Main Conference Programme

Day 1: 02 Dec 2024 (Venue: The Hong Kong Polytechnic University)						
0730- 0900	Registration (Chiang Chen Studio Theatre)					
0900-0955	Opening Ceremony (Chiang Chen Studio Theatre)					
0900-0905	Opening Address: Chair - Prof. Jonathan Wong, Dongguan University of Technology & Hong Kong Baptist University					
0905-0910	Welcome Speech: Prof. Ashok Pandey, General Chair, International Bioprocessing Association					
0910-0925	Opening Speech: Dr. Samuel Chui, Director, Hong Kong Environmental Protection Department					
0925-0955	Opening Keynote Speech: A3201/ Prof. Roger Ruan/ United States/ Waste Valorisation for Circular Economy Development					
0955-1030	Group Photo and Coffee Break					
1030-1230	Keynote Session: Chair – Prof. Jonathan Wong (Chiang Chen Studio Theatre)					
1030-1100	Keynote Speech 1: A1213/ Prof. Huu Hao Ngo/ Australia/ Insightful Exploration of Algae in Circular Economy					
1100-1130	Keynote Speech 2: A1917/ Prof. Ashok Pandey/ India/ Sustainable Solid Waste Management: A Case Study in India					
1130-1230	International Bioprocess Association Award Presentation Ceremony 2024 (Prof. Ashok Pandey)					
1230-1400		Lunch (1230-1330) and Poster Viewing (1300-1400, Room: Room CD302 and CD303)				
	Session A – Room: HJ302		Session B – Room: HJ303		Session C – Room: HJ304	
1400-1535	**A1: Bioprocesses and Products Development** **Chair:** Prof. Huu Hao Ngo **Co-Chair:** Prof. Arun Goyal		**B1: Biofuels and Biorefineries** **Chair:** Prof. Apostolis Koutinas **Co-Chair:** Prof. Rajeshwar Dayal Tyagi		**C1: Anaerobic Digestion** **Chair:** Prof. Roger Ruan **Co-Chair:** Dr. Lu Feng	
1400-1425	P1	Plenary Lecture: A104/ Prof. Rui F Oliviera/ Portugal/ Physics-informed Neural Networks (Pinns) for Bioprocess Digitalization	P6	Plenary Lecture: A1528/ Prof. Dan Tsang/ Hong Kong/ Renewable Hydrogen Production from Food Waste	P11	Plenary Lecture: A2007/ Prof. Helene Carrere/ France/ Feedstock Preparation for Dry Batch Anaerobic Digestion in Leach Bed Reactor: From Lab-Scale to Full Scale Application
1425-1445	I1	Invited Lecture: A1301/ Prof. Reeta Rani Singhania/ India/ Bioprospecting of Marine Fungi for Polysaccharide Degrading Enzymes	I9	Invited Lecture: A3021/ Assoc. Prof. Michalis Koutinas/ Greece/ Harnessing the Potential of Biochar as an Advanced Functional Immobilization Carrier for Cells and Enzymes in Bioethanol and Starch Hydrolysis Bioprocesses	I17	Invited Lecture: A2025/ Assoc. Prof. Suyun Xu/ China/ Optimization of Loading Rate and Food Waste-Sludge Ratio in CO2-Enhanced Anaerobic Digestion Systems

1445-1505	I2	Invited Lecture:A033/ Prof. Xuan Wang/ China/ Diminishing Heavy Metal Co-resistance Aids in Antibiotic Resistome Elimination from Manure	I10	Invited Lecture:A1929/ Prof. Tianwei Hao/ China/ Non-Equilibrium Thermodynamic analysis of Anaerobic Membrane Bioreactors for Sulfate-Laden Wastewater Treatment	I18	Invited Lecture: A1518/ Prof. Panyue Zhang/ China/ Adaptability of Anaerobic Digestion to Aquatic Plant Species and Its Strengthening Measures
1505-1520	O1	A203/ Dr. Yi-Sheng Tseng/ Taiwan, Province of China / The Development of Bioprocess to Synthesize Microalgae-Bacterial Cellulose Bio-Floccules	O19	A1508/ Dr. Davidraj Johnravindar/ India/ Hydrochar Enhanced Hydrogen Production from Cassava Industrial Waste Residue Using *Enterobacter Aerogenes MTCC 2822*	O37	A1501/ Assoc. Prof. Le Zhang/ China/ Utilizing Magnetic Field to Enhance Methane Production from Anaerobic Digestion of Nitrogen-Rich Organic Wastes
1520-1535	O2	A702/ Mr Yumnam Robinson Singh/ India/ Unveiling the Biochemical, Structural and Degumming Application Attributes of a Thermostable Xylobiohydrolase, ACGH30A from *Acetivibrio Clariflavus*	O20	A1305/Mr. Aditya Yadav/India/Valorization of Cocoa Pod Husk Biomass for optimized Production and Purification of Xylooligosaccharides	O38	A1001/Dr. Wenyan Zhao/Elevated Caproic Acid Production from One-Stage Anaerobic Fermentation of Organic Waste and Its Selective Recovery by Electro-Membrane Process
1535-1555	**Coffee Break**					
1555-1720	**A2: Bioprocesses and Products Development**		**B2: Biofuels and Biorefineries**		**C2: Anaerobic Digestion**	
	Chair: Prof. Rui F. Oliviera		**Chair:** Prof. Ajay Kalamdhad		**Chair:** Prof. Hans Oechsner	
	Co-Chair: Prof. Fan Lv		**Co-Chair:** Prof. Sang Jun Sim		**Co-Chair:** Assoc. Prof. Suyun Xu	
1555-1615	I3	Invited Lecture:A2029/ Prof. Donghyuk Kim/ Korea/ Explainable Deep Learning Model Leveraging Attention Analysis for NAD/NADP Cofactor Specificity	I11	Invited Lecture: A1401/ Prof. Athanasious A. Koutinas/ Greece/ Bacterial Cellulose Promotional Effect Study on Starch Simultaneous Saccharification –Alcoholic Fermentation without GMO	I19	Invited Lecture: A202/ Prof. In Seop Chang/ Korea, Republic of/ CO Dehydrogenase (CODH) Overexpression Primarily Boosts Up Metabolic Rates in Biological CO_2 Capture via Acetogenesis
1615-1635	I4	Invited Lecture: A609/ Prof. Chunhong Wang / China/ Progress in Development and Application of Blast Fiber Reinforced Bio-Based Composites	I12	Invited Lecture: A1322/ Prof. Apostolis Koutinas/ Greece/ Biorefinery Electrification as a Sustainable and Circular Approach for the Production of Succinic Acid from Crude Renewable Resources	I20	Invited Lecture: A1901/ Prof. Yen Wah Tong/ Singapore/ Improving Food Waste Anaerobic Digestion Efficiency with Biochar in Decentralized Systems
1635-1650	O3	A401/ Assoc. Prof. Hua Li/ China/ Electrochemical Disinfection Modifies and Promotes Community-Wide Permissiveness Towards the Conjugative antibiotic Resistance Plasmid Pkjk5	O21	A1314/ Dr. Susan Grace Karp/ Brazil/ Efficient Saccharification of Aspen Wood and Waste Pulp Using Penicillium *Verruculosum* and *Trichoderma Reesei* Enzyme Preparations	O39	A1511/ Dr. Lu Feng/ China/ Biological Conversion of CO_2 to CH_4: Impact of Process Impurities on in-Stu and Ex-Situ Biofilm-Based Process.

1650-1705	O4	A2902/ Dr. Prarabdh Chandrakant Badgujar/ India/ formulation of A Functional Millet Based Probiotic Dairy Product by Phytase Producing Lactobacilli and assessing Its Impact on Iron Bioavailability in anaemic Rats	O22	A504/Dr. Elisa Clagnan/ Italy/ Microbiologically activated bio-based fertilizers as efficient substitute of chemical fertilization: Application effects on yield and quality of tomato and wheat plants	O40	A2005/ Assoc. Prof. Jingxin Zhang/ China/ Mechanistic Insights into Microbial Extracellular Electron Transfer Enhanced by Iron/Carbon-Based Materials in Anaerobic Digestion Processes
1705-1720	O5		O23	A610/ Miss Olga Psaki/ Greece/ Biotechnological Production of Poly(3-hydroxybutyrate) and Chemical Recycling of Post-consumer Bioplastics	O41	
17:20-19:00				**Poster Viewing (Room Room CD302 and CD303)**		

	Day 2: 03 Dec 2024 (Venue: The Hong Kong Polytechnic University)					
0800-0900	**Poster Viewing**					
0900-1035	**A3: Bioprocesses and Products Development**		**B3: Biofuels and Biorefineries**		**C3: Anaerobic Digestion**	
	Chair: Prof. R.D. Tyagi		**Chair:** Dr. Susan Grace Karp		**Chair:** Prof. Xuan Wang	
	Co-Chair: Dr. Jialin Liang		**Co-Chair:** Prof. Reeta Rani Singhania		**Co-Chair:** Prof. Michael Sauer	
0900-0925	P2	Plenary Lecture: A2018/ Prof. Hans Oechsner/ Germany/ Fibres and Biogas from Separately Collected Municipal Biowaste	P7	Plenary Lecture: A2502/ Prof. Su Shiung Lam/ Malaysia/ Transforming Waste to Wealth: Microalgae for High-Value Products and Eco-Friendly Wastewater Management	P12	Plenary Lecture: A2030/ Prof. Fan Lv / China/ Application of Biochar in Anaerobic Digestion: Challenges During a Lab-to-Field Transition
0925-0945	I5	Invited Lecture: A3559/ Assoc. Prof. Sunita Varjani/ India/ Solid Waste Management: Sustainable Solutions through Innovation and Resilience	I13	Invited Lecture: A1513/ Prof. Sang Jun Sim/ Korea/ Economically and Environmentally Sustainable Biological CCUS by Microalgae towards CO_2-Derived Green Materials	I21	Invited Lecture: A3334/Prof. Hailin Tian/ China/ Enhanced methane production from lignocellulosic straw by acidified food waste coupled with hydrothermal pretreatment
0945-1005	I6	Invited Lecture:A701/ Prof. Arun Goyal/ Structure and Functional analysis of Recombinant Rhamnogalacturonan Acetyl Esterase and Its Role in inhibiting Colon Cancer Cells and Colon-Targeted Drug Delivery by Forming Hydrogels	I14	Invited Lecture: A1207/ Prof. You-Kwan Oh/ Korea, Republic of/ Astaxanthin and Lipid Production for Microalgal Biorefinery: Overcoming Challenges of Complex Life Cycle and Cell-Wall Rigidity	I22	Invited Lecture: A1306/ Prof. Volker F. Wendisch / Germany/ Strain Engineering for Efficient Use of Agricultural and Food Side Streams

1005-1020	O6	A1411/ Assoc. Prof. Jun Zhao/ China/ Photocatalytic Valorization of Biomass-Derived Alcohols	O24	A1201/ Prof. Pradeep Verma/ India/ Sub-Pilot Scale Two-Stage Sequential Cultivation of Microalgal Consortia in Municipal Wastewater: Effects of Seasonal Variations on Nutrient Removal Potential, Biomass and Biomolecules Production	O42	A1512/ Prof. Dongyun Du/ China/ Optimization of Aerobic/Anaerobic System Based on Process Intensification
1020-1035	O7	A1309/ Mrs. Reetu Saini/ Partial Purification and Evaluation of Antioxidant and Probiotic Activities of Oligomers Derived from Pineapple Leaf Waste	O25	A2407/ Dr. Evdokia Syranidou/ Greece/ Developing Tailored Microalgal-Bacterial Communities Towards Sustainable Biological Recycling of Bioplastics	O43	A1925/ Dr. Liwen Luo/ Hong Kong/ Requlating acidogenic fermentation in a two-phase anaerobic system for enhanced food waste-to-energy recovery
1035-1055	**Coffee Break**					
1055-1200	**A4: Bioprocesses and Products Development**		**B4: Biofuels and Biorefineries**		**C4: Biological Waste Treatment**	
	Chair: Dr. Sunita Varjani		**Chair:** Prof. Su Shiung Lam		**Chair:** Prof. Fabrizio Adani	
	Co-Chair: Dr. Leilei Dai		**Co-Chair:** Prof. You-Kwan Oh		**Co-Chair:** Prof. Yonghong Wu	
1055-1115	I7	Invited Lecture: A3102/ Prof. Alain Brillard/ France/ Analysis of the Combustion of Wet Feedstock	115	Invited Lecture: A3013/ Prof. Cheng-Di Dong/ Taiwan, Province of China/ Advanced Applications of Cow Manure-Derived Biochar in Water Treatment: Adsorption and Catalytic Degradation of Organic Pollutants	I23	Invited Lecture: A1202/ Prof. Luciana Vandenbeerghe/ Brazil/ Strategies for Polyhydroxyalkanoates Production in a Biorefinery Concept
1115-1130	O8	A1320/ Dr. Katiana Filippi/ Greece/ Pretreatment of Sawdust Using Deep Eutectic Solvents for Succinic Acid Production	O26	A2106/ Assoc. Prof. Abha Kumari/ India/ Taguchi Orthogonal Design for Optimization of Enzymatic Pretreatment of Marigold Flower Petal for Complete Recovery of Lutein Ester	O44	A1918/ Assoc. Prof. Xiaoqian Zhang/ China/ Recent Advances in Sustainable Recovery of Lignin and Protein from Brewer's Spent Grain
1130-1145	O9	A2601/ Dr. Erminta Tsouko/ Greece/ Innovative Rotary Disk Bioreactor for Enhanced Bacterial Cellulose Production and Its Application in Biopolymeric Packaging Films	O27	A1316/ Prof. Zhiliang Fan/ United States/ Sugar Acid Based Biorefinery	O45	A607/ Mr Sik Chun Johnny Lo / Hong Kong/ Superhydrophobic Membranes from Food Waste-Derived PHBV Biopolymer and Silica Nanoparticles via Co-Electrospinning-Electrospray
1145-1200	O10	A606/ Miss. Yahui Miao/ China/ Enhancing Lactic Acid Tolerance and Sophorolipids Production of Starmerella Bombicola by	O28	A1302/ Miss Aishwarya Aishwarya / India/ an Integrated Approach towards the Co-Production of	O46	A2115/ Mr Mingjiang Zhang/ China/ Regulation on the Production of VFAS from Food Waste

		Atmospheric and Room-Temperature Plasma (ARTP) and Adaptive Laboratory Evolution (ALE)		Green Bioethanol and High-Value Compound, Xylitol from Elephant Grass		Fermentation by Fungal Mash and Its Enhancement on Biological Nitrogen Removal from Wastewater
1200-1400	**Lunch (1200-1300) & Poster Viewing (1300-1400, Room: Room CD302 and CD303)**					
1400-1510	**A5: Thermal Treatment**		**B5: Biofuels and Biorefineries**		**C5: Biological Waste Treatment**	
	Chair: Prof. Tianwei Hao		**Chair:** Prof. Prof. Volker F. Wendisch		**Chair:** Prof Ji Li	
	Co-Chair: Prof. Alain Brillard		**Co-Chair:** Prof. Prof. Zhiliang Fan		**Co-Chair:** Prof. Qiyong Xu	
1400-1425	P3	Plenary Lecture: A3333/Prof. Qunxing Huang/ China/ New pyrolysis system for producing high quality black carbon from end-life-tire	P8	Plenary Lecture: A2027/ Prof. Ajay Kalamdhad/ India/ Waste to Wealth: A Comprehensive Study on Biogas in India	P13	Invited Lecture: A1916/ Prof. Michael Sauer/ Austria/ the Microbial World Shows A Way from Waste to Circularity
1425-1440	O11	A3023/ Dr. Maadeswaran P / India/ Removal of Environmental Pollutants Using Zno/$Bi_2O_2CO_3$-Biochar Generated from Manikara Zapota Peel Hybrid Nanocomposite	O29	A3209/ Dr. Evanthia Nanaki/ Greece/ Exploiting Residual Lipids via thermochemical Processes for Advanced Sustainable Fuels: the Case Study of a Greek Refinery	O47	A103/ Prof. Guangming Zhang / China/ Predicting Photosynthetic Bacteria-Derived Protein Synthesis from Wastewater Using Machine Learning and Causal Inference
1440-1455	O12	A1913/ Dr. Leilei Dai/ China/ Microwave-assisted Pyrolysis of Solid Waste for the Production of Fuels and Chemicals	O30	A1410/ Prof. KA Ramesh Kumar / India/ A Novel Biodiesel Blend for Sustainable Development	O48	A2602/ Mr Piyush Verma/ India/ Green Pretreatment of Vegetable Waste for Sustainable Production of Agro-Waste Derived Xylooligosaccharides
1455-1510	O13	A3213/ Dr. Gan Sin Yee/ Malaysia/ Hydrothermal Synthesized Kenaf Core Cellulose Carbamate Using Autoclave	O31	A402/ Miss Triya Mukherjee/ India/ Bio-Succinic Acid Production Using CO_2 as A Feedstock	O49	A1318/ Miss Yuehan Li/ China/ Efficient Production of Volatile Fatty Acids from Corn Stalks Using Rumen Solid Residues Fermentation
1510-1530	**Coffee Break**					
1530-1645	**A6: Environmental Bioremediation**		**B6: Circular Bioeconomy and Energy & Environmental Sustainability**		**C6: Composting**	
	Chair: Prof. Qunxing Huang		**Chair:** Prof. Dan Tsang		**Chair:** Prof. Cheng-Di Dong	
	Co-Chair: Assoc. Prof. Jun Zhao		**Co-Chair:** Prof. Mark R. Wilkins		**Co-Chair:** Prof. Luciana Vandenbeerghe	
1530-1555	P4	Plenary Lecture: A2032/ Prof. Lixiang Zhou/China/Recovery of Organic Matter and Nutrients from the Anaerobic Digestate of animal Waste or Food Waste by Biological Conditioning and Dewatering	P9	Plenary Lecture: A3212/ Prof. Qiyong Xu / China/ A Hydrothermal Coupled Pyrolysis Process for Effective Management of Food Waste Digestate	P14	Plenary Lecture: A507/ Prof. Ji Li/ China/ Composting industry in China: Situation and Perspectives

1555-1615	I8	Invited Lecture: A2026/ Prof. Guanyu Zheng/ China/ Persistence Evaluation of Faecal Pollution Indicators in Dewatered Sludge and Dewatering Filtrate of Municipal Sewage Sludge: the Impacts of Ambient Temperature and Conditioning Treatments	I16	Invited Lecture: A1915/ Assoc. Prof. Eldon Rene/ India/ an analysis of the Recent Initiatives in Nigeria to Promote Circular Bio-Economy and industrial Symbiosis	I24	Invited Lecture: A502/ Prof. Fabrizio Adani/ Italy/ Renewable Fertilizers from Organic Wastes to Make Agriculture More Sustainable Reconnecting Urban and Rural Areas
1615-1630	O14	A3027/ Assoc. Prof. Kanchan Deoli Bahukhandi/ India/ Nature-Based Solutions for the Treatment and Remediation of Emerging Contaminants and Microplastics in Aquatic Water Bodies of the Himalayan Region : an Approach to Rejuvenate River Ecosystems	I32	A1924/ Mr Mari Selvam S./ India/ Exploring the Effectiveness of Enhanced Crop-Residue Based Flocculants in Microalgae Harvesting	I50	A2004/ Dr. Zhenye Tong / China/ Efficient Removal of Antibiotics Resistance Genes from Biogas Slurry Using Plant-Scale Composting: Further Enhancement Via Food Waste Hydrochar Addition and Molecular Membrane Covering
1630-1645	O15	A2901/ Dr. Karuna Narsappa Nagula/ India/ Unusual Nutraceuticals for anti-Cancer Activity	O33	A1701/ Dr. Dimitrios Ladakis/ Greece/ Sustainability Analysis of Aviation Bio-Fuels' Production via Fermentation Process Utilizing Spent Coffee Grounds and Orange Peel Residues	O51	A2023/ Dr. Ruonan Ma / China/ Bioaerosol Emission Characteristics and Potential Risks during Resistance Composting: Focus on Pathogens and antimicrobial
1645-1830	**Poster Viewing, Room: Room CD302 and CD303**					
1900-2200	**Banquet Dinner: Choi Fook Royal Banquet (iSquare), Tsim Sha Tsui**					

Day 3: 04 Dec 2024 (Venue: The Hong Kong Polytechnic University)						
0900-1010	**A7: Environmental Bioremediation**		**B7: Biofuels and Biorefineries**		**C7: Composting**	
	Chair: Prof. Hailong Wang		**Chair:** Prof. Guanyu Zheng		**Chair:** Prof. Helene Carrere	
	Co-Chair: Prof. Yen Wah Tong		**Co-Chair:** Assoc. Prof. Eldon Rene		**Co-Chair:** Assoc. Prof. Mukesh Kumar Awasthi	
0900-0925	P5	Invited Lecture: A3029/ Prof. Qing Chen/ China/ Assessing Phosphorus Speciation in Carbon-Based Materials from Manure Sources and Their Influence on Soil Phosphorus Geochemical Cycling	P10	Plenary Lecture: A601/ Prof. Mark R. Wilkins/ United States/ PHB Production from Simultaneous Utilization of Maize Fiber Hydrolysate and Maize Distillers' Oil	P15	Plenary Lecture: A509/ Prof. Guoxue Li / China/ Clean Production of Organic Fertilizer from Livestock Manure

0925-0940	O16	A2302/Prof. Izabela Michalak/ Poland/ Sawdust as a Soil Additive increasing the Efficiency of Phytoremediation of Soil Contaminated with Cadmium Ions	O34	A1303/Mr. Aayush Mathur/ India/ Valorization of Pearl Millet Straw for Enhanced Bioethanol Production	O52	A2017/ Dr. Zhicheng Xu/ China/ Microbial Sources and Sinks of Nitrous Oxide During Organic Waste Composting
0940-0955	O17	A2401/ Prof. Yonghong Wu/ China/ Biofilm-Mediated Nutrient Removal	O35	A1319/ Prof. Made Tri Ari Penia Kresnowati/ indonesia/ integrated Biorefinery of Oil Palm Empty Fruit Bunches for the Production of Ethanol, Xylitol, Vanilin, and Carotene	O53	A2111/Dr Yan Liu / China/ Dicyandiamide Shifts the Production Pathway from Denitrification to incomplete Nitrification Dominated by the Amoa Gene During Composting
09555-1010	O18	A2204/ Prof. Suresh Kumar Dubey/ India/ Omics Perspectives of Fipronil Degradation Through Bacterial Population Isolated from Native Contaminated Soil	O36	A1404/ Dr. Shazia Rehman/ Hong Kong/ Synergistic Bioprocessing of Non-Sterile Food Waste for 2,3-butanediol Production – A Green Approach to Sustainable Aviation Fuel	O54	A2107/ Dr. Xia Gao/ China/ Dynamics of Antibiotic Resistance Genes During Manure Composting: Reduction in Herbivores Manure and Accumulation in Carnivores
1010-1030	**Coffee break (Chiang Chen Studio Theatre)**					
1030-1200	**Keynote Session: Chair – Prof. Duu-Jong Lee (Chiang Chen Studio Theatre)**					
1030-1100	**Keynote Speech 3 A3018/ Prof. Hailong Wang/ New Zealand/ Biochar: Transforming Waste Biomass into a Negative Emissions Solution**					
1100-1130	**Keynote Speech 4: A2033/ Prof. Rajesh Tyagi/ Canada/ Wastes as Raw Material for Bioplastics: Challenges and Opportunities**					
1130-1200	**Keynote Speech 5: A806/Prof. Korneel Rabaey/ Belgium/Electrochemical in Situ Extraction Enables High Purity Product Recovery from Bioproduction**					
12:00-12:15	Stephen Shen/ China/ Unleash Your Research Impact with Wiley Life Sciences Journals and Special Issue Program					
1215-1230	**Closing Session and Award Presentation (Prof. Ashok Pandey, Prof. Jonathan Wong) (Chiang Chen Studio Theatre)**					
1230-1400	**Lunch**					

Poster Programme

Poster Viewing	Special Viewing Time
All Day Open from 2nd to 3rd December	2nd December: 13:00-14:00 & 17:20-19:00; 3rd December 08:00-09:00, 13:00-14:00 & 16:45-18:30

Anaerobic Digestion			
3202	**P1**	Dr. Lisandra Meneses/Portugal	Hydrothermal Pretreatment with and without Oxidant for Biogas Production from Sludge, Dairy, and Wood Residues: a Case Study Utilizing Conventional Activated Sludge
1912	**P2**	Assoc. Prof. Jialin Liang/China	Triclocarban Transformation in Sludge Conditioning Process
3007	**P3**	Miss Wenjing Tian/China	Facilitating Intracellular Electron Bifurcation by Mediating Flavins-Based Extracellular and Transmembrane Electron Transfer: a Novel Role of Biochar in Dark Fermentation for Hydrogen Production
1522	**P4**	Mr. Wenjian Dong/China	Pig Urine Induced Ternary Buffering Complex and Associated Microbial Community Coping with Acid Inhibition During High Solid Anaerobic Digestion of Rice Straw
804	**P5**	Dr. Youli Yang/China	The Dual Role of Magnesium Carbonate in the Anaerobic Production of Propionic Acid from Vegetable Waste
1519	**P6**	Mr. Jian Su/China	Mechanism of Acid Inhibition Alleviation During Anaerobic Co-Digestion of Pig Manure and Straw in a Micro-Oxygenated Environment
1529	**P7**	Miss Lijun Luo/China	Assessing the Impact of Inoculum Types on Mono-Digestion and Co-Digestion of Food Waste and Sewage Sludge
2011	**P8**	Mr. Jiahao Zhang/China	Establishing a Cost-Effective Pathway for Anaerobic Sanitation Treatment of Animal Manure: Dependence on Feeding Solid Content
2022	**P9**	Dr. Ho Ka Kin/Hong Kong	An Innovative, Convenient and Hygienic Way of Collecting Household Food Waste – Food TranSmarter
1504	**P10**	Dr. Xing Yan/China	High-yield direct biohydrogen production from undetoxified pretreated garden waste: Enhanced substrate tolerance and synergistic degradation by co-culture of thermophiles
1515	**P11**	Mrs. Xiao-Xing Li / China	Improved Biogas Production via Biochar-Assisted Thermophilic Dry Anaerobic Co-Digestion of Tobacco Stalk and Sludge: Long-Term Performance and Mechanism

Composting			
2116	**P12**	Miss Xinyuan Zhang/China	Stratified a Eration Supplied an Effective Way for Ammonia and Greenhouse Gas Mitigation in Composting
2009	**P13**	Miss Ruolan Tang/China	Iron-Modified Biochar of Mitigate Nitrogen Loss During Pig Manure Composting: Performance and Mechanisms
901	**P14**	Miss Jiani Wang/China	The Enrichment of Antibiotic Resistance Genes in Swine Manure Compost Was Related to the Bulking Agent Types
2015	**P15**	Miss Lanxia Zhang/China	Unravelling Biotic and Abiotic Mechanisms of Mature Compost to Alleviate Gaseous Emissions in Kitchen Waste Composting by Metagenomic Analysis
2020	**P16**	Miss Ruohan Xia/China	Deciphering the Horizontal Transfer Mechanisms of Antibiotic Resistance Genes during Kitchen Waste Composting Inoculated with Mature Compost Using Metagenomics
501	**P17**	Dr. Yumin Duan/China	Biochar Regulating Dissolved Organic Matter and Bacterial Community Structure of Sheep Manure Composting
2008	**P18**	Mr. Zhaoyong Sun/China	Microbial Mechanisms of Biochar Addition on Carbon and Nitrogen Synergistic Retention During Distilled Grain Waste Composting: Insights from Metagenomic Analysis
102	**P19**	Dr. Dongyi Li/China	The Synergetic Effect of Biochar and Nitrifying Inoculants on Food Waste Composting
Biofuels and Biorefineries			
1409	**P20**	Mr. Sahil Dhull/India	Maximizing Bioethanol Productivity: A Dual Strategy of Room Temperature Pretreatment and Cyclic Temperature Shifting
1505	**P21**	Dr. Ting Yang/China	Transition metal-embedded organic frameworks preparation and research on their catalytic activity in hydrogen production
Bioprocesses and Products Development			
1313	**P22**	Miss Shristy Sonal	Valorization Of Lanatan Camara For Efficient Sugar Production
1305	**P23**	Mr. Aditya Yadav /India	Valorization of Cocoa Pod Husk Biomass for Optimized Production and Purification of Xylooligosaccharides
1312	**P24**	Miss Akanksha Shree/India	Sustainable Pretreatment of Lignocellulosic Biomass Using Deep Eutectic Solvent: Pathway to Efficient Biomass Conversion
2024	**P25**	Mr. Socheatha Chea Tork/United States	Design and Operating A Modular Controlled Environment System for Black Soldier Fly (BSF) Egg Production

606	**P26**	Miss Yahui Miao/China	One-Step Sophorolipid Production from Food Waste via Evolved Starmerella Bombicola and Modified Bioreactor Design
2408	**P27**	Miss Fryni Pyrilli/Cyprus	Mineralisation of Thermochemically Pretreated Thermoplastic Starch Using an Active Microbial Community
2410	**P28**	Mr. Hsieh, Cheng - En/Taiwan Province of China	Enhancing the PVC Wastewater Treatment Efficiency of Algae-Bacteria Symbiotic Systems through Engineering Strategies
Bioproducts			
1904	**P29**	Dr. Sheetal Kishor Parakh/India	From Food Waste to Single-Cell Microalgae Protein
2021	**P30**	Mr. Wei Fang/China	A Novel Strategy for Waste Activated Sludge Treatment: Recovery of Structural Extracellular Polymeric Substances and Fermentative Production of Volatile Fatty Acids
1909	**P31**	Mr. Prashant Kumar/India	Revolutionizing Astaxanthin-Rich Microalgae Harvesting with A High-Efficiency Fe@Urea Nanocomposite
1203	**P32**	Miss Henna Mohi Ud Din Wani/India	Unleashing the Power of Arthrospira platensis: Bioactive Peptides for Antioxidant Benefits
703	**P33**	Dr. Ayon Tarafdar/India	Preparation, Characterization and Application of Spent Hen Meat Hydrolysate Powder
611	**P34**	Miss Poonam Kumari/India	Biorefinery-Enabled Synthesis of Mcl-PHAs Using Rhodopseudomonas Palustris: Environmental Sustainability Assessment
2411	**P35**	Miss Ruiqi Gan/China	Study on Synthesis of PHA from Wastewater with High COD
2409	**P36**	Mr. Liu Song/China	Study of the Effect of Substrate Structure on the Enrichment of A High-Load PHA-Producing Bacterial Colony Reactor
Thermal Treatment and Biochar- Production and Applications for Environmental Applications			
3008	**P37**	Mr. Weijian Xu/China	Using Waste to Improve the Weak Recycled Seashell as an Ideal Way to Regulate the ITZ in Biochar-Cement Composite
3009	**P38**	Miss Siqin Li/China	Effective Acceleration of Photocatalytic Degradation of Sulfamethoxazole by Layered Double Hydroxide@petrochemical Sludge Biochar
3011	**P39**	Mr. Xinyu Jiang/China	Cold-bonded Biochar-cement Lightweight Aggregates for Evaporation-enhanced Permeable Bricks

3012	**P40**	Mr. Jingyi Liang/China	Bond Strength and Cracking Behavior of Biochar-Cementitious Material from Cement to Mortar
3016	**P41**	Mr. Muduo Li/China	A Multi-Phase Mechanical Model of Biochar–Cement Composites at the Mesoscale
3014	**P42**	Dr. Izharul Haq/India	Thermodynamic Assessment and Biochar Yield from Pyrolysis of Different Biomass in a Fixed Bed Reactor
3017	**P43**	Miss Yuying Zhang/China	Roles of Wood Waste Biochar in Enhancing Chloride Resistance and Promoting Carbon Neutrality in Construction Materials
505	**P44**	Miss Tsang Hiu Man/Hong Kong	The Potential of Utilizing Food Waste Digestate Derived Hydrochar and Process Water as Organic Fertilizer
3010	**P45**	Miss Wenxin Fu/China	Practical Pathways to Carbon Neutrality and Improved Production for Biochar-Based Agriculture
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