavior: case study of Broj Village, Dragash Municipality, Kosovo	Re	Kawanishi	Kawanishi	EX Research Institute Ltd.
06 DC on NIER and KU					
000084	Optimization of wide-area treatment of municipal solid waste in Japan toward 2050	Yasuhiko	Hirai	Hirai	Kyoto Univ.
000059	Carbon emission reduction potential of China's cement industry by utilizing municipal solid waste (MSW) at the provincial levels	Yunxi	Zhou	Zhou	Department of Urban Engineering, the University of Tokyo
000105	Attributes for assessing zero waste targets in construction projects	Nimmi	Weerasinghe	Weerasinghe	RMIT University
000068	Driving Towards Net-Zero: Assessing GHG Emission Reduction Potential through Circular Economy Strategies in China and Japan's Passenger Car Sector	ZYAN	HE	HE	The University of Tokyo
000116	Impact of recycling intensity on material circulation: A case study of carbon neutral society	Naucheng	Xu	Xu	National Institute for Environmental Studies, Japan
000017	Investigating dematerialization pathways towards a carbon-neutral society	Sho	Hata	Hata	National Institute for Environmental Studies, Japan
04 Waste (Kajit, Shah and Lu (TREMS hub))					
000112	See Energy Valorization of Grass Clippings	Lu	Jave	Jave	The University of Melbourne
000072	Exploration of pyrolysis characteristics of Eucalyptus coffee residues for their simultaneous waste treatment and revalorization	Shojo	Kunagai	Kunagai	Tohoku University
000039	The effects of microcurrent bioelectric stimulation on AD performance	Jae Hye	KO	KO	Yon National University
07 Envisi Solenex Setupan (TREMS hub)					
000023	Infiltration of recycled concrete aggregates blended with autoclaved aerated concrete granules for roadbed materials in Vietnam	Van Nam	Pham	Pham	Saitama University
000072	A Study on the application of spectral indices for monitoring stabilized soil with oyster shell	Woon	Cho	Cho	University of Seoul
000069	Coupled Kinetic-Thermodynamic Model for Analysis and Design of Low-Carbon Concrete Incorporating Industrial Waste	Yugo	Yugo	Yugo	School of Engineering, RMIT University, Melbourne, Victoria 3000, Australia
000027	Study on Chloride Ion Diffusion Characteristics of New Cement Free Binder Made of Slag and Calcite	Sivethiratharaj	Krishna	Krishna	Division of Sustainable Resources Engineering, Faculty of Engineering, Hokkaido, Japan University
000103	Utilization of Recycled Glass and Polymer Wastes from Crystalline Silicon Photovoltaic Modules in Expansive Soil Stabilization - An Overview	Dushan	Nimesha	Nimesha	Royal Melbourne Institute of Technology (RMIT) University
000068	Remediation of Arsenic-Contaminated Excavated Soil Using Biodegradable Surface-Plus Chelator	Shafiqar	Fabian	Fabian	Institute of Science and Engineering, Kenesaara University
08 Social (Ralph Horne (TREMS hub))					
000040	The new socio-economic relations develop between restaurateurs and farmers - The increased agricultural waste wastes after the 'Green revolution' in no	Bumko	Murao	Murao	Research Institute of Humanity and Nature
000037	Using Optimal Promotion Strategies for Reusable Cup Rental System: A Randomized Survey Experiment in Taiwan	Hsin-Tien	Lin	Lin	National Cheng Kung University
000063	Exploring Japanese consumers' awareness of sharing goods	Aga	Yoshida	Yoshida	National Institute for Environmental Studies
000020	Analysis of Household's Recycling Attitudes Towards Source Segregation: Case Study Samoa	Bhavana	Sapna Tavali	Sapna Tavali	Master Student, Department of Regional Development Studies, School of Global and Regional Studies, Toyo University
000073	Valorization of underutilized fish and by-product through gastronomy innovation: Benefits and challenges	Oscar	Tsu	Tsu	Tohoku University
000077	Toward Sustainable Sanitation Policy Approaches to Sanitary Waste Management in India	Prati	Prati	Prati	Academy of Scientific and Innovative Research (AcSIR) Ghaziabad-201002, India
010 DC on Kennerly, Melbourne and Ishi					
000063	IA Geospatial Approach to Assessing Landfill Mining Feasibility: The Buriram Landfill Experience	KOMSLIP	WANGYAO	WANGYAO	The Joint Graduate School of Energy and Environment, King Mongkuts University of Technology (Thonburi)
No response					
000088	A study on the activity index of waste glass powder (WGP) with different particle sizes and its influence on the alkali-activated reaction (ASR) in blended C	Suanrui	Zhang	Zhang	The University of New South Wales
000090	Mechanical response of waste tyre rubber reinforced cemented rockfill	Vidyanagamage	Mithusha Karanata	Wickramasinghe	waste management, University of Southern Queensland
000114	Examining the Impact of Fly Ash in Class Fine Aggregate Mortar	Shanaka	Kristumudu Baduge	Kristumudu Baduge	University of Melbourne
000093	Waste Flow Analysis and Optimal Location Analysis of Bins in a Barangay in Manila, Philippines - Towards Improvement of Material Recovery Systems	GUY, Jeremy	Bernardo	Bernardo	Institute of Civil Engineering, University of the Philippines Diliman