June 2, 2024 (Sunday)			
13:30-19:00	**Registration (Venue: ITU Faculty of Architecture-Taşkışla Campus)**		
14:00-15:30	**Workshops (Session 1) (Venue: ITU Faculty of Architecture-Taşkışla Campus)**		
	Workshop 1 (Hall: 126) Anaerobic conversions for sustainable biorefineries (**Chairs:** Marta Carballa-Miguel Mauricio-Iglesias)	**Workshop 2** (Hall: 230) From microbial ecology to microbiome engineering of anaerobic digestion communities (**Chairs:** Anna Trego-Jo De Vrieze)	**Workshop 3** (Hall: 231) Integrating membrane processes into anaerobic systems (**Chairs:** Ángel Robles-Jules van Lier)
15:30-16:00	**Coffee Break**		
16:00-17:30	**Workshops (Session 2) (Venue: ITU Faculty of Architecture-Taşkışla Campus)**		
	Workshop 1 (Hall: 126) Anaerobic conversions for sustainable biorefineries (**Chairs:** Marta Carballa-Miguel Mauricio-Iglesias)	**Workshop 2** (Hall: 230) From microbial ecology to microbiome engineering of anaerobic digestion communities (**Chairs:** Anna Trego-Jo De Vrieze)	**Workshop 3** (Hall: 231) Integrating membrane processes into anaerobic systems (**Chairs:** Ángel Robles-Jules van Lier)
19:00-22:00	**Welcome Reception (Venue: Grand Hyatt İstanbul)**		

June 3, 2024 (Monday)	
08:00-09:00	Registration (Venue: İstanbul Congress Center)
09:00-10:50	Opening Ceremony (Hall: Üsküdar 1-2-3)
10:50-11:20	Coffee Break+Poster Session
11:20-12:40	Plenary Session (Hall: Üsküdar 1-2-3) (Chair: Jules van Lier)
11:20-12:00	**Plenary Speech** **Carboxylate Platform. The Swiss Knife for Bioresource Recovery** *Juan M. Lema, University of Santiago de Compostela*
12:00-12:40	**Plenary Speech** **Controlling Product Formation in Anaerobic Digestion** *Robbert Kleerebezem, Delft University of Technology*
12:40-12:50	Group Photo
12:50-14:00	Lunch

June 3, 2024 (Monday)

	Session 1		
14:00-16:30	**Anaerobic Treatment of Industrial, Municipal, Agricultural Waste(water)** **(Chair: Pavel Jenicek)** **Hall: Üsküdar 1**	**Microbial Diversity in Anaerobic Processes** **(Chair: Ismail Koyuncu)** **Hall: Üsküdar 2**	**Advanced Processes and Technologies for Enhancing Waste Degradation and Biogas Production** **(Chair: Vinay Kumar Tyagi)** **Hall: Üsküdar 3**
14:00-14:15	Optimization of swine wastewater methanization via zero-valent iron *N. Morais., R. do Nascimento., M. da Silva., **A. dos Santos*** *(Federal University of Ceará, AD-371)*	Seasonal microbial assessment of foaming dynamics in full-scale WWTP anaerobic digesters and its economic impact ***S. Astals**, M.S. Romero-Guiza, R. Asiain-Mira, J. Palatsi, M. Peces* *(University of Barcelona, AD-506)*	Pilot- and full-scale evaluation of a peroxide-based additive that reduces gaseous emissions and retains biogas potential from stored pig slurry *D. Hughes, S. Nolan, C.E. Thorn, M. McDonagh, R. Friel, **V. O'Flaherty*** *(University of Galway, AD-587)*
14:15-14:30	Effect of co-substrates and redox mediators on the linear alkylbenzene sulfonate anaerobic degradation *N.F. Bomfim, J.L. Costa, L.G. Silva, L. Florencio, F. Motteran, **M.T. Kato*** *(Federal University of Pernambuco, AD-514)*	Longitudinal process performance and microbial community trends in solar septic tank systems ***C. Keating**, T. Pussayanavin, C. Polprasert, R.J. Randle-Boggis, J. Russell, U.Z. Ijaz, W.T. Sloan, S. Connelly, T. Koottatep* *(Durham University, AD-497)*	Biogas production enhancement by non-conventional AnSBR treating protein and lipid-rich wastewater: From lab to pilot ***J. Muñoz Sierra**, Z. Deng, A.L.M. Ferreira, D. Cerqueda-Garcia, S. Pacheco Ruiz, D. Smets, K. Roest* *(KWR Water Research Institute, AD-673)*
14:30-14:45	Recovery of volatile fatty acids using a novel approach based on gas-permeable membranes ***B. Molinuevo-Salces**, B. Riaño, V. da Silva, M.C. García-González* *(Agricultural Technological Institute of Castilla y León, AD-101)*	Activity-targeted metaproteomics elucidates syntrophic metabolisms in a full-scale biogas facility ***S.E. Friedline**, M.W. Madill, K.R. Waring, S.J. Hallam, R.M. Ziels* *(University of British Columbia, AD-386)*	Enhanced methane recovery from food waste in a bio-electrochemically enhanced anaerobic digester (BEAD) *V. Singh, B. Tartakovsky, H. Li, **B. Ormeci**, A. Hussain* *(Carleton University, AD-472)*

June 3, 2024 (Monday)

14:45-15:00	How to interpretate methanogenic activity values used for monitoring a full-scale anaerobic reactor ***M. Ribeiro***, *L. Borzacconi, I. López* *(Universidad de la República, AD-365)*	From microbial heterogeneity to evolutionary insights: A strain-resolved metagenomic study of H_2S-induced changes in anaerobic biofilms ***G. Ghiotto***, *N. De Bernardini, G. Giangeri, P. Tsapekos, M. Gaspari, P. Kougias, S. Campanaro, I. Angelidaki, L. Treu* *(University of Padova, AD-520)*	Increase of biogas production of anaerobic digestion of sewage sludge by addition of heat hydrolysed bioplastic waste ***J. Tsubota***, *S. Akimoto, I. Angelidaki, T. Hidaka, T. Fujiwara* *(Osaka Gas Co. Ltd., AD-268)*
15:00-15:15	Impact of solid retention time on the functional development of glucose-fermenting communities using membrane bioreactors ***A. Pedrouso***, *I. Renteria-Mercado, G.R. Stouten, R. Kleerebezem* *(Delft University of Technology, AD-693)*	Assembly mechanisms shift toward stochasticity at intermediate frequency of disturbance in anaerobic digestion reactors ***S.A. Neshat***, *E. Santillan, S. Wuertz* *(Nanyang Technological University, AD-338)*	Application of the microbial hydrolysis process on an existing anaerobic digestion system ***D.L. Parry***, *P.H. Nielsen, M. Fairley-Wax* *(Jacobs, AD-457)*
15:15-15:30	Investigation of hydrothermal carbonisation as pretreatment on anaerobic digestion of waste-activated sludge ***A.A. Shahnawazi***, *L. Carvalho, S. Schwede* *(Mälardalen University, AD-659)*	Unveiling magnetrophism: Occurrence of direct interspecies electron transfer (DIET) in non-conductive material mediated by magnetotactic bacteria ***H.S. Dornelles***, *T.Y.C. Lam, E. Beirns, G.Y.A. Tan, C.A. Sabatini, M.A.T. Adorno, E.L. Silva, P.H. Lee, M.B.A. Varesche* *(University of São Paulo, AD-389)*	Impact of microwave pretreatment on manure and endogenous microorganisms prior to acidogenic fermentation ***K. Pipereau***, *E. Trably, G. Santa-Catalina, D.G. Bernet, H. Carrere* *(Université de Montpellier, AD-359)*
15:30-15:45	Effect of feeding regime and pH on thermophilic acidogenic fermentations from food waste ***L. Vulart***, *E. Peiro, F. Gòdia, R. Ganigué* *(Autonomous University of Barcelona, AD-277)*	Influence of microbial communities on resistomes and mobilomes during mesophilic and thermophilic anaerobic digestion ***D. Flores-Orozco***, *N. Cicek* *(University of Manitoba, AD-176)*	Anaerobic degradation of blackwater ***J. Morken***, *M.E. Moges, D. Todt, A. Stenseth, A. Heistad* *(Norwegian University of Life Sciences, AD-326)*
15:45-16:00	Mainstream ammonia removal and recovery using a combination of ion exchange (IEX) and hollow fibre membrane contactor (HFMC) ***H. Sakar***, *K.H. Ip, M. Palmer, P. Vale, A. Soares* *(Cranfield University, AD-664)*	Going beyond the 'optimal range': The potential of anaerobic digestion at high alkaline conditions ***B. Diniz***, *P. Wilfert, D.Y. Sorokin, M.C.M van Loosdrecht* *(Delft University of Technology, AD-45)*	Enhancement of sludge filtrate treatment by biocatalyzed electrolysis assisted anaerobic digestion *B. Kuang, L. Deng, J. Huang, B. Cui, X. Liang,* ***T. Wang*** *(Wuyi University, AD-115)*

June 3, 2024 (Monday)

16:00-16:15	Biotechnological potential of manure microbiota and fermented food waste for sustainable production of value-added products ***S. Salimi Khaligh***, *S. Sertgumec, E. Polat, O. Destanoglu, N. Özcan, M. Ozcan, M. Altinbas* *(Istanbul Technical University, AD-683)*	Exploring the uncharted in methanogenic communities: The verrucomicrobiota case *P. Bovio-Winkler, A. Cabezas,* ***C. Etchebehere*** *(Clemente Estable Biological Research Institute, AD-671)*	Power and limitations of biochemical methane potential (BMP) tests ***K. Koch***, *S.D. Hafner, S. Weinrich, S. Astals, C. Holliger* *(Technical University of Munich, AD-41)*
16:15-16:30	Removal and gain of antibiotic resistance in a micro-aerated anaerobic membrane bioreactor fed with antibiotics *A.L. Piaggio, S. Mittapalli, D. Calderón-Franco, D.G. Weissbrodt, J.B. van Lier,* ***M.K. de Kreuk****, R.E.F. Lindeboom* *(Delft University of Technology, AD-517)*	Integrated microalgal biorefinery for carotenoids and bioenergy recovery ***E. Ruales***, *M. Bellver, A. Álvarez-González, M. Garfí, I. Sampaio, F. Passos, I. Ferrer* *(Universitat Politècnica de Catalunya, AD-677)*	Enhancing anaerobic treatment of thermo-mechanical pulping wastewater with electrochemical oxidation *K. Rintala,* ***M. Kokko*** *(Tampere University, AD-212)*
16:30-17:00	**Coffee Break+Poster Session**		
17:00-19:15	**Session 2**		
	Novel and Hybrid/Integrated Anaerobic Process Configurations and Emerging Technologies **(Chair: Adam L. Smith)** **Hall: Üsküdar 1**	**Modeling, Optimization, Instrumentation, and Control of Anaerobic Processes** **(Chair: Jean-Philippe Steyer)** **Hall: Üsküdar 2**	**Biogas Upgrading and Use Areas** **(Chair: Vincent O'Flaherty)** **Hall: Üsküdar 3**
17:00-17:15	Robust H_2 production and highly effective H_2 harvesting from organic wastewater in membrane-bioelectrochemical reactors *X. Li,* ***D. Liang*** *(Beihang University, AD-644)*	Anaerobic digestion diagnostic platform (ADDiP): How omics tools help to optimize AD processes ***G. Bruant***, *A. Shaw, F. Ngoundjo, L. Schreiber, A. Ko, S.L. Ying, C. Fulton, L. Spreutels, S.R. Guiot, J.C. Frigon* *(Clean Energy Innovation Research Center, AD-475)*	Metabolic flux balance analysis of different reactors performing biological CO_2 methanation and biogas upgrading *D. Sanguineti, E. Orellana, M. Gaspari, A. Chatzis, G. Zampieri, P.G. Kougias, L. Treu,* ***S. Campanaro*** *(University of Padova, AD-521)*

June 3, 2024 (Monday)

17:15-17:30	Exploring the boundaries of syngas biomethanation ***E.M. Goonesekera***, *E. Thanasoula, H.F. Yousif, A. Grimalt-Alemany, I. Angelidaki* *(Technical University of Denmark, AD-445)*	An approach to determine biomethane potential by simple laboratory methods ***B. Weber***, *A. Cruz Maya, M.D. Durán-García, C. Fröhlich* *(Autonomous University of the State of Mexico, AD-372)*	Intermittent fasting of hydrogenotrophic methanogenic communities ***M. Nikolausz***, *M. Kabiru Nata'ala, W. Logroño, N. Abdulkadir, J.P. Saraiva, J.C. Kasmanas, R. Kallies, P.F. Stadler, U.N. da Rocha, S. Kleinsteuber* *(Helmholtz Centre for Environmental Research - UFZ, AD-462)*
17:30-17:45	Photo-fermentation to unlock a locally available hydrogen source for biogas upgrading within two-phases anaerobic digestion processes ***M. Biasiolo***, *M. Turatello, P. Cerchier, G. Tassinato, C. Cavinato* *(Università Ca' Foscari Venezia, AD-595)*	Towards ADM1 into CFD: Lab-scale validation and full-scale application ***R. Arnau***, *J. Climent, R. Martínez-Cuenca, J. Rodríguez, S. Chiva* *(Hydrodynamic and Environmental Services, AD-482)*	Phototrophic-assisted electrochemical conversion of biogenic CO_2 from biogas upgrading and recycled nitrogen into single cell protein ***M. Pezzuto***, *R. Lo Coco, D. Bolzonella, N. Frison* *(University of Verona, AD-470)*
17:45-18:00	Membrane-based fermentation for high-purity caproic acid production from ethanol containing substrates ***P. Dessì***, *M. Romans-Casas, E. Perona-Vico, M. Tedesco, H.V.M. Hamelers, L. Bañeras, M.D. Balaguer, S. Puig* *(University of Naples Federico II, AD-339)*	Multi-factor optimization of bioelectrochemically improved anaerobic digestion, for enhanced biomethane production ***D. Molognoni***, *M. Garcia, P. Bosch-Jimenez, E. Borràs, G. Bouteau, M. Juge, G. Courtecuisse, L. Benichou* *(Leitat Technological Center, AD-481)*	Optimization of trickle-bed reactor for thermophilic biomethanation ***M. Sposob***, *R. Wahid, B. Bilgic* *(Department of Bioresources and Recycling Technologies, AD-30)*
18:00-18:15	Combining electrocoagulation with anaerobic digestion: A sustainable approach for micro-pollutant removal from faecal sludge with simultaneous energy recovery ***P. Dong***, *D. Parmentier, S. Van Hulle* *(Ghent University, AD-221)*	Modelling trace metal speciation effects during full-scale co-digestion of sewage sludge and food waste *S. George, M.R. Mattei, L. Frunzo, G. Esposito, G. C. Hortal, E. M. Rodriguez Gonzalez,* ***V. Luongo***, *F. G. Fermoso* *(Instituto de la Grasa, CSIC, AD-267)*	Ex-situ biological biogas upgrading with H_2 addition in a thermophilic anaerobic membrane bioreactor (AnMBR) ***A. Hafuka***, *S. Kanuma, K. Oshita, N. Sato, R. Ito, S. Mizuno, K. Kimura* *(Hokkaido University, AD-259)*

June 3, 2024 (Monday)

18:15-18:30	Long-term operation of AnMF-OMBR and UASB MF-OMBR systems treating slaughterhouse wastewater ***S. Hasanoglu***, *I.Y. Guney, I. Vergili, G. Yilmaz, Y. Kaya, C. Aydiner, Z.B. Gonder* *(Istanbul University-Cerrahpasa, AD-100)*	A tool for optimal calibration of anaerobic co-digestion models: Development in the OpenModelica platform ***A. Catenacci***, *D. Carecci, A. Leva, A. Guerreschi, G. Ferretti, E. Ficara* *(Politecnico di Milano, AD-332)*	Experimental and modelling study of the production of acetate from H_2/CO_2 in continuous reactors with microbial consortia *L. Laguillaumie, S. Dubos, M. Bounouba, M. Peyre-Lavigne,* ***S. Pommier****, E. Paul, C. Dumas* *(Université de Toulouse, AD-224)*
18:30-18:45	Integration of water scrubbing and membrane biofilm reactor (MBfR) for CO_2 capture and utilization via biomethanation ***T. Shoji***, *H. Izumika, K. Nakata, H. Tanaka, T. Nittami* *(Nishimatsu Construction Co. Ltd., AD-574)*	Application of a simplified ADM1 for dynamic simulation of agricultural anaerobic digestion plants ***F. Delory***, *S. Weinrich* *(Deutsches Biomasseforschungszentrum gemeinnutzige GmbH, AD-591)*	Impact of organic loading rate on hydrogen consumption rate during in-situ biomethanation ***A. Dabestani-Rahmatabad***, *G. Capson-Tojo, E. Trably, J.P. Delgenès, R. Escudié* *(INRAE, AD-166)*
18:45-19:00	BIOPAQ RISE introduces innovative external separators for high rate anaerobic waste water treatment ***T.L.G. Hendrickx***, *R. Prins, H. Zijlstra, E. Mozes, J. Vogelaar* *(Paques Technology B.V., AD-632)*	Combination and comparison of machine learning and metabolic models to predict bio-methane from manure co-digestion in WWTP ***M.J. Tarrega***, *C. Lafita, D. Aguado* *(Global Omnium Medioambiente S.L., AD-437)*	Biogas and beyond: Bioconversion of methane to ectoine in a Taylor flow bioreactor ***R. Herrero-Lobo***, *A.F. Torres, P. Zamora, V. Monsalvo, F. Rogalla, R.L. Fernández, R.M. Torre* *(University of Valladolid, AD-65)*
19:00-19:15	Monitoring dewatering performance of anaerobic digestate using low-field nuclear magnetic resonance ***E.G. Bertizzolo***, *N. Ling, F. Tessele, M.L. Johns, E.O. Fridjonsson* *(The University of Western Australia, AD-260)*	Data-driven modelling for prediction of biogas production in anaerobic co-digestion of waste activated sludge and food waste *M. Ghazizade Fard,* ***E. Koupaie*** *(Queen's University, AD-622)*	Hybrid electrolysis for simultaneous green H_2 production and CO_2 capture - Aiding biogas plants to become power-to-gas facilities ***T. Lippert***, *Y. Lin, H. Nielsen, K. Zhu, G. Wells* *(Northwestern University, AD-627)*

June 4, 2024 (Tuesday)

08:00-08:30	**Registration (Venue: İstanbul Congress Center)**		
08:30-10:45	**Session 3**		
	Novel and Hybrid/Integrated Anaerobic Process Configurations and Emerging Technologies **(Chair: Juan Lema)** **Hall: Üsküdar 1**	**Microbial Diversity in Anaerobic Processes** **(Chair: Marta Carballa)** **Hall: Üsküdar 2**	**Pre- and Post-Treatment Strategies for Anaerobic Digestion** **(Chair: Sang-Hyoun Kim)** **Hall: Üsküdar 3**
08:30-08:45	Microaeration in co-digestion of food waste and sewage sludge *W. Chuenchart, K.C. Surendra, C.B. Sawaya, A.L. Smith, **S.K. Khanal*** *(University of Hawai'i at Mānoa, AD-297)*	Metabolic trade-offs between energy yield and driving force in microbial CO_2 fixation *A. Taha, M. Patón, **J. Rodríguez R.*** *(Khalifa University, AD-503)*	Long-term operation of coupled anaerobic digestion and electrochemical pre-treatment for selective acetate production from waste activated sludge ***H. Guo**, Q. Zeng, Y. Sato, G. Chen* *(The Hong Kong University of Science and Technology, AD-349)*
08:45-09:00	Using a recirculating anaerobic dynamic membrane bioreactor to treat hydrothermal liquefaction aqueous by-product: Reactor performance and microbial community ***X. Fonoll**, M. Thorson, A. Schmidt, J. Norton Jr.* *(University of Texas at Austin, AD-233)*	What is the minimal microbial consortium that can effectively anaerobically degrade oleic acid? *S. Palani, **F. L. de los Reyes III*** *(North Carolina State University, AD-570)*	The complex effects of sewage sludge pretreatment methods on subsequent fermentation and nutrient release *T. Pincam, **Y.Q. Liu*** *(University of Southampton, AD-333)*
09:00-09:15	Unlocking the potential of lactate fermentation for carboxylates, emphasizing succinate and pH ***M.A. Vital-Jácome**, A. Guerrero-Ramírez, J. Carrillo-Reyes, G. Buitrón* *(Universidad Nacional Autónoma de México, AD-643)*	On the microbiome robustness of seasonal waste activated sludge digestion *J. Van Landuyt, J. Oosterlinck, **J. De Vrieze*** *(Ghent University, AD-480)*	Treatment of anaerobic digester effluent via DAMO-anammox co-culture *R. Harb, **T.H. Erguder*** *(Middle East Technical University, AD-652)*

June 4, 2024 (Tuesday)

09:15-09:30	Anaerobic conversion of carbon monoxide by different inoculum sources *R. Ali, L. Yde, **M.T. Ashraf*** *(University of Southern Denmark, AD-421)*	Individual anaerobic granules are whole-ecosystem replicates with reproducible responses to environmental cues ***A. Trego,** G. Collins, U. Ijaz, V. O'Flaherty* *(University of Galway, AD-209)*	Techno-economic analysis of anaerobic digestion process with wet oxidation and thermal hydrolysis *T. Das, I. Al-Waili, V. Balasubramanian, G. Appleby, P. Kaparaju, R. Parthasarathy, **N. Eshtiaghi*** *(RMIT University, AD-590)*
09:30-09:45	Catalysing change: Unlocking the potential of biological power to methane (bPtM) ***S. Savvas**, R. Gangappa, T. Patterson, S. Esteves* *(University of South Wales, AD-454)*	Are acetate and propionate syntrophic oxidation inhibited by osmotic pressure? *C. Chenebault, **C. Marcilhac**, R. Moscoviz* *(CIRSEE, AD-171)*	Priming and post-digestion as a strategy to increase degradation of residual organic structures in digestate rich in lignocellulose ***M.A. Bjerg**, F. Heino, S.S. Yekta, L. Šafarič, A. Enrich-Prast, J. Moestedt, E. Perman, A. Schnurer, A. Björn* *(Linköping University, AD-340)*
09:45-10:00	Vacuum-driven extractive fermentation of waste for chemical production *F. Zimbardi, **A. Facchin**, C. Torri* *(University of Bologna, AD-635)*	Microbial community response to temperature reduction during high-rate anaerobic treatment of LCFA-containing wastewater ***Y. Liu**, J. Ramiro-Garcia, L.M. Paulo, C.M. Braguglia, M.C. Gagliano, V. O'Flaherty* *(University of Galway, AD-334)*	Assessment of mild-temperature vacuum stripping for anaerobic digestion of waste activated sludge ***O. Sengur**, D. Akgul, B. Calli* *(Marmara University, AD-620)*
10:00-10:15	A mechanistic model for kinetic and mass flow analysis of a wastewater-fed electrochemical-methanogenic system ***T. Gehring**, R. Rad, M. Corbalán, W.R.M. Leite, B.S. Magnus, M. Lubken, M. Wichern, U.P. Apfel* *(Ruhr University Bochum, AD-536)*	Biofilm forming abilities of syntrophic bacteria and methanogens are essential for granulation of anaerobic sludge ***A. Doloman**, M.S. Besteman, D.Z. Sousa* *(Wageningen University and Research, AD-231)*	Combined fungal and chemical pretreatment of lignocellulosic biomass for biogas production: Effect of pretreatment order and fungal strains ***S. Meenakshisundaram**, V. Calcagno, C. Ceballos, A. Fayeulle, E. Léonard, V. Herledan, J.M. Krafft, Y. Millot, X. Liu, C. Jolivalt, A. Pauss* *(Université de Technologie de Compiègne, AD-492)*
10:15-10:30	Enhanced anaerobic fermentation of organic fatty acids from C1 and H_2 gas sources via novel char-sparger biofilm reactor (CBSR) ***Y. Küçükağa**, A. Facchin, V. Stefanelli, S. Kara, C. Torri* *(University of Bologna, AD-544)*	Acclimation, aggregation, and retention of distinct microbial groups during saline anaerobic digestion *C.B. Vargas, **M.C. Gagliano**, V. O'Flaherty* *(Wetsus – European Centre of Excellence for Sustainable Water Technology, AD-663)*	Waste to profit: Circular economy approach towards the effective anaerobic digestion of paunch using potassium hydroxide pre-treatment ***X. Bai**, M. Rebosura Jr, M. Grassino, P. Jensen* *(University of Queensland, AD-392)*

June 4, 2024 (Tuesday)			
10:30-10:45	Volatile fatty acids production from bioplastics: A new opportunity to create a closed-loop bioplastics supply chain ***O. García-Depraect***, *R. Lebrero, R.A. Börner, R. Muñoz* *(Institute of Sustainable Processes, AD-694)*	Optimisation of anaerobic co-digestion for increased biomethane production and digestate sanitisation ***S. Nolan***, *A. Trego, N. Waters, C. Thorn, O. Fenton, K.G. Richards, V. O'Flaherty, U.Z. Ijaz, F. Abram* *(National University of Ireland, AD-638)*	Intensification of thermophilic anaerobic digestion of sewage sludge by thermal hydrolysis *A. Mágrová,* ***P. Jeníček****, M. Srb, P. Sýkora, J. Rosický, L. Appels* *(University of Chemistry and Technology Prague, AD-175)*
10:45-11:15	**Coffee Break+Poster Session**		
11:15-12:20	**Session 4**		
	Circular Bioeconomy Concept: Nutrient, Energy, and Product Management Through Anaerobic Digestion / Economic and Environmental Sustainability Analysis of Anaerobic Processes / Policy Issues Related with Anaerobic Digestion **(Chair: Jorge Rodriguez R.)** **Hall: Üsküdar 1**	**Modeling, Optimization, Instrumentation, and Control of Anaerobic Processes / Utilization of Direct Electron Transfer Materials in Anaerobic Digestion / Advanced Processes and Technologies for Enhancing Waste Degradation and Biogas Production** **(Chair: Tuba Hande Erguder Bayramoglu)** **Hall: Üsküdar 2**	**Anaerobic Co-digestion for Maximizing Biogas Production / Biogas Upgrading and Use Areas / Anaerobic Digestion Coupled with Algal Biomass: Algae-Microbiome Interactions** **(Chair: Zhongbo Zhou)** **Hall: Üsküdar 3**
11:15-11:20	Greening livestock farming: A multi-platform photo-biorefinery for sustainable pig slurry management *A.P. De Nicolás, M. Ventura, Y. Segura, I. Pariente, J.A. Melero, F. Martínez, A.S. Toro, S. Astals, F. Mas, J. Dosta,* ***D. Puyol*** *(University Rey Juan Carlos, AD-708)*	Model-based evaluation of the effect of thermal hydrolysis on biogas production in anaerobic sludge digestion ***G. Kor Bicakci***, *A. Erdincler, C. Eskicioglu, E. Cokgor, G. Insel* *(Bogazici University, AD-420)*	Feasibility of dairy industry wastewater and microalgae co-digestion for on biomethane production ***O. Isik***, *M. Atilgan, H. Guven, H. Ozgun, M.E. Ersahin* *(Istanbul Technical University, AD-668)*

June 4, 2024 (Tuesday)

11:20-11:25	Coupling mainstream sludge minimization to centralized anaerobic digestion of municipal sewage sludge: Technology advances and sustainable strategies for circular economy ***F. Di Capua***, *R. Morello, G. Esposito, E. Sahinkaya, A. Giordano* *(University of Basilicata, AD-162)*	Transposable decision-making tool for the energy recovery of grasslands respecting biodiversity using coupled experimental design and GIS ***A. Dujany***, *Y. Lebrinia, J.J. Victora, L. Kervroëdanb, P. Trubertd, L. Andrée, S. Potel* *(University of Picardie Jules Verne, AD-355)*	Comprehensive full-scale experiences on the operation of a continuous dry anaerobic digestion plant for mechanically sorted OFMSW ***A. Musluoglu***, *R.K. Dereli, O.A. Arıkan, S.S. Övez* *(Hochreiter Biyogaz, AD-712)*
11:25-11:30	Morphological, micro-structural and microbial community changes of biodegradable plastics after anaerobic digestion *Y. Jin, C. Song, G. Liu,* ***C. Chen*** *(Beijing University of Chemical Technology, AD-734)*	Synergizing language models and biogas plant control: A GPT-4 approach ***D. Gaida*** *(TH Köln, AD-218)*	Enhancement of methane production in anaerobic co-digestion of thermally pre-treated waste activated sludge and dairy industry wastewater ***S. Shitreh***, *B. Cicekalan, M.N. Hamidi, S. Salimi Khaligh, A. Yuksekdag, H. Guven, I. Koyuncu, H. Ozgun, M.E. Ersahin* *(Istanbul Technical University, AD-612)*
11:30-11:35	Innovative strategy for phosphorus removal using granular anaerobic sludge pellets *M.M. Silva, T.R. Giraldi,* ***R.P. Rodriguez*** *(Federal University of Alfenas, AD-86)*	Grid-synchronized hydrogen injection for biogas upgrading: A modeling approach ***S.A. Tabar***, *M. Rajaei, R.K. Dereli, S. Cotterill, E. Casey* *(University College Dublin, AD-486)*	Enhancing biogas potential of landfill leachates: A comparative study of anaerobic co-digestion with industrial by-products ***I. Isik***, *B. Ozturk* *(Ondokuz Mayıs University, AD-603)*
11:35-11:40	Anaerobic biodegradability of polylactic acid: Impact of temperature and particle size ***M. Olaya-Rincon***, *J. Serra, M. Casallas-Ojeda, J. Dosta, R. Torres, M. Martinez, S. Astals* *(University of Barcelona, AD-356)*	A new two-component hydrolysis model for the determination of biodegradation kinetics of primary and activated sludge digestion ***G. Ozyildiz***, *E. Cokgor, D. Guven, I. Takács, H. Hauduc, H. Spanjers, G. Insel* *(Istanbul Technical University, AD-646)*	Optimization of the liquid-state anaerobic digestion by defining the optimal mixture design of substrates using simplex centroid design ***A. Naji***, *A. Coutu, S.G. Rechdaoui, V. Rocher, A. Pauss, T. Ribeiro* *(Service Public Pour l'assainissement Francilien, AD-136)*

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11:40-11:45	Aquaculture waste in rural areas of Colombia as a source of biogas and nutrients in a circular economy model ***C.A. Ochoa-Durán***, *Y.C. Cortés, L.S. Cadavid-Rodríguez* *(Universidad Nacional de Colombia Sede Palmira, AD-601)*	Modelling of the influence of pH over volatile fatty acids and hydrogen production from sugarcane vinasse *G.F. Resende, F. Eng, R. Ribeiro, M. Zaiat,* ***P.T. Couto*** *(University of São Paulo, AD-217)*	The influence of different biochar production temperatures on its effectiveness of increasing biomethane yield from glucose ***M. Kozłowski***, *K. Świechowski, A. Siedlecka, K. Sobieraj, A. Białowiec* *(Wrocław University of Environmental and Life Sciences, AD-584)*
11:45-11:50	Effect of thermal pretreatment on resources valorization of food waste through anaerobic digestion ***Y.Y. Lee***, *C.H. Huang, C. Fan* *(National Taiwan University, AD-97)*	Enhancing mixing efficiency in an anaerobic digester: A CFD-based approach for optimal submersible mixer placement ***P. Taaffe***, *C. D'Bastiani* *(Technological University Dublin, AD-151)*	Lab and pilot scale demonstration of biological CO_2 hydrogenation *A. Xirostylidou, A. Chatzis,* ***M. Gaspari***, *G. Ghiotto, L. Treu, S. Campanaro, K.N. Kontogiannopoulos, P.G. Kougias* *(Hellenic Agricultural Organisation DIMITRA, AD-636)*
11:50-11:55	The effect of inorganic and organic coagulants on sewage sludge anaerobic digestion following chemical treatment of municipal wastewater ***A. Cainglet***, *E. Heiderscheidt* *(University of Oulu, AD-473)*	Bioconversion of CO_2 to biomethane by H_2-assisted in situ anaerobic co-digestion. A simulation study with ADM1 *K. Morales-Castro,* ***S. García-Gen*** *(Universidad Técnica Federico Santa Maríav, AD-493)*	Biogas upgrading in an anaerobic membrane biofilm reactor (AnMBfR) ***M. Kozak***, *B.Z. Zaimoğlu, A. Duyar, E.O. Köroğlu, I. Ayranpınar, S. Göçer, K. Cırık* *(Cukurova University, AD-98)*
11:55-12:00	Evaluating the environmental performance of anaerobic membrane bioreactors and other anaerobic systems by using LCA approach ***M. Yilmaz***, *I. Koyuncu* *(Istanbul Technical University, AD-581)*	Multirate extended kalman filter design for monitoring of agricultural anaerobic digestion plants ***S. Hellmann***, *T. Wilms, S. Streif, S. Weinrich* *(Deutsches Biomasseforschungszentrum, AD-366)*	Production of solid carbon and hydrogen from biomethane using non-thermal plasma *R.R. Nair, S. Chavan,* ***M. Köttner*** *(K. Kayser IBBK Fachgruppe Biogas GmbH, AD-106)*
12:00-12:05	The potential of agricultural residues for boosting biomethane production - A case study for Bavaria ***M. Steindl***, *T. Venus, K. Koch* *(Bavarian State Research Center for Agriculture, AD-141)*	Modelling fermentative biogas upgrading using a hybrid dynamically constraint flux balance analysis approach ***A. Grimalt-Alemany***, *I. Angelidaki* *(Technical University of Denmark, AD-692)*	Investigation of siloxanes removal with UV post treatment of biogas ***U.G. Kıral***, *I. Akmirza, R. Muñoz* *(Gebze Technical University, AD-732)*

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12:05-12:10	Efficiency evaluation for CO_2 absorption with new generation ionic liquids ***C. Delibas***, *S.S. Ovez, V. Uyak* *(Istanbul Technical University, AD-726)*	Hydrodynamic shear effects on anaerobic granule properties: From bulk approaches to quantified details ***H. Eslami***, *H. Bruning, H.H.M. Rijnaarts, D. Sudmalis* *(Wageningen University and Research, AD-515)*	Exploring single-cell protein production from food waste through anaerobic digestion-induced biomethane fermentation *K. Rasool,* ***H.M.A. Shahzad***, *K.A. Mahmoud* *(Hamad Bin Khalifa University, AD-540)*
12:10-12:15	Retrofitting proposal for rural septic tanks towards carbon neutrality ***T. Gómez-Borraz***, *C. Cuthill, T. Herzyk, S. Connelly, W.T. Sloan* *(University of Glasgow, AD-674)*	Impact of nanomaterial structural properties on anaerobic digestion of municipal sludge ***M. Goodarzi,*** *M. Arjmand, C. Eskicioglu* *(University of British Columbia, AD-164)*	A microalgae biorefinery approach: Polyhydroxyalkanoate (PHA) production from microalgal biomass ***T. Ervan***, *E.F. Aydar, Z. Mertdinc, K.N. Kasapoglu, E. Demircan, S. Övez, B. Özcelik* *(Istanbul Technical University, AD-318)*
12:15-12:20	Green anaerobic conversion of urban organic waste into marketable caproic acid through in situ lactate-driven chain elongation with natural pH control *B. Tonanzi,* ***A. Gallipoli***, *A. Frugis, A. Gianico, M. Lazzazzara, F. Angelini, S. Angelini, S. Crognale, M. Sbicego, G. Cecchini, C.M. Braguglia* *(Water Research Institute, CNR-IRSA, AD-583)*	Effects of magnetite nanoparticles on the degradation of phenol and P-cresol in anaerobic membrane bioreactor (AnMBR) ***R.W. Kurnianto***, *M. Elshourbagy, B. Egerland Bueno, H. Spanjers, J. van Lier* *(Delft University of Technology, AD-541)*	The role of anaerobic digestion in the sustainable management of olive mill solid waste: a techno-economic study ***S. Correa***, *M. Llamas, F. Passos, F.G. Fermoso, I. Ferrer* *(Universitat Politècnica de Catalunya, AD-479)*
12:20-13:30	**Lunch**		

June 4, 2024 (Tuesday)

	Session 5		
13:30-16:15	**Anaerobic Treatment of Industrial, Municipal, Agricultural Waste(water)** **(Chair: Fernando G. Fermoso)** **Hall: Üsküdar 1**	**Valorization of Anaerobic Digestate from Biowaste to High Value-Added Products** **(Chair: Francis de los Reyes III)** **Hall: Üsküdar 2**	**Advanced Processes and Technologies for Enhancing Waste Degradation and Biogas Production** **(Chair: Robbert Kleerebezem)** **Hall: Üsküdar 3**
13:30-14:00	**Keynote Speech** **Top-Down and Bottom-Up Design Approaches to Advance Anaerobic Biotechnologies** *Shilva Shrestha, Johns Hopkins University*	**Keynote Speech** **Anaerobic Digestion Technology as a Holistic Option for Integrated Management of Municipal Wastewaters and Kitchen Wastes** *Izzet Ozturk, Istanbul Technical University*	**Keynote Speech** **Microorganisms Assisting the Green Transition** *Irini Angelidaki, Technical University of Denmark*
14:00-14:15	Three phase separators for anaerobic granular reactors; Review of 4 decades of full scale designs ***J.H.F. Pereboom*** *(Waterboard Rijnland, AD-300)*	Nutrients recovery by sequential filtration steps from agricultural digestate: A pilot-scale case study ***F. Battista***, *M. Cirilli, F. Rizzioli, D. Bolzonella, N. Frison* *(University of Verona, AD-199)*	Improving resource recovery in urban sanitation: AnMBR-based WRRF implementation for integrated bio-waste management *P. Sanchis-Perucho, M. Elvira, J.B. Giménez,* ***A. Robles****, A. Seco, J.R. Vázquez, J. Ribes* *(University of Valencia, AD-484)*
14:15-14:30	Comparison of treatment performances of acidic mine drainage (AMD) in passive bioreactors using chicken and cow manure as organic matter sources *B.A. Hatib, M. Hamed, M. Aycıl, M. Kaplan, E. Bay, E.K. Demir,* ***E. Sahinkaya*** *(Istanbul Medeniyet University, AD-170)*	A new method for reclamation of nutrients and clean water from manure and digestate ***C. Persner****, F. Geltz* *(GEMÜ Gebr. Müller Apparatebau, AD-36)*	Methane enrichment in psychrophilic anaerobic digestion of pig slurry by using iron zero-valent nanoparticles *M. Cerrillo, A. Lara, M. Moreno, N. Ruiz, L. Burgos, V. Riau,* ***A. Bonmatí*** *(Institute of Agrifood Research and Technology, AD-410)*

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14:30-14:45	CO_2 enrichment improves the efficiency of anaerobic digestion ***M.J. Bardi***, *K. Koch* *(Technical University of Munich, AD-706)*	Integration of biochar in psychrophilic anaerobic digestion: Effect on the digestate ***A. Muñoz-Muñoz***, *C. Borrero, Y. Cruz, N. Rodríguez, M. Cucina, L. Castro, H. Escalante* *(Industrial University of Santander, AD-358)*	Impacts of biochar and wood ash additives on anaerobic digestion of hydrothermally pretreated energy crops *I.A. Basar, C. Eskicioglu,* ***N.Altinay-Perendeci*** *(Akdeniz University, AD-253)*
14:45-15:00	Biochemical methane potential (BMP) of fresh leachate: A study based on collections of municipal solid waste (MSW) *F.A.T. Barbosa, I.G. Zambon,* ***L.L. Beal*** *(University of Caxias do Sul, AD-394)*	Anaerobic fermentation assisted with a novel two-step membrane process: Production of ideal feedstock for carboxylate upgrading ***H. Yesil*** *(Marmara University, AD-281)*	Enhancing the solid-state mono anaerobic digestion of pig manure using digestate biochar ***S. Riya***, *K. Ishida, A. Terada* *(Tokyo University of Agriculture and Technology, AD-565)*
15:00-15:15	Waste-to-energy nexus: Pilot demonstration of animal by-products anaerobic digestion valorisation in an industrial environment ***D. Cantabella,*** *O. Osegueda, M. Bistué, M. Martínez-Quintela, L. Mejias, L. Paredes, S. Ponsá* *(University of Vic-Central University of Catalonia, AD-225)*	Impact of solids retention time and in-line extraction on medium-chain fatty acid production from source separated organics using open-culture anaerobic fermentation ***J.K. Parmar***, *D. Dyussekenova, C.E. Lawson* *(University of Toronto, AD-71)*	Development of an anaerobic reactor removing sulfides using biogas produced in the reactor ***T. Onodera***, *Y. Takemura, M. Aoki, K. Syutsubo* *(National Institute for Environmental Studies, AD-406)*
15:15-15:30	Performance evaluation of a full-scale anaerobic internal circulation reactor treating calcium rich dairy industry wastewater ***O.D. Yepez-Ceron***, *S. Patterson, P. McCarthy, E. Casey, R.K. Dereli* *(University College Dublin, AD-450)*	Upgrading cassava pulp into value-added products using mix microbial cultures *A.I. Mulyawati, B. Sararaksa, P. Chaiprasert, V.O'Flaherty,* ***C. Nzeteu*** *(University of Galway, AD-572)*	Biogas upgrading through in-situ hydrogen bio-methanation in thermophilic and mesophilic anaerobic CSTR system ***G. Cema***, *M.S. Hellal, K K. Kadimpati, A. Ziembińska-Buczyńska, J. Surmacz-Górska* *(Silesian University of Technology, AD-702)*
15:30-15:45	Treatment of saline phenolic and petrochemical wastewater in anaerobic membrane bioreactor ***V.S. Garcia Rea***, *J.D. Muñoz Sierra, B. Egerland Bueno, D. Cerqueda Garcia, H. Spanjers, J.B. van Lier* *(Delft University of Technology, AD-665)*	Production and separation of volatile fatty acids with high purity from waste streams ***I. Owusu-Agyeman***, *M. Fridl, A. Köttö, F.M. Penha, Z. Cetecioglu* *(KTH Royal Institute of Technology, AD-328)*	Microbial adaptation avoids propionate accumulation during in situ biomethanation *L. Braga Nan,* ***M. Mahieux***, *G. Capson-Tojo, J.P. Steyer, C. Richard, Q. Aemig, J.P. Delgenès, E. Trably, R. Escudié* *(ENGIE, AD-425)*

June 4, 2024 (Tuesday)			
15:45-16:00	Enhancing biomethane production and phosphorus recovery from aerobic granular sludge through thermal alkali pretreatment ***B. Cicekalan***, *M. Atilgan, S. Kosar, H. Guven, I. Koyuncu, M.E. Ersahin, I. Ozturk, H. Ozgun* *(Istanbul Technical University, AD-608)*	Mathematical modelling of vacuum evaporation to enhance resource recovery from mesophilic anaerobic digestion *A.M. Abdelrahman, A. Khadir, D. Santoro, E. Jang, A. Al-Omari, C. Muller, K.Y. Bell, J. Walton, D. Batstone,* ***G. Nakhla*** *(University of Western Ontario, AD-396)*	Enhanced complex organic removal and tetracycline biodegradation in tetracycline-stressed anaerobic digestion systems with powdered activated carbon ***Y. Wang***, *B. Du, G. Wu* *(University of Galway, AD-395)*
16:00-16:15	Impact of carbon-based conductive materials on the performance and microbial community composition during anaerobic digestion of butanol-octanol wastewater ***J. Yang***, *K. Shen, C. He, W. Wang* *(Hefei University of Technology, AD-201)*	Liquid-liquid extraction for caproic acid recovery from mixed culture fermentation ***N. Gutowska***, *S. B. Rouhipour, M. Szczygiełda, M. Łężyk, P. Oleskowicz-Popiel* *(Poznan University of Technology, AD-368)*	Enhancing COD harvesting through high-rate activated sludge operating at very short SRT *J. Canals,* ***A. Cabrera-Codony***, *O. Carbó, M. Martín, M. Baldi, B. Gutiérrez, M. Poch, A. Ordóñez, H. Monclús* *(Universitat de Girona, AD-634)*
16:15-16:45	**Coffee Break+Poster Session**		

June 4, 2024 (Tuesday)

	Session 6		
16:45-17:50	**Anaerobic Treatment of Industrial, Municipal, Agricultural Waste(water) / Novel and Hybrid/Integrated Anaerobic Process Configurations and Emerging Technologies** **(Chair: Erkan Sahinkaya)** **Hall: Üsküdar 1**	**Microbial Diversity in Anaerobic Processes / Valorization of Anaerobic Digestate from Biowaste to High Value-Added Products** **(Chair: Recep Kaan Dereli)** **Hall: Üsküdar 2**	**Pre- and Post-Treatment Strategies for Anaerobic Digestion / Advanced Processes and Technologies for Enhancing Waste Degradation and Biogas Production / Presence and Fate of Micropollutants During Anaerobic Digestion / Water, Sanitation, and Hygiene Concerns in Resource-Constrained Communities** **(Chair: Henri Spanjers)** **Hall: Üsküdar 3**
16:45-16:50	Measuring anaerobic degradation at a wide range of temperatures using fibre bags ***A.J. Ward***, *J. Peng, H.B. Møller* *(Aarhus University, AD-200)*	Validating the Anna Karenina ecological principle to anaerobic digestion systems under ammonia stress ***M. Nikolausz***, *N. Abdulkadir, B. Rusu, W. Logroño, U.N. da Rocha* *(Helmholtz Centre for Environmental Research - UFZ, AD-461)*	Thermal hydrolysis and two-stage anaerobic digestion in the biogas production from household waste ***M.A de la Rubia***, *G. Lelli, E. Diaz, J. Colin, J.D. Marin-Batista, P. Lorenzo, A.F. Mohedano* *(Universidad Autonoma de Madrid, AD-152)*
16:50-16:55	Partial nitrification and anammox and microbial community in the co-treatment of mature leachate and domestic anaerobic effluent in different dilutions *L.A. Fernandes, T.G. Silva, C.D. Leal,* ***J.C. Araujo*** *(Federal University of Minas Gerais, AD-404)*	Microbial communities' displacements during OFMSW acid fermentation under different pH *G.D. Jojoa-Unigarro,* ***S. González-Martínez****, Y. Cuetero-Martínez, D. de-los-Cobos-Vasconcelos* *(National University of Mexico, AD-496)*	Water treatment sludge as a filtration medium for post-treatment of UASB reactor effluent *T. Nair,* ***M.M. Ahammed*** *(S.V. National Institute of Technology, AD-227)*
16:55-17:00	Production of volatile fatty acids (VFAs) from heterogeneous waste via acidogenic fermentation to obtain cost-effective bioplastics ***L. Garrote***, *D. Hidalgo, F. Infante* *(CARTIF Technology Centre, AD-727)*	Biochar addition effect on the methyl-coenzyme M reductase and acetyl-CoA synthetase gene expression during anaerobic digestion - A preliminary research *M. Sikora,* ***A. Siedlecka***, *M. Kozłowski, K. Świechowski, K. Sobieraj, K. Marycz, A. Białowiec* *(Wrocław University of Environmental and Life Sciences, AD-669)*	Recovery of bio-based volatile fatty acids (VFAs) from winery wastewater using side-stream hydrophobic membrane contactor ***R. Lo Coco***, *E. Järvelä, N. Frison, D. Bolzonella* *(University of Verona, AD-468)*

June 4, 2024 (Tuesday)

17:00-17:05	Technology decision instrument: What is the best option for anaerobic decentralized wastewater treatment systems? ***L.M.O. Cruz***, *S.L.A. Geraldo, L.G.A. Lima* *(State University of Campinas, AD-569)*	Silage indigenous community and pH were the driving forces influencing fermentation efficiency *F. Coelho, C. Nzeteu, A. Bartle,* ***A. Trego****, U. Ijaz, A. Villa, V. O'Flaherty* *(University of Galway, AD-637)*	Application of forward osmosis as a pre-concentration process for elevated biogas production in subsequent anaerobic digestion ***Y.O. Demiral****, A. Ayol* *(Dokuz Eylul University, AD-729)*
17:05-17:10	Anaerobic digestion of dewatered sludge: Effects of solids concentration and thermal pretreatment ***G.B. Kim****, J. Park, S. Park, S.H. Kim* *(Yonsei University, AD-96)*	Deterministic processes drive microbial dynamics following inhibition in anaerobic digestion ***O. Chapleur****, C. Bureau, C.Midoux* *(Université Paris-Saclay, AD-563)*	Membrane fouling during nutrient recovery from digestate using electrodialysis: Long-term operation ***J. Meng****, X. Zhan* *(University of Galway, AD-179)*
17:10-17:15	Optimization of polyhdroxyalkanoate production from anaerobic treatment products of wheat processing industry wastewaters ***S. Yilmaz****, B. Urediler, C. Yangin-Gomec, O. Karahan Ozgun* *(Istanbul Technical University, AD-687)*	Spotlighting the key microbial players in commercial biogas plants operating at hyper-mesophilic temperatures ***M.A. Nnorom****, L. Avery, R. Hough, T. Chen, D. Saroj, B. Guo* *(University of Surrey, AD-373)*	Innovative waste activated sludge pre-treatment using a raceway pond reactor: Integration of low-temperature and solar radiation ***J.P. Monteiro****, C. Cruzeiro, M. Salomé Duarte, M. Alcina Pereira, V.J.P. Vilar* *(University of Porto, AD-331)*
17:15-17:20	Diazotrophic microbial protein production from volatile fatty acids, hydrogen and carbon dioxide using purple bacteria *M.D.R. Rodero,* ***J.P. Steyer****, N. Bernet, R. Escudié, G. Capson-Tojo* *(INRAE, AD-197)*	One vs. two stage fermentation process for an enhanced MCCA production from OFMSW ***A. Duber****, R. Zagrodnik, N. Gutowska, F. Brodowski, M. Szczygiełda, M. Łężyk, S. Dabrowski, D. Witt, P. Barski, P. Oleskowicz-Popiel* *(Poznan University of Technology, AD-387)*	Comparing thermal hydrolysis and steam explosion pretreatment on methane generation from different lignocellulosic aquatic weeds ***P. Bhatia****, M. Fujiwara, T. Toda* *(Soka University, AD-586)*
17:20-17:25	Water and energy recovery of grease trap waste through hydrothermal liquefaction and anaerobic digestion *D.V. Cabrera, I. Adema-Yusta, M.J. Santibañez, C. Celis, J.W. Tester,* ***R.A. Labatut*** *(Pontifical Catholic University of Chile, AD-722)*	Maximizing VFAs production in acid digesters: A potential carbon supplement for BNR process ***A. Sayin****, D. Halim, J. Fillos, K. Ramalingam, N. Perez* *(City University of New York, AD-92)*	Two-stage anaerobic digestion of organic wastes: A review ***I. Simeonov****, L. Kabaivanova, E. Chorukova* *(The Stephan Angeloff Institute of Microbiology, AD-187)*

June 4, 2024 (Tuesday)

17:25-17:30	Next-generation anaerobic digestion technologies for sustainable bioproducts and biofuels production *M. Urgun Demirtas, H. Wu, **T. Lippert**, T. Scheve, R. Dalke* *(Northwestern University, AD-122)*	Production of volatile fatty acids through anaerobic digestion using brewer's spent grains as a substrate ***L. Ferreiro**, C. Kennes, M.C. Veiga* *(University of A Coruña, AD-523)*	Micro-aeration anaerobic digestion (MAAD) promotion of sulfide suppression and recalcitrant organics degradation in saline chemically enhanced primary treatment (CEPT) sludge cake ***Z. Wang**, R. Zhang, J.A. Natarajan, C.N.T. Vicera, S. Salim, X.Y. Lim, N.J.D. Graham, P.H. Lee, G.Y.A. Tan* *(City University of Hong Kong, AD-566)*
17:30-17:35	Conversion of acid whey into medium-chain carboxylic acids: Downstream product optimization ***A.K. Ahmed**, F.F. Almeida, E. Jones, M. Temovska, R. Hegner, J.N. Ntihuga, L.T. Angenent* *(University of Tubingen, AD-272)*	Retention time in anaerobic digestion: Leveraging digestate quality for enhanced C and N dynamics in soils *D. Fernández-Domínguez, **L. Sourdon**, M. Pérémé, F. Guilayn, J.P. Steyer, D. Patureau, J. Jimenez* *(INRAE, AD-284)*	Suppressing methane emissions in gravity sewer pipelines by ultrasonication ***M. Mohit**, O. Prakash, M. Makian, A.A. Joolaei, C.K. Lee, C. Moon, D.H. Kim* *(Inha University, AD-223)*
17:35-17:40	Integrating biological treatment and electro-oxidation in an anaerobic biomass membrane bioreactor for innovative and integrating urban wastewater treatment. ***O. El Kik**, G. Lesage, F. Zaviska, A. Sauvêtre, M. Heran, F. Lestremau* *(Université de Montpellier, AD-474)*	A study of the fertilizer properties of microalgae grown on anaerobic digestate ***E. Polat**, S. Biri, M. Altınbas* *(Sinop University, AD-498)*	How effective is hydrodynamic cavitation in increasing the methane potential of waste activated sludge of extended aeration process? ***S.N. Merdoglu**, O. Dogan, A.E. Tugtas, B. Calli* *(Marmara University, AD-153)*
17:40-17:45	Hyper-thermophilic treatment of digested cattle manure *B. Haroun, M. El-Qelish, S. Kianizadeh, C. Muller, F. Kakar, K. Bell, **G. Nakhla*** *(Western University, AD-680)*	Understanding the emergence of halotolerant filamentous fungi during high-rate anaerobic digestion of saline wastewater *C. Buenaño Vargas, **A.C. Villa Montoya**, A. Trego, U.Z. Ijaz, M.C. Gagliano, V. O'Flaherty* *(University of Galway, AD-623)*	Effect of GAC addition, application of voltage and ultrasound pretreatment on the performance of anaerobic digestion and the removal of PM substances ***E. Gkalipidou**, M. Deligiannis, G. Gatidou, O. Arvaniti, M.S. Fountoulakis, A.S. Stasinakis* *(University of the Aegean, AD-633)*

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17:45-17:50	Effects of thermal hydrolysis process on micropollutants removal and AD process performance *G. Balasundaram, P. Gahlot, **V.K. Tyagi**, A. Sahu, A.A. Kazmi* *(National Institute of Hydrology, AD-62)*	A mass balance approach on the fate and potential biotransformation of PFOA and 6:2 FTOH in anaerobic membrane bioreactors ***B.F. Costa**, C. Sawaya, J.M. Aguilar, D. Aga, A.L. Smith* *(University of Southern California, AD-697)*
18:05	**Departure to Gala Event**	
19:00	**Gala Event (Venue: Çırağan Palace)**	

June 5, 2024 (Wednesday)

08:00-08:30	**Registration (Venue: İstanbul Congress Center)**		
08:30-10:15	**Session 7**		
	Anaerobic Treatment of Industrial, Municipal, Agricultural Waste(Water) **(Chair: Xuedong Zhang)** **Hall: Üsküdar 1**	**Utilization of Direct Electron Transfer Materials in Anaerobic Digestion** **(Chair: Izzet Ozturk)** **Hall: Üsküdar 2**	**Anaerobic Co-Digestion for Maximizing Biogas Production** **(Chair: Yongqiang Liu)** **Hall: Üsküdar 3**
08:30-08:45	Anaerobic digestion of the liquid fraction of fruits and vegetables waste: Two-stage versus single-stage process *P. de Souza Almeida, C.A. de Menezes, M.S. Duarte, T.P. Silva, F.C.G. da Silva Junior, **A.B. Dos Santos**, M. Zaiat, R.C. Leitão* *(Federal University of Ceará, AD-460)*	Application of nanomaterials to improve the anaerobic treatment of industrial wastewaters ***F.J. Cervantes**, S.J. Ponce-Jahen, L.A. Ramírez-Montoya* *(Universidad Nacional Autónoma de México, AD-107)*	Enhanced Biomethane Production via hydrodynamic cavitation pretreatment and co-digestion of brown and DAF sludge ***M.S. Islam**, V.V. Ranade* *(University of Limerick, AD-282)*
08:45-09:00	Techno-economical analysis of digestate management for a full-scale continuous dry anaerobic digestion plant treating mechanically sorted OFMSW ***A. Musluoglu**, R.K. Dereli, O.A. Arıkan, H. Guven, K.E. Macin* *(Hochreiter Biyogaz, AD-713)*	Enhancing methane production and pharmaceutical removal with bio-reduced graphene oxide ***O. Casabella-Font**, J.L. Balcazar, M. Pijuan, J. Radjenovic* *(Catalan Institute for Water Research, AD-244)*	A thermophilic and mesophilic two-phase codigestion of waste activated sludge with organic fraction waste and equine manure *L. Andre, F. Picard, X. Liu, T. Moreau, A. Magis, O. Bernat, F. Routhier, A. Brunet, P. Billette, **A. Pauss**, T. Ribeiro* *(Alliance Sorbonne Université, AD-182)*
09:00-09:15	Screening organic waste streams for the selective conversion to odd-chain volatile fatty acids ***M. Mauricio-Iglesias**, M.R. Varela, M.L. Pérez, S. Balboa, M. Carballa* *(Universidade de Santiago de Compostela, AD-274)*	Enhancement of psychrophilic anaerobic digestion of cattle manure via amendment of granular activated carbon *Y. Odabas, **Y.D. Yilmazel*** *(Middle East Technical University, AD-599)*	Insights of microbial community shifts in mono- and co-digestion of sewage sludge and food waste *L. Luo, **N. Pradhan*** *(Hong Kong Baptist University, AD-33)*

June 5, 2024 (Wednesday)

09:15-09:30	Discontinuous reactor feeding regime enables selective caproic acid production in sugar-based chain elongation ***A. Regueira***, *Á. Estévez-Alonso, A. Bosmans, C. Dubaere, R. Ganigué* *(Ghent University, AD-649)*	Deciphering the impact of activated carbon, magnetite and zeolite on the activity of syntrophic cultures and pure cultures of methanogens ***C.S.N. Braga***, *G. Martins, M.S. Duarte, J.C. Sequeira, O.S.G.P. Soares, M.F.R. Pereira, I.C. Pereira, M.M. Alves, L. Pereira, A.F. Salvador* *(University of Minho, AD-367)*	Energy and silicon recovery by anaerobic co-digestion of sewage sludge and rice straw ***T. Togari***, *N. Matsuura, R. Yamamoto-Ikemoto* *(Tottori University Environmental Studies, AD-108)*
09:30-09:45	Evaluation of different HRT in hydrogen production from corn industry wastewater by dark fermentation ***M. Vázquez-López***, *R. Campuzano, D. de los Cobos-Vasconcelos, I. Moreno-Andrade* *(Universidad Nacional Autónoma de México, AD-214)*	Facilitated CO biomethanation by exogenous materials via inducing specific methanogenic pathways ***W. Wu***, *W. Wang* *(Beijing University of Chemical Technology, AD-258)*	Influence of sludge ratios and biokinetics leading to optimal design conditions for anaerobic co-digestion of excess sludge from the pulp and paper mill industry *P. Racho,* ***B. Nammana***, *N. Tantemsapya* *(Suranaree University of Technology, AD-610)*
09:45-10:00	New approaches for the optimization of the start-up of full-scale anaerobic digesters ***A. Hmaissiaa***, *Y. Barehaa, E.M. Hernándeza, S. Boivinb, C. Vaneeckhautea* *(Université Laval, AD-558)*	Zero-valent iron for biogas upgrading: Investigating main mechanisms and feeding regime assessment ***I. Vyrides***, *M. Andronikou, D. Constantinou, C.G. Samanides, P. Karachaliou, P. Charalambous* *(Cyprus University of Technology, AD-507)*	Thermophilic anaerobic co-digestion of lemnaceae biomass and swine wastewater for biogas production *L.M. Lower, W.J. Sagues, R.C. Sartor,* ***J.J. Cheng*** *(North Carolina State University, AD-132)*
10:00-10:15	Co-digestion of sewage sludge and food waste in anaerobic membrane bioreactors: Plant-wide modeling *A.I. Cengiz, S.N. Turkoz,* ***H. Gulhan***, *A.M. Abdelrahman, O. Isik, H. Guven, H. Ozgun, M.E. Ersahin* *(Istanbul Technical University, AD-578)*	Long-term operation of an Electro-Stimulated Anaerobic Reactor (ELSAR®) on brewery wastewater *A. Giménez-Lorang,* ***P. Zamora-Bonachela***, *N. Hernández-Ibáñez, X. Tomás-Ortiz, V.M. Monsalvo-García, F. Rogalla, Y. Asensio-Ramírez, R. Vera-Domingo, B. Martínez-Falagan* *(Aqualia, AD-444)*	Model-derived insights into a two-phase anaerobic dynamic membrane bioreactor system for efficient co-digestion of food waste and sewage sludge ***K. Zhu***, *T. Fairley-Wax, P. Puente, R. Karki, R. Starostka, Y. Guo, S. Skerlos, L. Raskin* *(University of Michigan, AD-543)*
10:15-10:45	**Coffee Break+Poster Session**		

June 5, 2024 (Wednesday)

	Session 8		
10:45-12:30	**Circular Bioeconomy Concept: Nutrient, Energy, and Product Management Through Anaerobic Digestion** **(Chair: Samir Kumar Khanal)** **Hall: Üsküdar 1**	**Bio-Based Fertilizers from Digestate in Green Biorefinery** **(Chair: Sergi Astals)** **Hall: Üsküdar 2**	**Pre- and Post-Treatment Strategies for Anaerobic Digestion** **(Chair: Marika Kokko)** **Hall: Üsküdar 3**
10:45-11:00	Recovery of bio-based products and bioenergy from microalgae in the framework of a circular bioeconomy ***I. Ferrer***, *M. Bellver, E. Ruales, F. Passos, M. Garfí* *(Universitat Politècnica de Catalunya·BarcelonaTech, AD-549)*	Separation mechanisms of ammonia, phosphorus and hexanoate by flow-electrode capacitive deionization *H. Sun, P. Wang,* ***X. Zhang****, S. Huang, B. Wub, M. Cui, G. Liu, Hongbo Liu, M.E. Ersahin, H. Ozgun, H. Liu* *(Jiangnan University, AD-345)*	Non-aerated partial nitrification by algal-bacterial consortia treating anaerobic effluent: Process regulation and microbial interaction ***Z. Zhou****, S. Chen, M. Zhi, Y. Xiao* *(Southwest University, AD-428)*
11:00-11:15	What is the best use of biofuels generated from biowaste? LCA and LCC of alternative strategies ***F. Pasciucco****, I. Pecorini, A. Baccioli, L. Ferrari* *(University of Pisa, AD-34)*	Novel pilot-scale biomethanation and organo-mineral fertiliser production ***I.A. Fotidis****, Y. Yan, N.I. Kallikazarou, D. Fu, T. Kotsopoulos, M.G. Antoniou* *(Ionian University, AD-704)*	Replicability and upscale of microalgae-based treatment of digestate supernatant diluted with sewage ***J. González-Camejo****, A. Petrucciani, M.G. Chieti, L. Mollo, J.C. Rojas-Castillo, N. Ciuccoli, A.L. Eusebi, A. Norici, M. Pachés, F. Fatone* *(Università Politecnica delle Marche, AD-453)*
11:15-11:30	Unlocking circular economy potential via anaerobic digestion for bioresource recovery for the Australian red meat sector *F. Tessele, K. Ferraro, L. Marinho, L. Moreno,* ***E. Bertizzolo*** *(The University of Western Australia, AD-304)*	Assessing the agronomic potential of agricultural digestate and its solid and liquid fractions ***C. Romio****, H.B. Møller, A J. Ward* *(Aarhus University, AD-397)*	Enhancing anaerobic digesters efficiency through thermal pre-treatment: Impacts on sludge composition and trace element bioavailability in full-scale sites ***N. Nasar,*** *G. Pizzagalli, F. Coulon, Y. Bajón-Fernández* *(Cranfield University, AD-538)*

June 5, 2024 (Wednesday)			
11:30-11:45	Revolutionizing ammonia control in swine manure with odor-reducing agents and their impact on anaerobic digestion efficiency ***Y.J. Jeon***, *G.S. Yun, E.S. Kim, Y.M. Yun* *(Chungbuk National University, AD-111)*	Advanced recovery of nutrients from sewage sludge to obtain biofertilizers and bio-stimulants (BIOFERES) ***R. Arnau***, *R. Tamarit, R. Garcia-Tirado, F. Valero, A. Antolí, J. Herrero, R. Romaguera, R. Hervás* *(Sociedad de Fomento Agrícola, S.A., AD-467)*	Effect of multiple pre-treatment techniques on the digestibility of aerobic granular sludge *M.S. Zaghloul, R. Salehi,* ***A. Elsayed****, R.A. Hamza, E. Elbeshbishy* *(Toronto Metropolitan University, AD-605)*
11:45-12:00	Profitability of retrofitting sewage treatment plants towards volatile fatty acids production *A. Taboada-Santos, H. Quintana,* ***C. Reino****, A. Castro-Fernandez, M. Tortosa, L. Rodríguez-Hernández, C.M. Castro-Barros* *(CETAQUA, AD-31)*	Effects of anaerobic digestion in the biochar production from organic waste fractions *M.M. Estevez, S. Eich-Greatorex,* ***R. Tomczak-Wandzel****, L. Lin, M.W. Bezabeh* *(Aquateam COWI, AD-48)*	Evaluation of different degassing membrane technologies for dissolved methane capture from AnMBR effluents ***K.M. Moyano****, P. Sanchis-Perucho, V. Sandoval-García, A. Robles* *(Universitat de València, AD-598)*
12:00-12:15	Integration of cascading biorefinery systems for circular energy recovery of whiskey distillery by-products ***A. Hackula*** *(University College Cork, AD-129)*	Pretreatment strategies of bread waste for green chemical production via chain elongation ***J.N. Ntihuga****, R.Mayer, J.G. Usack, L.T. Angenent* *(University of Tubingen, AD-275)*	Influencing factors of GHG-emissions from composting as a post-treatment of digestate ***J. Matlach****, L. Knoll* *(German Biomass Research Center, AD-642)*
12:15-12:30	Kinetic limitations in xylan conversion to caproate ***J. Iglesias-Riobó****, M. Mauricio-Iglesias, M. Carballa* *(Universidade de Santiago de Compostela, AD-363)*		Enhancing SOFC internal dry reforming compatibility: A feasibility study on the utilization of cow urine manure-derived biogas production. *H. Wasajja, R.E.F. Lindeboom,* ***H. Spanjers****, P.V. Aravind, J.B. van Lier* *(Delft University of Technology, AD-434)*
12:30-14:00	**Lunch**		

June 5, 2024 (Wednesday)

	Session 9		
14:00-15:30	**Anaerobic Treatment of Industrial, Municipal, Agricultural Waste(Water)** **(Chair: Irini Angelidaki)** **Hall: Üsküdar 1**	**Modeling, Optimization, Instrumentation, and Control of Anaerobic Processes** **(Chair: Ivet Ferrer)** **Hall: Üsküdar 2**	**Presence and Fate of Micropollutants During Anaerobic Digestion** **(Chair: M. Angeles De La Rubia)** **Hall: Üsküdar 3**
14:00-14:15	Comparison of methane yield and microbial community in anaerobic digestion under ammonia-stressed conditions ***I.H. Bae***, *J.W. Jeong, C.H. Park, S.B. Park, J.H. Shin, J.M. Triolo, S.G. Shin* *(Gyeongsang National University, AD-573)*	FLEXIMETHA: Scenarios for flexible biomethane production facing the gas grid limitations ***S. Pommier***, *S. Métivier, T. Rigou* *(Université de Toulouse, AD-456)*	Effect of anaerobic digestion on pristine and weathered microplastics in sewage sludge ***E. Yli-Rantala***, *M.C. Lessa Belone, E. Sarlin, M. Kokko* *(Tampere University, AD-196)*
14:15-14:30	Multistep biorefinery approach for heptanoic acid and methane production from spent coffee grounds ***A. Oliva***, *S. Papirio, F. Pirozzi, G. Esposito, P.N.L. Lens* *(University of Naples Federico II, AD-377)*	The dosage-effect of biochar on a methane production during anaerobic digestion ***K. Sobieraj***, *K. Świechowski, M. Kozłowski, A. Siedlecka, A. Białowiec* *(Wrocław University of Environmental and Life Sciences, AD-502)*	Revealing the impact and migration behavior of triclosan in the anaerobic digestion of waste activated sludge ***M.H. Cui***, *L. Chen, H. Liu* *(Jiangnan University, AD-313)*
14:30-14:45	Does rapid granulation at hypersaline conditions truly require proteinaceous wastewaters - how much protein is enough? ***D. Sudmalis***, *M.C. Gagliano, M.A. Kabel, P. de Gijsel, G. Zeeman, H.H.M. Rijnaarts, H. Temmink* *(Wageningen University and Research, AD-419)*	Analysis and optimization of thermophilic anaerobic sewage sludge digestion. New modelling approach based on real WRRF data ***S. Jaray-Valdehierro***, *E. Aymerich, E.Ayesa, J. Gómez, A. López, I. Ilzarbe* *(CEIT-Basque Research and Technology Alliance, AD-64)*	The effect of bio-aging of polyethylene on anaerobic digestion and its interactions with organic contaminants ***M.D.D. Tahan***, *M. Ozdemir, I. Imamoglu, F.D. Sanin* *(Middle East Technical University, AD-278)*

June 5, 2024 (Wednesday)

14:45-15:00	Biodegradable food packaging in bio-waste management: A focus on their anaerobic biodegradability ***J.C. Suarez Murcia***, *G. Huet, J. Lamarque, E. Gastaldi, C. Sambusiti, S. Domenek, C. Marin, F. Pion, B. Grassl, F. Monlau* *(Université de Pau et des Pays de l'Adour, AD-77)*	Analysis of potential bioavailability of trace elements in manure-derived digestates ***H.L. de Castro e Silva***, *A.A. Robles-Aguilar, Ç. Akyol, E. Meers* *(Ghent University, AD-142)*	Optimization of the solid-state anaerobic digestion of swine manure for maximising the removal of antibiotics ***Á. Trujillo-Reyes***, *J. Purswani, C. Postigo, E. Aranda, A. Serrano* *(University of Granada, AD-459)*
15:00-15:15	Effects of different anaerobic inoculum on the production of volatile fatty acids at acidic pH ***E. Jiménez-Páez***, *M. Gacitúa, D. Correa-Galeote, S. Zahedi, F.G. Fermoso, A. Carvajal, A. Serrano* *(University of Granada, AD-463)*	Chemical oxygen demand measurements of acidified anaerobic reactors: How reliable are laboratory results? *J.A. Gutiérrez-González, A. Fernández-Mohedano,* ***F. Raposo*** *(Instituto de la Grasa-CSIC, AD-226)*	Fate of antibiotic resistance genes and resistant bacteria under various operating temperatures of anaerobic digestion ***J.M. Budatala***, *S. Purkrtova, M.A. Lopez Marin, L. Appels, J. Bartáček* *(KU Leuven, AD-379)*
15:15-15:30	Biofertilizer production by purple phototrophic bacteria in anaerobic wastewater treatment *F.J. Delgado, E. Marín, M. Tena,* ***P. Zamora***, *V. Monsalvo, F. Rogalla* *(Aqualia, AD-271)*	Flow and mixing in a full-scale gas-mixed anaerobic digester ***P. Wei***, *W. Uijttewaal, H. Spanjers, M. de Kreuk, J. B. van Lier* *(Delft University of Technology, AD-329)*	Viability of low-cost digesters in decentralized wastewater treatment in the Ecuadorian Amazon: The crucial role of wetlands ***J. Martí-Herrero***, *I. Erazo, R. Jimenez, Z. Niño-Ruiz* *(Universidad Regional Amazonica Ikiam, AD-616)*
15:30-16:00	**Coffee Break+Poster Session**		
16:00-16:30	**Proposals for Organization of AD19 (Hall: Üsküdar 1-2-3)**		
16:30-17:30	**Panel Session (Hall: Üsküdar 1-2-3)**		
17:30-18:00	**Lettinga Award (Hall: Üsküdar 1-2-3)**		

June 5, 2024 (Wednesday)	
18:00-18:30	AD18 Awards (Hall: Üsküdar 1-2-3)
18:30-19:00	Closing Session (Hall: Üsküdar 1-2-3)

June 6, 2024 (Thursday)

08:00-18:00	**Technical Tour (Departure From/Arrival to Istanbul Congress Center)**

POSTER SESSION (Hall: Çamlıca)

AD-16	Anaerobic digestion intensification: Rethinking the sizing of municipal sludge digesters *R. Moscoviz, **M. Haddad**, M. Rouez, D. Conteau* *(SUEZ)*
AD-20	Anaerobic digestion within 10 days: Temperature-phased anaerobic digestion of hydrolyzed sludge ***A. Mágrová**, M.A. Lopez Martin, L. Appels, P. Jeníček* *(University of Chemistry and Technology)*
AD-21	Biomethanation using froth-filled reactors ***H. Ding**, Y. Kasaki* *(Osaka Institute of Technology)*
AD-24	Hydrothermal pre-treatment for improving BMPs of fossil-based biodegradable plastics ***S. Kang**, S. Im, J. Kang, I. Hwang* *(Korea Institute of Civil Engineering and Building Technology)*
AD-37	Effects of a side-stream ammonia stripping treatment on the biogas production of 32 full-scale digesters ***G. Carraro**, H. Oliveira, T.M. Anacleto, L. Šafarič, S.S. Yekta, A. Björn, A. Enrich-Prast* *(Linköping University)*
AD-39	Environmental impacts of an anaerobic digestion facility producing volatile fatty acids from waste *D. Yalcinkaya, I. Owusu-Agyeman, N. Elginoz, Z. Cetecioglu Gurol, **F. Germirli Babuna*** *(Istanbul Technical University)*
AD-40	Simple modeling of anaerobic digestion for mitigating renewable energy variability in rural areas ***T. Hidaka**, M. Nakamura, F. Oritate* *(Kyoto University)*

POSTER SESSION (Hall: Çamlıca)

AD-42	A novel approach to estimate methanogenic pathways in biogas reactors with stable carbon isotopes ***H.R. Oliveira***, *T.M. Anacleto, G. Carraro, F. Abreu, A. Enrich-Prast* *(Centro Federal de Educacão Tecnológica Celso Suckow da Fonseca)*
AD-46	Microbial diversity and community resilience in co-fermentation of activated sludge and food waste *N. Perez-Esteban,* ***S. Astals****, J. Vives-Egea, J. Dosta, M. Peces* *(University of Barcelona)*
AD-49	Bioplastics as a new industrial waste subjected to anaerobic digestion ***R. Tomczak-Wandzel****, B. Szatkowska* *(Aquateam COWI)*
AD-53	Comparative metagenomic analysis of anaerobic digestion and co-digestion of biowaste ***M. Tobajas****, E. Suárez, N.D. Duran, A.F. Mohedano, M.A. de la Rubia* *(Universidad Autónoma de Madrid)*
AD-56	Performance of autochthonous and allochthonous inocula for hydrogen production from banana waste *C. da Costa Freire, G.S. Ribeiro,* ***S.I. Maintinguer*** *(UNESP/IPBEN Bioenergy Research Institute)*
AD-57	The impact of pinewood biochar on enhancing biogas production from anaerobic digestion of cheese wastewater ***J. Ning****, M. Kamali, L. Appels* *(KU Leuven)*
AD-59	Mathematical modeling as a tool for the comprehension of anaerobic digestion kinetics *I.M.G. August, A.P. Paulinetti, L.P.P. Batista, A.G.B. Tavares, R. Albanez, S.M. Ratusznei, G. Lovato,* ***J.A.D. Rodrigues*** *(Mauá School of Engineering)*

POSTER SESSION (Hall: Çamlıca)

AD-60	Microbial community structure of anaerobic digester enriched with halloysite nanotube and magnetite ***C. Rhee***, *S. Park, J. Shin, J. Jeon, Y. Lee, S. Shin* *(Gyeongsang National University)*
AD-67	Carbon-based materials: Novel electron acceptors for nitrification ***S.J. Ponce-Jahen***, *F.J. Cervantes* *(Universidad Nacional Autónoma de México)*
AD-68	The potential of cattle manure to generate CH_4 in anaerobic co-digestion of industrial wastes ***C.V. Rodrigues***, *F.P. Camargo, V.A. Lourenco, I.K. Sakamoto, S.I. Maintinguer, E.L. Silva, M.B.A. Varesche* *(University of São Paulo)*
AD-73	Numerical simulation of hydrodynamics and heat transfer in a full-scale anaerobic biodigester ***S. Vega***, *L. Jara, J. Gutiérrez, C. González* *(University of Santiago)*
AD-74	Biomethanation employing a pressurised reactor ***Y. Kosaki***, *H. Ding* *(Osaka Institute of Technology)*
AD-76	Comparative evaluation of the anaerobic biodegradability and impurity levels of bio-waste streams ***J.C.S. Murcia***, *F. Monlau, B. Grassl, C. Sambusiti* *(Université de Pau et des Pays de l'Adour)*
AD-78	Full scale start-up of Poul-AR installation: Pre-treatment of poultry manure enabling mono-digestion ***J.M. Carvajal-Arroyo***, *N. Carlier, M. Picavet, J.W. Bijnagte, A.V. Hoije, B. Colsen, N. Tack, J. de Vrieze* *(Colsen)*

POSTER SESSION (Hall: Çamlıca)

AD-79	Antibiotic resistance during anammox treatment of domestic wastewater & landfill leachate in Brazil *L.A. Vasquez, **J.C. de Araújo**, L. Fernandes, B. Piteira, E. Machado, C. Leal, N. Mladenov, M. Verbyla* *(Universidade Federal de Minas Gerais)*
AD-80	Evaluation of long-term sewage treatment performance using newly developed coconut fiber carrier ***T. Okubo**, N. Kubo, S. Toriumi, R. Kuwabara, T. Watari, V.K. Tyagi, S. Uemura* *(Kisarazu College)*
AD-81	Nitrogen removal performance of mainstream ANAMMOX process based on multiple regulatory strategies ***X. Gu**, X. Li, W. Huang, Y. Huang* *(Suzhou University of Science and Technology)*
AD-83	Expanding the product potential in mixed culture fermentation ***H. Prusak**, N. Gutowska, M. Szczygiełda, M. Łężyk, P. Oleskowicz-Popiel* *(Poznan University of Technology)*
AD-90	The impact of thermal hydrolysis performed at different temperatures on biomethane yield of digestate ***B. Bilgic**, L. Feng, S.J. Horn, M. Sposób* *(NIBIO)*
AD-102	Mechanical properties of extracellular polymeric substances (EPS): Do they explain the physical properties of anaerobic granules? ***C. Gao**, H.H.M. Rijnaarts, D. Sudmalis* *(Wageningen University and Research)*
AD-104	Advancing circular economy: Bio-hydrogen production via dark fermentation process from organic waste *A. Solimeno, N. Rey-Martínez, **C. Reino-Sanchez**,A. Dominguez-Pardo, M. Poch, A. Reyes, M. Ruiz, C.M. Castro-Barros* *(CETAQUA)*

POSTER SESSION (Hall: Çamlıca)

AD-105	Discovering anaerobic digester core microbial communities from biological pretreated sewage ***M.A. Holden***, *Z. Aanderud, J. Hansen, C. Jensen* *(Brigham Young University)*
AD-109	A novel PVA/Fe/Starch gel-bead biocarrier for enhanced azo dye anaerobic treatment ***T. Watari,*** *T.H. Nguyen, T.T. Vo, M. Hatamoto, T. Setiadi, T. Yamaguchi* *(Nagaoka University of Technology)*
AD-110	In-situ ultrasound cleaning strategy in an anaerobic dynamic membrane bioreactor under super high flux operation ***Y. Luo***, *H. Guo, G. Chen* *(The Hong Kong University of Science and Technology)*
AD-113	Advanced pre-treatment for waste activated sludge: Low thermal combined with solar radiation ***J. Monteiro***, *S. Duarte, A. Pereira, V. Vilar* *(University of Porto)*
AD-114	The anaerobic conversion of food waste and fish sludge-biorefinery for the high value-added products ***B. Szatkowska***, *R.T. Wandzel* *(Aquateam COWI)*
AD-119	Anaerobic digestion of waste activated sludge: Insights from pre- and post-treatment configurations ***B.K. Ahn***, *Y.M. Yun* *(Chungbuk National University)*
AD-124	Impact of magnetite on anaerobic digestion of swine manure with high ammonia levels ***J.S. Lee***, *Y.M. Yun* *(Chungbuk National University)*

POSTER SESSION (Hall: Çamlıca)

AD-125	Improving biohydrogen and biomethane production through addition of combined conductive materials ***T.H. Kim***, *Y.M. Yun* *(Chungbuk National University)*
AD-127	Effects of the permeate flux in a dynamic membrane bioreactor for continuous biohydrogen production. ***A.K. Pandey***, *S.H. Kim* *(Yonsei University)*
AD-130	A novel two-phase anaerobic digestion biorefinery to produce biogas and biobased chemicals ***R. Shinde***, *S. Barth, J.D. Murphy, D.M. Wall* *(University College Cork)*
AD-131	Fermentative hydrogen production from lactic acid: A study on metabolic and taxonomic profile ***L. Luo***, *N. Pradhan* *(Hong Kong Baptist University)*
AD-133	Methane yield prediction of anaerobic digestion using in-situ monitoring for deep learning process ***G.O.O. Vanegas***, *Y.A. Lee, H.I. Lee, Y.J. Lim, H.W. Kim* *(Jeonbuk National University)*
AD-135	Comparison of thermal pretreatments to enhance degradation of carbamazepine in anaerobic digestion ***G. Kor-Bicakci***, *T. Johnson, C. Eskicioglu* *(Bogazici University)*
AD-137	Deciphering the effect of propionic acid on anaerobic digestion of sludge: gas production and microbial community structure *C. Soulard, X. Liu, A. Pauss,* ***L. André****, T. Ribeiro, S. Guérin, V. Rocher, C. Lacroix, C. Bureau, C. Midoux, O. Chapleur, A. Bize, C. Roose-Amsaleg* *(Université d'Artois)*

POSTER SESSION (Hall: Çamlıca)

AD-138	Inhibition of anaerobic digestion of urban sewage sludge by sodium propionate: Biogas production and microbial community shift *J.A. Agumah, X. Liu, L. André, S.G. Rechdaoui, V. Rocher, C. Lacroix, O. Chapleur, A. Bize, C.R. Amsaleg, A. Pauss,* ***T. Ribeiro*** *(Université de technologie de Compiègne)*
AD-143	A new integrated device with auto-recycle for the treatment of high ammonia and low C/N wastewater ***X. Li****, H. Yong* *(Suzhou University of Science and Technology)*
AD-145	Anaerobic treatment of process water from hydrothermal carbonization of food waste in UASB reactor ***A.F. Mohedano****, R.P. Ipiales, E. Díaz, M. De Los Angeles De La Rubia* *(Universidad Autonoma de Madrid)*
AD-157	Insights into chain elongation and microbial community for caproic acid production with mixed inocula *D.P.P. Gomes, T.S. Santos, F. Motteran, M. Kato,* ***L. Florencio****, B. Fernandes, S. Machado, S. Gavazza* *(Federal University of Pernambuco)*
AD-159	Enhancement of biohydrogen production from fermented acidic cheese whey by lactate-acetate pathway ***E.J.O. Frías****, K.M.M. Páez, G. Buitrón* *(Universidad Nacional Autónoma de México)*
AD-163	Biogas potential of waste sludge from an MBR treating textile wastewater at different SRTs *E. Gocen, E.K. Demir, T. Yilmaz, S.T. Basaran,* ***E. Sahinkaya*** *(Istanbul Medeniyet University)*
AD-168	Enhanced biogas production and phosphorus recovery of organic sludge by an AnMBR together with PNA ***G. Guangze****, Z. Shitong, C. Yujie, L.Y. You* *(Tohoku University)*

POSTER SESSION (Hall: Çamlıca)

AD-169	Production of high-value-added products by photofermentation using fermented wine lees supplemented with Fe and levulinic acid *V. Montiel-Corona, **G. Buitrón*** *(Universidad Nacional Autonoma de Mexico)*
AD-172	VarBUQ: Bayesian uncertainty quantification for anaerobic digestion ***A. Picard**, G. Capson-Tojo, B. Guedj, R. Moscoviz* *(SUEZ CIRSEE)*
AD-174	Short-chain fatty acids production from tannery sludge in zeolite-assisted anaerobic process ***G.A. Tuci**, M. Gottardo, P. Pavan, F. Valentino* *(Ca' Foscari University of Venice)*
AD-181	Impact of thermo-rheological behaviour on sludge transport in the anaerobic digestion process *A. Charles, **T. Ribeiro**, M. Oliveira, S. Azimi, V. Rocher, J.C. Baudez, A. Bahrani* *(University of Lille)*
AD-192	Effects of hydrodynamic cavitation on waste activated sludge characteristics ***S. Kolbl Repinc**, M. Dular, J. Gostiša, A. Kaurin, M. Petkovšek, B. Stres, M. Zupanc* *(University of Ljubljana)*
AD-193	Enhanced recovery of concentrated phosphate from digested effluents through acidification ***M.B. Vanotti**, A.A. Szogi* *(United States Department of Agriculture, Agricultural Research Service (USDA-ARS))*
AD-195	Sustainable waste management towards extended biogas production from agro-food wastes *A. Akhbari, **M.M. Habashy**, A. Björn* *(Linköping University)*

POSTER SESSION (Hall: Çamlıca)

AD-202	Thermophilic anaerobic digestion of sewage sludge with hydrogen addition: Methane production and pH dynamics ***C.Y. Kwang***, *T. Hidaka, Y. Nomura, T. Fujiwara, S. Akimoto, J. Tsubota* *(Kyoto University)*
AD-204	Stimulation of methane production through CO_2 enrichment ***F. Müller***, *K. Koch* *(TU Munich)*
AD-205	Nutrients recovery from agricultural digestate by sequential pressure driven membranes ***F.Rizzioli***, *D. Bolzonella, A. Grönroos, F. Battista* *(University of Verona)*
AD-207	The ammonia stripping treatment to improve the biogas production and recover N at Linköping sewage biogas plant ***G. Carraro***, *K. Smolarczyk, J. Moestedt, R. Sehlén, A. Enrich-Prast* *(Linköping University)*
AD-215	Hybrid modelling of dynamic anaerobic digestion process with neural networks and BMP measurements ***A. Meola***, *S. Weinrich* *(DBFZ Deutsches Biomasseforschungszentrum gGmbH)*
AD-220	Assessment of biogas production potential of chemically pretreated rice straw *S. Dahal, S. Gurung,* ***A. Ghimire*** *(Kathmandu University)*
AD-228	Development of a new integrated approach to assess product qualities and environmental impact of anaerobic digestion *M. Pérémé,* ***J.P. Steyer***, *J. Jimenez* *(INRAE-LBE)*

POSTER SESSION (Hall: Çamlıca)

AD-229	Alkaline treatment of the solid fraction of digestate and agricultural by-products for enhanced biogas recovery ***C. Romio***, *H.B. Møller, M.V.W. Kofoed* *(Aarhus University)*
AD-230	Microbial community and granule growth dynamics during de novo granulation: How wastewater composition affects this? ***C. Gao,*** *A. Doloman, E. Alaux, D.Z. Sousa, H.H.M. Rijnaarts, D. Sudmalis* *(Wageningen University and Research)*
AD-235	Sulfur compounds in anaerobic digestion: Impact on methane yield and microbial community ***P. Ghofrani-Isfahani***, *A. Kovalovszki, J. Johansen, I. Angelidaki* *(Technical University of Denmark)*
AD-239	Production of biohydrogen in batch systems from the co-digestion of different organic wastes ***D.V. Villalobos-Vázquez***, *M. Vázquez-López, I. Moreno-Andrade* *(Universidad Nacional Autónoma de México)*
AD-242	Rheological properties of agricultural digestate *C. Romio, H.B. Møller,* ***A.J. Ward*** *(Aarhus University)*
AD-248	Co-fermentation of wine lees and waste activated sludge: Effect of pH and wine lees type ***A. Lanfranchi***, *C. Cavinato, E. Trably* *(INRAE)*
AD-250	Mixed flow reactor improves performance of the mainstream partial nitritation-anammox over upflow reactor ***P.Y. Takeda***, *C.T. Paula, A. Do Vale Borges, A.E. Shibata, L.C. Grangeiro, M.H.R.Z. Damianovic* *(University of São Paulo)*

POSTER SESSION (Hall: Çamlıca)

AD-251	Categorizing reactor types and effects in rotary generators of hydrodynamic cavitation for waste sludge treatment ***M. Blagojevič***, *S. Kolbl Repinc, B. Bizjan, G. Rak* *(University of Ljubljana)*
AD-252	Methane yield response to pretreatment is dependent on substrate chemical composition ***A. Enrich-Prast***, *B.K. Suzuki, A. Björn, S.S. Yekta, L. Masuda, V.P. de Oliveira, T. Anacleto* *(Linköping University)*
AD-254	Powdered and granular anaerobic sludge as biosorbent of copper- and zinc-rich wastewaters *A.B.S. Aguiar, J.M. Costa, G.E. Santos, G.P. Sancinetti,* ***R. Rodriguez*** *(Federal University of Alfenas)*
AD-255	Assessing phytotoxicity of anaerobic digestate from different sources ***T. Anacleto***, *H.R. Oliveira, G. Carraro, A. Björn, S.S. Yekta, L. Šafarič, É. Pinheiros, A. Enrich-Prast* *(Universidade Federal do Rio de Janeiro)*
AD-257	Effect of trace elements supplementation on the mesophilic anaerobic digestion of food waste *A. Halwai, A. Thakali,* ***A. Ghimire*** *(Kathmandu University)*
AD-261	Mesophilic versus thermophilic digestion of municipal sludge in the presence of polypropylene microplastics ***O.Altuntas***, *F.D. Sanin* *(Middle East Technical University)*
AD-262	Nutrient recovery from digestate using gas-permeable membrane technology and struvite formation *B. Riaño,* ***B.M. Salces***, *V. Oliveira, C.D. Ferreira, M.C.G. González* *(Agricultural Technological Institute of Castilla y León)*

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AD-263	Mixed culture biotechnology for the selective production of ethanol in non-sterile environments ***Á. Estévez***, *R. Kleerebezem, R. Ganigué* *(Ghent University)*
AD-264	A new diffusion-driven flat-sheet membrane bioreactor for precise oxygen dosing in microaeration research *M. Zhou,* ***J.N. Ntihuga****, L.T. Angenent, J.G. Usack* *(University of Tubingen)*
AD-265	Characterization of refractory organic matter from sludge treated by hydrothermal carbonization: Sludge type and temperature influence *S. Faixo, J.C. Garrigues, S. Mazeghrane,* ***M. Haddad****, G. Gaval, E. Paul* *(Université de Toulouse)*
AD-266	Bench-scale verification of in-situ biomethanation technology using a 2000L scale digester in a waste water treatment plant ***S. Akimoto****, J. Tsubota, I. Angelidaki, T. Hidaka, T. Fujiwara* *(Osaka Gas Co., Ltd.)*
AD-273	Impact of sulfate, salt, and redox mediator on the anaerobic decolorization of the azo dye Reactive Black 5 *J.K.S.O. Júnior, A.B. Dos Santos, M.E.R. Da Silva,* ***P.I.M. Firmino*** *(Federal University of Ceará)*
AD-276	Performance of AnMBR equipped with external ultrafiltration membrane on the treatment of raw beet vinasse *B.E. Bueno,* ***A.L.M. Brito****, M. Zaiat, J.B. Van Lier* *(University of Paraiba State)*
AD-279	Tailoring fermentation pathways during the anaerobic co-valorization of food waste and primary sludge to produce green energy and platform chemicals ***A. Prats****, A. Ríos-Mejia, J.P. Gallardo-Mejías, Á. Robles, M.V. Ruano, G. Capson-Tojo* *(Universitat de València)*

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AD-283	Towards comparability of VFA measurements in anaerobic digestion: Linearity tests in synthetic medium with titration and photometry ***A. Ruf***, *S. Krause, C. Schaum* *(Bundeswehr University Munich)*
AD-285	Micro-aeration to improve oleate degradation in bioreactors *C.P. Magalhães,* ***M.S. Duarte****, M.A. Pereira, A.J.M. Stams, A.J. Cavaleiro, M.M. Alves* *(University of Minho)*
AD-286	Environmental life cycle assessment of caproic acid recovery from brewery waste streams ***S. Shrestha****, M. Abdullah, L. Raskin, S. Skerlos* *(University of Michigan)*
AD-287	Anaerobic digestion as a core technology in addressing the global sanitation crisis: Challenges and opportunities ***X. Fonoll****, R. Starostka, L. Raskin, G. Zeeman, F. de los Reyes III, J. Waechter, D. Yeh, T. Radu* *(University of Texas at Austin)*
AD-289	Application of one- and two-phase anaerobic processes for winery wastewater treatment and biogas production *F.R. Chavez, M.L. Reyes,* ***G. Moreno****, G. Buitrón* *(Universidad Nacional Autónoma de México)*
AD-298	Challenges in cocoa waste management: Exploring the potential of mucilage as a sustainable resource in Colombia *M.G. Jácome, J. Navarro, J. Nieto,* ***L. Castro****, H. Escalante* *(Universidad Industrial de Santander)*
AD-301	Retention of conductive materials using magnetic forces to overcome ammonia inhibition in anaerobic digestion ***K. Ueno****, G. Yoshida, M. Farghali, M. Iwasaki, Y. Sakai, I. Ihara* *(Kobe University)*

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AD-302	Bio-based fertiliser from anaerobic digestate derived from red meat processing industry by-products ***F. Tessele***, *K. Ferraro, E. Bertizzolo, I. Kininmonth* *(Tessele Consultants)*
AD-303	CO_2 recovery from anaerobic digestion: Application, technologies and potential in the Australian red meat industry ***F. Tessele***, *K. Ferraro, L. Marinho* *(Tessele Consultants)*
AD-305	Systematic microbiome data analysis: Identifying potential reproducible early warning indicators for ammonia inhibition ***J. Cortez-Cervantes***, *I. Moreno-Andrade, P. Cervantes-Avilés, J. Carrillo-Reyes* *(Universidad Nacional Autónoma de México)*
AD-306	Iron nanoparticles application for increasing volatile fatty acid production via anaerobic digestion ***N. Hoffmann***, *C. Vergara, G. Ciudad, G. Tortella, G. Martins, O. Rubilar* *(Universidad de La Frontera)*
AD-309	Electrical stress and acid orange 7 synergistically clear the blockage of electron flow in the methanogenesis of low-strength wastewater ***Z. Guo***, *W. Liu* *(Jiangsu University of Science and Technology)*
AD-311	Enhancing anaerobic membrane bioreactor performance for liquid dairy biomass treatment using conductive materials ***M. Miyahara***, *G. Yoshida, M. Farghali, M. Iwasaki, I. Ihara* *(Kobe University)*
AD-314	Enhanced direct gaseous CO_2 fixation into higher bio-succinic acid production and selectivity ***W. Wang***, *W. Wu* *(Research Center for Eco-Environmental Sciences)*

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AD-315	Towards the production of health-safe single cell proteins from fermentation gas in urban bio-refineries ***J.P. Gallardo-Mejías***, *A. Prats, A. Ríos-Mejia, L.P. Alcañiz, M.V. Ruano, Á. Robles* *(Universitat de València)*
AD-321	Global analysis of AD microbiomes reveals the impact of experimental conditions and synthetic waste on ecosystem stability ***C. Keating***, *A. Trego, V. O'flaherty, U.Z. Ijaz* *(Durham University)*
AD-323	Identification of interactions in substrate mixtures for hydrogen production by dark fermentation ***L. Perat***, *R. Escudié, N. Bernet, C. Richard, M. Jégoux, M. Juge, E. Trably* *(Université de Montpellier)*
AD-324	Biological methanization of CO_2 with external hydrogen – Pilot-scale experiences ***D. Pokorna***, *Z. Varga, J. Zabranska* *(University of Chemistry and Technology)*
AD-327	Anaerobic digestion of vinasse in two different configurations of pilot scale reactors ***V. Del Nery***, *I. Alves, M.H.Z. Damianovic, M. Araujo Jr, E.C. Pires* *(University of São Paulo)*
AD-335	Microbial diversity in immobilized biofilm from packed bed anaerobic bioreactor for biogas production ***V.N. Hubenov***, *G.D. Stoyancheva, M.D. Kaleva, L.V. Kabaivanova* *(Bulgarian Academy of Sciences)*
AD-337	Advanced anaerobic digestion yields higher biogas generation & higher throughput at Tarnow WWTP, Poland *A.M. Niedzielska, J. Mukawa, J. Kosciukiewicz,* ***A. Sahu*** *(Cambi Group AS)*

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AD-341	Upcycling AD by-products to single-cell proteins: Which process alternatives? ***F. Di Benedetto***, *S. Cantera, R. Muñoz, A. Turolla, E. Ficara* *(Politecnico di Milano)*
AD-344	Increasing CH_4 productivity in anaerobic digesters by addition of CO_2 – The use of stable isotope techniques to identify the mechanisms ***D. Polag***, *F. Muller, K. Koch, M. Lebuhn, M. Weigoldt, F. Keppler* *(Heidelberg University)*
AD-350	Towards an integrated model for AnMBR systems ***V. Sandoval-García***, *M.V. Ruano, Á. Robles* *(Universitat de València)*
AD-351	New decision support system for biogas and electricity forecast in wastewater treatment plants *G. Martins,* ***M.S. Duarte***, *P. Oliveira, A. Dias, F. Marcondes, M.A. Pereira, P. Novais* *(University of Minho)*
AD-354	Anaerobic digestion of sewage sludge by using novel two-stage bioreactor for maximizing biomethane, system stability and synergy development ***M. Ali***, *J. De Vrieze, V. Lobanov* *(Gent University)*
AD-357	Evaluation of the relationship between voltage and microbial yield in a bioelectrochemical reactor for optimization of methane production ***V. Ahmadi***, *N. Aryal* *(University of Southeastern Norway)*
AD-360	Insights on the modeling of agricultural anaerobic digestion plants at full-scale ***T. Segura***, *P. Zanoni, C. Lucet-Berille, U. Brémond, R. Escudié, J.P. Steyer* *(Université de Montpellier)*

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AD-361	Modelling the influence of mobile genetic elements and microbial communities on resistomes in manure anaerobic digestion ***D.F. Orozco***, *N. Cicek* *(University of Manitoba)*
AD-374	Enhancing valorization potential of digestate through nitrogen reduction via aeration and hydrodynamic cavitation: A process optimization approach ***J.K. Nayak***, *V.V. Ranade* *(University of Limerick)*
AD-375	Anaerobic codigestion of flotator sludge and activated sludge from the poultry slaughtering and processing industry *K.C. Fagnani,* ***S.D. Gomes***, *E. Rodio, G.F. De Souza, D.C. Zenatti, R. Sequinel* *(Western Paraná State University)*
AD-376	Innovative process for the valorization of the organic fraction of municipal solid waste through the production of biohydrogen via lactate-driven dark fermentation *C. Martínez1, R. Muñoz, P. Huerta, M.T. Simorte, I. Sanz,* ***O. García-Depraect*** *(University of Valladolid)*
AD-380	Bio-synergistic valorisation of residual forage biomass: Butyric acid and biogas production from de-proteinated biomass ***P. Pooja***, *C. Nzeteu, V. O'flaherty, O. McAuliffe* *(University of Galway)*
AD-382	Fate of mobilized colistin resistance genes with increasing concentration of last resort antibiotic in anaerobic membrane bioreactors ***H. Golwala***, *M. Saldana, A.L. Smith* *(University of Southern California)*
AD-383	Methane yield database *S. Kolbl Repinc, B. Murovec,* ***B. Stres*** *(University of Ljubljana)*

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AD-384	Microplastics in anaerobic sludge digestion following pancreatin enzyme disintegration ***E.N. Guzel***, *F.D. Sanin* *(Middle East Technical University)*
AD-388	Kinetics of nanaerobic bacteria in micro-aerated anaerobic digestion ***K.T.M. Ho***, *P.H.H. Lee* *(Imperial College London)*
AD-391	Influence of anaerobic digestion on ibuprofen, diclofenac, carbamazepine, caffeine and atenolol removal ***E.W. Nogueira***, *M.N. de Araujo, C. Comparato, E.G.F. de Rezende, A. Ogura, G. Grosseli, P.S. Fadini, M. Zaiat* *(University of São Paulo)*
AD-393	Unravelling anaerobic ethanol metabolic pathways: Insights into operational modes and powdered activated carbon ***B. Du***, *Y. Wang, G. Wu* *(University of Galway)*
AD-399	Codigestion of microalgae biomass and vinasse in two-stage anaerobic reactors: Performance and microbial dynamics *A.A.D. Pinheiro, E.M. Silva, D.C.P. De Oliveira,* ***B.S. Magnus****, F. Motteran, M.T. Kato, L. Florencio, W.R.M. Leite* *(Federal University of Pernambuco)*
AD-400	Scientific advancements in psychrophilic anaerobic digestion: Biochar's role from laboratory to household implementation *J. Jaimes-Estévez, J. Martí-Herrero, H. Escalante,* ***L. Castro*** *(Universidad Industrial de Santander)*
AD-401	Naphthalene inhibition on methanogenesis productivity depending on mixed substrate ratio ***Y.J. Lim***, *Y.A. Lee, G. Ortiz, H.W. Kim* *(Jeonbuk National University)*

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AD-402	Effect of perfluorooctane sulfonate (PFOS) on methane production of anaerobic co-digestion ***H.I. Lee***, *Y.A. Lee, G. Ortiz, J.Y. Nam, H.W. Kim* *(Jeonbuk National University)*
AD-407	Semi-continuous co-digestion of a lignocellulosic waste corncob with digestate: Effect of pretreatment *T.C. Caglar,* ***T.H. Erguder*** *(Middle East Technical University)*
AD-408	Sustainable reduction of the carbon footprint in Tumaco through the production of biogas from organic waste *V. Osorio-Gómez,* ***L.S. Cadavid-Rodríguez****, A.A. Cano-Londoño* *(Universidad Nacional de Colombia Sede Palmira)*
AD-413	Methane emissions from biogas upgrading plants *L. Knoll,* ***J. Matlach*** *(DBFZ Deutsches Biomasseforschungszentrum GmbH)*
AD-417	Presence and fate of micropollutants during anaerobic digestion ***E.K. Sakinmaz****, D.F. Sanin* *(Middle East Technical University)*
AD-422	Development of an extended two-step process model for simulation of dynamic biogas production in agricultural anaerobic digestion plants ***M. Winkler****, S. Weinrich* *(DBFZ Deutsches Biomasseforschungszentrum GmbH)*
AD-424	In situ biomethanation enhances anaerobic digestion biodegradation capacities ***M. Mahieux****, L. Braga Nan, C. Richard, Q. Aemig, J.P. Delgenès, E. Trably, R. Escudié* *(ENGIE)*

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AD-427	Biochemical methane potential (BMP) of anaerobic co-digestion of sugarcane-livestock waste ***A.B.S. Aguiar***, *M.P.C. Volpi, G. Mockaits, R.P. Rodriguez, B.S. Moraes* *(University of Campinas)*
AD-433	Fouling behaviour/control of free-living microorganisms in anaerobic membrane bioreactors ***Z. Zhou***, *Y. Yao, F. Meng* *(Southwest University)*
AD-439	Cheese whey pilot scale fermentation for VFA production; the key role of pH and HRT *E.R. Cal, L. Besga, T.F. Arévalo,* ***E. Aymerich*** *(Universidad de Navarra)*
AD-440	Application of a high-rate reactor for biogas production from the integration of sugarcane-livestock waste ***A.B.S. Aguiar***, *R.P. Rodriguez, B. De Souza Moraes* *(University of Campinas)*
AD-441	Enhancing anaerobic biodegradation of bio-based compostable bags with domestic food waste through pretreatment integration ***S. Angelini***, *A. Gallipoli, A. Gianico, D. Montecchio, P. Cerruti, M.L. Di Lorenzo, G. Scarinzi, G. Santagata, C.M. Braguglia* *(Water Research Institute, National Research Council (CNR))*
AD-448	Unveiling the myths behind the biochar role in anaerobic digestion ***G. Vayena***, *P. Ghofrani-Isfahani, A. Ziomas, I. Angelidaki* *(Technical University of Denmark)*
AD-458	Anaerobic acidogenesis of a lignocellulosic feedstock: Just limited by the hydrolysis step? ***E.J. Páez***, *A. Serrano, J. Purswani, Á.T. Reyes, F.G. Fermoso* *(University of Granada)*

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AD-464	Fermentation and methanization of cacao pod husks *F. de Jesús Morgado-León, **S. Gonzalez-Martinez*** *(Universidad Nacional Autónoma de México)*
AD-465	Two-phase mixture evaluation of a UASB Reactor for treating domestic wastewater using CFD *J.I. Troian, **L.L. Beal*** *(University of Caxias do Sul)*
AD-469	Optimization of biogas production from solid tuna waste through thermal pretreatment *A.R. Montes, N.B. Penabad, C. Kennes, **M.C. Veiga*** *(University of A Coruña)*
AD-478	Hyperthermophilic anaerobic digestion of lignocellulosic biomass for enhanced fiber degradation and biogas production ***M.P. Kozera**, A.J. Ward, K. Bester, H.B. Møller* *(Aarhus University)*
AD-485	FISH-TAMB guided microbes isolations and syntrophic insights in anaerobic microbiome ***G. Giangeri**, S. Campanaro, I. Angelidaki* *(Technical University of Denmark)*
AD-487	Fish waste as the main substrate for enhance biofilm plug-flow reactor performance ***R. Wahid**, J. Walter, E. Govasmark* *(Antec Biogas AS.)*
AD-488	Biological removal of nitrogen, sulfur, and organic matter: A comparative perspective ***L. Guerrero**, C. Huiliñir, A. Barahona* *(Universidad Técnica Federico Santa María)*

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AD-489	Behavior and kinetic evaluation of an anaerobic filter operating with urban wastewater at room temperature ***L. Guerrero***, *A. Barahona* *(Universidad Técnica Federico Santa María)*
AD-491	Identification of key microorganisms responsible for low-thermal pre-treatment of food waste for methane fermentation ***F. Gamon***, *H. Byliński, M. Szopińska, A. Łuczkiewicz, S.F. Książek* *(Gdansk University of Technology)*
AD-495	Flow cytometry to identify methanogenic communities in different anaerobic digestion ecosystems ***J.W.L. Van Landuyt***, *L. Depaz, N. Boon, J. De Vrieze* *(Universiteit Gent)*
AD-499	Nanotechnology boost production of clean energy via nanoparticles addition in anaerobic digestion ***J.C. De Castro***, *E.M. Resende, I.N. Taveira, F. De Avila Abreu, A. Enrich-Prast* *(Universidade Federal do Rio de Janeiro)*
AD-500	Influence of oxidation-reduction potential on polyhydroxyalkanoate production from winery effluents ***H.C. Lavida***, *V. Montiel, G. Buitrón* *(National Autonomous University of Mexico)*
AD-504	Ultrasonication pre-treatment as a tool to boost COD solubilization and biogas production in anaerobic digestion ***M. Biasiolo***, *F. Mazzolini, C. Giotto, C. Cavinato* *(Ca' Foscari-University of Venice)*
AD-505	Anaerobic vs. aerobic wastewater treatment: A comprehensive comparison of pharmaceutical contaminant removal ***M.N. de Araujo***, *G.M. Grosseli, C.N. Comparato, E.W. Nogueira, E.G.F. De Rezende, L.T. Fuess, M. Zaiat, P.S. Fadini* *(University of São Paulo)*

POSTER SESSION (Hall: Çamlıca)

AD-508	Macroalgae valorization into volatile fatty acids: Influence of pH and organic loading rate ***J.C. Cardoso***, *G. Eibes, M. Carballa* *(University of Santiago de Compostela)*
AD-509	Valuable compounds in anaerobic digestate from a semi-continuous reactor utilizing olive mill solid wastes ***J.C. Cardoso***, *G.R. Gutiérrez, F.G. Fermoso* *(Universidad Pablo de Olavide)*
AD-510	Enhancing biogas production through swine manure and poultry litter co-digestion *D.C. Tapparo, S.P. Neto, B. Venturin, C.E. Hollas, R.L.R. Steinmetz,* ***A. Kunz*** *(Embrapa Suínos e Aves)*
AD-512	Valorisation of dairy waste for the volatile fatty acid production ***A.C.V. Montoya***, *A. Bartle, C. Nzeteu, S. O'connor, V. O'flaherty* *(University of Galway)*
AD-516	Assessing the biogas potential of various industrial wastewaters: A study on BMP tests and microbial community structure *M.E. Lee, J. Shin, J.M. Triolo, Y. Choi, J. Cha, H. Park, J. Chung, C. Lee,* ***S.G. Shin*** *(Gyeongsang National University)*
AD-518	Forging green energy and valuable metals in anaerobic digestion: A dynamic methanogen/sulfate-reducer dance *P.H. Zadeh, G. Collins, F. Abram,* ***F.G. Fermoso*** *(Instituto de la Grasa-CSIC)*
AD-519	Interrelation of EPS and metal content in a UASB under cobalt continue dose *E. Caroca, R. Buzier, S. Simon, G. Guibaud, S. Zahedi,* ***F.G. Fermoso*** *(Instituto de la Grasa-CSIC)*

POSTER SESSION (Hall: Çamlıca)

AD-524	Anaerobic dynamic membrane bioreactors for high-strenght domestic wastewaters treatment under high fluxes ***A.L.M. Brito***, *W.S. Lopes, A.L.F. De Brito, A.C.S. Muniz* *(University of Paraiba State)*
AD-525	Effect of furfural on biomethane production from xylose *S.C. Araújo, L.F. Alcântara, E.M. Silva, S.T. Veras, J.C. Rodrigues Júnior, M.T. Kato,* ***L. Florencio*** *(Federal University of Pernambuco)*
AD-527	Anaerobic digestion of swine manure improved with oat husk derived biochar in UASB digester ***J.P. Díaz***, *F. Gutierrez, C. Huiliñir, L. Hernández* *(Universidad de Santiago de Chile)*
AD-534	A new UASB reactor design + AeMBR for sewage treatment. *M. Fernández, D.F. Marin, E. Lara, F. Rogalla,* ***Z. Arbib*** *(Aqualia)*
AD-537	NPHarvest – Economic recovery technology for nutrients in manure and digestate ***J.U. Kaljunen*** *(Aalto University)*
AD-539	GC-IMS ability to analyse target and non-target compounds of relevance to anaerobic digestion and biorefineries ***A.P.G. De Oliveira***, *A. Henley, A. Iannetelli, T. Patterson, J. Reed, S. Esteves* *(University of South Wales)*
AD-542	Activated carbon: A promising packing material for effective siloxanes biodegradation from biogas *C. Pascual, D. Antolín, S. Cantera, R. Muñoz,* ***R. Lebrero*** *(University of Valladolid)*

POSTER SESSION (Hall: Çamlıca)

AD-545	Evaluating the energy potential and presence of metals, pathogens and antibiotic resistance genes in Andalusian agro-industrial by-products *J.M Espinosa, **C. Martín**, M.L Sanchez, V.M Ramos, F.G. Fermoso, S. Zahedi* *(Spanish National Research Council)*
AD-546	Micropollutants and energy potential in different industrial exploitation of pigs in Andalusian (Southern Spain) ***C. Martín**, J.M Espinosa, M. Pintado, V. Ramos, F.G. Fermoso, S. Zahedi* *(Spanish National Research Council)*
AD-550	Evaluating the effect of feedstock and electrodes' pretreatments on bioelectrochemically improved anaerobic digestion process ***M.G. Montolio**, D. Molognoni, P. Bosch-Jimenez, M. Espejo, K. Herkendell, G. Bouteau, G. Karakachian, E.B. Camps* *(Leitat Technological Center)*
AD-552	Effect of synthetic melanoidins on the short-chain volatile acids and solvents production in dark fermentation *C.N. Comparato, M.N. de Araujo, **M. Damianovic**, A. Silva* *(University of São Paulo)*
AD-553	Dual role of citric acid: Enhancing CO_2 conversion to CH_4 and influencing zero-valent iron reactivity ***D. Constantinou**, I. Vyrides* *(Cyprus University of Technology)*
AD-556	Assessing different packing materials to achieve high-efficiency biological methanation in trickle-bed reactors ***A.D. Chatzis**, M. Gaspari, K. Kontogiannopoulos, D. Sanguineti, G. Zampieri, L. Treu, S. Campanaro, A. Zouboulis, P. Kougias* *(Aristotle University of Thessaloniki)*
AD-557	Bio-hydrogen production from winery wastewater: Influence of the temperature, pH, and substrate-inoculum ratio ***Y. Lauzurique**, M. Medina, J. Pagés-Díaz* *(Universidad de Santiago de Chile)*

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AD-559	Evaluation of the anaerobic digestion of winery wastewater: Effect of fly ash in anaerobic sequencing batch reactor ***Y. Lauzurique***, *A. Meza, C. Huiliñir, R. Salazar, G. Vargas- Morales* *(Universidad de Santiago de Chile)*
AD-560	Kinetic assessment of mercury chloride inhibition in anaerobic biomass for micropollutant sorption experiments ***E.G.F. De Rezende***, *M.N. Araujo, T.V.R. Soeira, G.H.D. De Oliveira, M. Zaiat, R. Ribeiro* *(University of São Paulo)*
AD-561	Comparative analysis of wastewater-based and lab-defined growth mediums for operation of hydrogenotrophic methanogenic reactors *W.R.M. Leite,* ***B.S. Magnus****, T. Gehring, R. Rad, M. Lubken, L. Florencio, U.P. Apfel, M. Wichern* *(Federal University of Pernambuco)*
AD-564	Biomethane production from sugarcane vinasse in São Paulo state: An energetic and environmental perspective *R.C. Rogeri,* ***M.N. Araújo****, L.C. Grangeiro, L.T. Fuess* *(University of São Paulo)*
AD-567	The dual effects of micro-aeration anaerobic digestion (MAAD) in enhancing sulfide suppression and methane production of saline waste activated sludge ***R. Zhang***, *Z. Wang, L.Y.L. Ho, A.M. Wibowo, T.Y.C. Lam, N.J.D. Graham, P.H. Lee, G.Y.A. Tan* *(City University of Hong Kong)*
AD-568	Dry anaerobic digestion of high solid organic wastes: Effect of feedstock composition on percolate dynamics ***N.E. Chukwuekezie***, *S. Wagland, P. Andre, T. Ribeiro, Y.B. Fernández* *(Cranfield University)*
AD-571	Microbial community composition and assembly in anaerobic co-digestion of food waste *S. Smith,* ***F. de los Reyes III*** *(North Carolina State University)*

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AD-577	A novel photo-anaerobic bioprocess mediated by purple phototrophic bacteria ***M. Pezzuto***, *R. Lo Coco, D. Bolzonella, N. Frison* *(University of Verona)*
AD-580	Methane production via anaerobic digestion assisted with Fe_3O_4 supported on granular activated carbon ***L.H. Alvarez***, *M.A. Armenta, M. Orrantia, V. Burboa-Charis, D. Serrano, E. Meza* *(Instituto Tecnológico de Sonora)*
AD-582	Exploring hydraulic and organic overload effects in a xylose-fed SBR ***J. Iglesias-Riobó***, *M. Mauricio-Iglesias, M. Carballa* *(Universidade de Santiago de Compostela)*
AD-589	The single and combined effect of anaerobic digestate and chemical fertilizer on maize production and soil health *C. Nikolaidou, M. Mola, S. Papakostas, V.G. Aschonitis, I. Milonas, N. Monokrousos,* ***P.G. Kougias*** *(Soil and Water Resources Institute)*
AD-593	Association of advanced oxidative processes and biological anaerobic processes for the treatment of a synthetic textile effluent *B. Bernardino, M. Zaiat, R. de Brito,* ***B.F. Vieira***, *E.B. Azevedo* *(University of São Paulo)*
AD-594	Impact of undissociated acids on microbial maintenance in anaerobic fermentation systems: A bioenergetic description ***J. Rodríguez R.***, *M. Patón, T. Allegue* *(Khalifa University)*
AD-600	Feasibility of two-phase anaerobic digestion with glycerol fermentation to enhance pharmaceuticals biodegradation in wastewater treatment plants ***R.B. Carneiro***, *E.W. Nogueira, G.M. Gomes, M. Zaiat, Á.J.S. Neto* *(University of São Paulo)*

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AD-606	Harnessing microbial power: Fully automated bioelectrochemical system for methane production ***B. Oden***, *F.E. Kutlar, A. Ghaderikia, B. Evren, Y.D. Yilmazel* *(Middle East Technical University)*
AD-611	The influence of inoculum source on the digestibility of dairy industry wastewater ***B. Cicekalan***, *S. Shitreh, B. Cavdar, A. Yuksekdag, S. Anacak, M. Tug, A. Musluoğlu, H. Guven, I. Koyuncu, M.E. Ersahin, H. Ozgun* *(Istanbul Technical University)*
AD-613	Methane and hydrogen production with bioelectrochemical anaerobic digestion using stainless steel mesh cathode *F.E. Kutlar,* ***Y.D. Yilmazel*** *(Middle East Technical University)*
AD-615	Prevalence of antimicrobial resistance among Nordic biogas plants ***L. Šafarič***, *G.B. Kraychete, S.S. Yekta, M. Martí, O. Magnusson, G. Carraro, T.M. Anacleto, H.R. Oliveira, A. Björn, R.C. Picão, A.Enrich-Prast* *(Linköping University)*
AD-617	Olive mill solid waste valorisation: Natural textile dye and biogas production ***F. Passos***, *S. Correa, M. Riba-Moliner, I. Ferrer* *(Universitat Politècnica de Catalunya·BarcelonaTech)*
AD-619	Effect of thermal hydrolysis on anaerobic digestion of various municipal and industrial organic waste streams ***A. Azizi***, *E. Koupaie* *(Queen's University)*
AD-624	Microwave pre-treatment successfully unlocks the biogas value of dairy industry sludges ***C. Nzeteu***, *S. O'connor, A. Villa, A. Bartle, V. O'flaherty* *(University of Galway)*

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AD-626	Simultaneous biogas and biofertilizer production via codigestion of aquaculture waste and food waste ***C. Wang*** *(National University of Singapore)*
AD-628	Acid whey chain elongation using anaerobic dynamic membrane bioreactor and continuous liquid-liquid extraction and in-situ membrane separation technologies ***D. Kitt**, X. Zhang, S. Shrestha, D. Speer, A. Tuteja, L. Raskin* *(University of Michigan)*
AD-629	Renewable natural gas production via biomethanation in a membrane biofilm reactor ***H. Nielsen**, T. Lippert, B. Wang, Y. Lin, L. Raskin, K. Zhu, G. Wells* *(Northwestern University)*
AD-631	Evaluation of alkalinity and temperature decreases in an anammox reactor treating anaerobically pre-treated sewage, and impact of heterotrophic denitrifiers in the stability of the process *A.E. Shibata, P.Y. Takeda, G.L. Giglio,* ***M.H.R.Z. Damianovic*** *(University of São Paulo)*
AD-645	Quantifying the heating potential of methanotrophs for application within decentralised anaerobic wastewater treatment technologies ***T. Herzyk**, T. Gómez-Borraz, R. Gonzalez-Cabaleiro, W.T. Sloan* *(University of Glasgow)*
AD-651	Producing butyrate at high selectivity and titre from lactate-rich streams in a thermophilic process ***A. Regueira**, M. Sakarika, A. Bosmans, D. Benson, R. Ganigué* *(Universidade de Santiago de Compostela)*
AD-653	Microbiota involved in the anaerobic digestion of kraft pulp mill biosludge pre-treated with thermal hydrolysis ***C. Callejas**, N. Goycochea, I. López, L. Borzacconi* *(Universidad de la República)*

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AD-655	Implementation of industrial biorefinery fed by "certified" sewage sludge, agri-food waste and OFMSW *E. Blumenthal, **J.G. Camejo**, N. Frison, T. Amati, A. Foglia, A.L. Eusebi, F. Fatone* *(Università Politecnica delle Marche)*
AD-657	Organic matter removal in anaerobic digestion of landfill leachate, agroindustrial and municipal wastewaters ***L.G.Z. Gotardo**, G.H. Pedroso, L.G. Marques, J.T. Gotardo, S.D. Gomes* *(Western Paraná State University)*
AD-658	Artificial intelligence-aided meta-research on hot topics and future trends in anaerobic digestion ***A. Elsayed**, M.S. Zaghloul, E. Elbeshbishy* *(Toronto Metropolitan University)*
AD-666	Enhancement of biogas yield by anaerobic co-digestion of landfill leachate and various wastewaters *G.H. Pedroso, L.G. Marques, LG.Z. Gotardo, **J.T. Gotardo**, S.D. Gomes* *(Western Paraná State University)*
AD-667	CO inhibitory effects on glucose acidogenic fermentation and aceticlastic methanognesis ***P. Postacchini**, A. Grimalt-Alemany, P. Ghofrani-Isfahani, L. Menin, F. Patuzzi, M. Baratieri, I. Angelidaki* *(Free University of Bolzano)*
AD-672	Co-digestion of glycerol with domestic sewage enhances nonylphenol ethoxylate removal and methane production in expanded granular sludge bed reactor *E.L. Volpato, **H.S. Dornelles**, E. Silva, M.B.A. Varesche* *(University of São Paulo)*
AD-675	Valorization of poultry farm wastes through anaerobic digestion *G. Zinola, A. Martínez, V. Takata, A. Del Pino, G. Arrarte, Y. Figueroa, C. Stoletniy, J. Posada, P. Zunino, A. Umpierrez, **C. Etchebehere*** *(Biological Research Institute Clemente Estable)*

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AD-679	Anaerobic treatment of soapstock splitting wastewater under high sulfate/COD ratio ***S. Sertgumec***, *M. Altinbas* *(Istanbul Technical University)*
AD-684	Maximizing polyhydroxyalkanoates production from mixed volatile fatty acids and acetate in urban biorefineries ***A. Ríos-Mejía***, *A. Prats, J.P. Gallardo-Mejías, Á. Robles, M.V. Ruano, L. Borrás* *(Universitat de València)*
AD-685	Investigating PFAS accumulation in anaerobic biosolids via targeted and non-targeted characterization ***C. Sawaya***, *B.F. Costa, A.L. Smith* *(University of Southern California)*
AD-688	Piloting AnMBR for resource recovery from decentralized systems and sewage mining *N. Morales, M. Elvira, R. Serna-García, P. Sanchis-Perucho, J.R. Vázquez-Padín, F. Rogalla, A. Bouzas, A. Seco,* ***Z. Arbib*** *(Aqualia)*
AD-689	Energy balance of municipal wastewater treatment plant sludge treatment - systematic benchmarking approach and lessons learnt *O. Beneš, R. Rosenbergová, P. Chudoba, M. Srb, P. Sýkora, J. Rosický, P. Válek,* ***P. Jeníček*** *(Institute of Chemical Technology Prague)*
AD-691	Exploring the anaerobic bioconversion of food waste and sludge: The pivotal role of trace elements *A. Gallipoli,* ***F. Angelini***, *S. Angelini, A. Gianico, D. Montecchio, B. Tonanzi, C.M. Braguglia* *(Water Research Institute, CNR-IRSA)*
AD-695	Effect of redox mediator on azo dye decolorization in a sequential acidogenic-aerobic granular sludge system *P.T. Barbosa, A.B. Dos Santos, ME.R. Da Silva,* ***P.I.M Firmino*** *(Federal University of Ceará)*

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AD-696	Biohydrogen production from co-digestion of fermented cassava wastewater and glycerol *V. Vaz, C.L. Andreani, T.M. Silva, E.S. Lui, E. Rodio, F. Granja,* ***S.D. Gomes*** *(State University of West Paraná)*
AD-698	Effluent safety of anaerobic dynamic membrane bioreactors (AnDMBRs): Intracellular and extracellular antibiotic resistance gene profiles ***L. Ramadan****, M. Harb* *(New Mexico Tech)*
AD-701	Impact of substrate choice on electroactive biofilm growth and functional characteristics ***C. Sauceda****, A.L. Smith* *(University of Southern California)*
AD-703	Bioaugmentation with lyophilized inoculum to boost biomethanation under high ammonia levels ***I.A. Fotidis****, Y. Yan, D. Fu* *(Ionian University)*
AD-705	Bioaugmentation with immobilised inocula enhanced with biochar: A long-term solution to ammonia problem in continuous biogas reactors *I.A. Fotidis,* ***Y. Yan****, D. Fu* *(Southeast University)*
AD-709	Effects of cyanobacteria biomass pretreatment on biomethane production and anaerobic microbial community ***Y. Yan****, I. Fotidis, D.Fu* *(Southeast University)*
AD-710	Improvement of methane production using an electrooxidation system as pre-treatment and granular activated carbon impregned with Fe *V.A. Burboa Charis,* ***L.H. Álvarez-Valencia****, M.A. Armenta-Gutiérrez, D. Serrano-Palacios, E.R. Meza-Escalante, C. García-Gómez* *(Instituto Tecnológico de Sonora)*

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AD-716	Bioelectrochemical hydrogen production using a continuous-flow microbial electrolysis cell from livestock wastewater and food waste *H.J. Kim, **H.W. Kim**, E. Jwa, J.Y. Nam* *(Jeonbuk National University)*
AD-721	Analysis of energy efficiency in hydrogen fermentation of thermally hydrolyzed food waste ***J. Kim**, J.Y. Kim* *(Seoul National University)*
AD-728	Nutrient recovery via hybrid microalgae cultivation of digestate from acidogenic fermentation of heterogeneous waste streams ***L. Garrote**, D. Hidalgo, F. Infante* *(CARTIF Technology Centre)*
AD-730	Microbiome physiology response chip: Cavitation significantly increased microbiome and chemical reactions in WWTP sludge ***M. Ošlak**, M. Blagojević, J. Gostiša, S. Kolbl Repinc, B. Murovec, B. Stres* *(University of Ljubljana)*
AD-733	Machine learning-based prediction of methane production from lignocellulosic wastes *C. Song, Y. Jin, G. Liu, **C. Chen*** *(Beijing University of Chemical Technology)*
AD-739	The rise of anaerobic digestion for the management of organic fraction of municipal solid waste in Türkiye *A. Musluoglu, S.S. Ovez, O.A. Arikan, R.K. Dereli, K.E. Macin, **K. Ozcelik**, M. Waqas* *(Istanbul Technical University)*