

Symposium Programme

WEDNESDAY, 10.09.2025		
08.00 - 09.00	Registration	
	Anadolu Hall	
09.00 - 09.40	Opening Ceremony	
09.40 - 10.00	Keynote Speaker: Prof. Maria Reis	
10.00 - 10.20	Keynote Speaker: Prof. Michihiko Ike	
10.20 - 10.45	Coffee break	
	Session I-A Anadolu Hall Chairs: Taku Fujiwara Işık Kabdaşlı	Session I-B Bosphorus Hall-A Chairs: Michihiko Ike Rüya Taşlı
10.50 - 11.00	Anaerobic-microaerophilic granular sludge system for ammonia retention, phosphorus recovery, and improved settleability <i>Kotaro Kitamura, Jingyu Duan, Teppei Nitta, Megumi Kuroiwa, Shohei Riya, Taku Fujiwara, Tomoyuki Hori, Akihiko Terada</i>	Enhanced lactic acid production through cavitation: influence of substrate loading, pretreatment time, and microbial diversity <i>Aisha Khan Khanzada, Xianbao Xu, Ewa Zaborowska, Jacek Makinia</i>
11.00 - 11.10	Meet venom found in the leachate wastewater treatment plant: macro to micro <i>Didem Güven, Beste Kaya, Dilşad Soylu, Goksin Ozyildiz, Bünyamin Karagöz, Emine Çokgör, Fatih Çoker, Mehmet Gençosmanoğulları, Fatih Peker, Güçlü Insel</i>	Experimental and modeling study in an agro-industry considering by-product utilization for sustainable wastewater management <i>Cigdem Yangin-Gomec, Busem Urediler, Seferhan Yilmaz, Ozlem Karahan Ozgun</i>
11.10 - 11.20	Phosphorus removal potential of swine wastewater activated sludge treatment effluent by crystallization <i>Miyoko Waki, Tomoko Yasuda, Yasuyuki Fukumoto</i>	Valorisation of seafood and dairy waste into high-value bioproducts through circular biorefineries <i>Salman Nisar, Carla Maggetti, Massimiliano Sgroi, Anna Laura Eusebi, Francesco Fatone</i>
11.20 - 11.30	Balancing nitrogen removal and N ₂ O emissions: continuous vs. intermittent aeration strategy <i>Weronika Borowska, Olga Zajac, Monika Zubrowska-Sudol</i>	Co-culture valorization of fermented agro-waste <i>Simge Sertgümeç, Elaheh Mohammadigharagoz, Mehmet Sadık Akça, Ece Polat, Elif Demirkan, Mahmut Altınbaş</i>
11.30 - 11.40	Recovery of microalgal-bacterial consortia in cultivation system using fluidized carriers for wastewater treatment <i>Ashikur Sarker, Yugo Takabe, Yoshikuni Hino, Taro Horino, Motoharu Noguchi</i>	Hydrothermal humification for converting olive pomace to artificial humic acids <i>Mona Ghaslani, Giovanna Cappai, Gianluigi Farru, Nader Marzban</i>
11.40 - 11.50	Performance of nitrifying biofilms for ammonia removal in shrimp aquaculture <i>Papitchaya Sriethep, Piyaporn Khunrak, Sorawit Powtongsook</i>	The impact of electrolytes on anaerobic digestion-microbial electrolysis cell (ad-mec) systems treating cattle manure <i>Berkan Oden, Yasemin Dilsad Yilmazel</i>
11.50 - 12.00	Pilot-scale cultivation of macroalga ulva meridionalis using treated sewage effluent: Growth characteristics and nutrient recovery <i>Lorenzo Victor Totanes, Youhei Nomura, Masanori Hiraoka, Mitsunobu Nomura, Taira Hidaka, Taku Fujiwara</i>	Upcycling agro-industrial waste into bio-based chemicals: Indigenous bacteria-driven volatile fatty acids production from cassava <i>Dennapa Sengmee, Benjaphon Suraraksa, Pawinee Chairasert</i>
12.00 - 12.10	Analyzing bacterial abundance and microbial diversity across constructed wetlands and urban landscapes <i>Marvin John Uy, Miguel Enrico Robles, Yugyeong Oh, Md Tashdedul Haque, Leehyung Kim</i>	Treatment of shipyard wastewater with adsorbents and design (selection) of the bag filter <i>Özgül Taspınar, D. Bülent Çift, Mustafa Can Bozkurt, Ahmet Alparslan Kuzucu, Volkan Uslan</i>
12.10 - 12.20	Discussion	
12.20 - 13.50	Lunch	

WEDNESDAY, 10.09.2025

Anadolu Hall

13.50 - 14.00 Gold Sponsor Presentation: AON Construction

14.00 - 14.20 Keynote Speaker: Prof. Dionissios Mantzavinos

	Session II-A Anadolu Hall Chairs: Dionissios Mantzavinos Idil Arslan Alaton	Session II-B Bosphorus Hall-A Chairs: Akihiko Terada İsmail Koyuncu
14.30 - 14.40	Comparative study of UV/H ₂ O ₂ degradation and ion exchange recovery for MEA wastewater treatment <u>Hung-Yee Shu, Ming-Chin Chang, Chen-Tai Huang</u>	Non-sterile cultivation of <i>Chromochloris zofingiensis</i> using refrigerated secondary-treated wastewater <u>Satoshi Akao, Yohei Matsumoto, Hideaki Nagare</u>
14.40 - 14.50	Applications and implications of the color parameter in textile industry wastewater treatment: A review <u>Işık Kabdaşlı, Idil Arslan-Alaton</u>	Production of volatile fatty acids as platform value-added products from food processing residues <u>Isaac Owusu-Agyeman, Margherita Bechi, Zeynep Cetecioglu</u>
14.50 - 15.00	Occurrence, environmental risks, and control measures of multiclass antibiotics in aquaculture water of Bangladesh <u>Umma Salma, Anwar Hossain, Md. Shafiujjaman, Yuri Nishimura, Masahiro Tokumura, Rumi Tanoue, Tatsuya Kunisue, Kozo Watanabe, Mohammad Raknuzzaman, Kazushi Noro, Takashi Amagai, Masakazu Makino</u>	An approach to dominant culture of the microalga <i>Haematococcus lacustris</i> for treatment of hydroponic effluent and value creation <u>Hideaki Nagare, Chiharu Ishikawa, Takanori Masuda, Tan Nhut Huynh, Satoshi Akao, Yugo Takabe</u>
15.00 - 15.10	Economic analysis of highly saline pickle brine waste into polyhydroxyalkanoate production by mixed microbial culture <u>Gülsüm Emel Zengin, Emine Cokgor, Nevin Yagci, Hakan Dulkadiroğlu, Goksin Ozyildiz, Didem Güven, Güçlü Insel</u>	Smart control methods for industrial wastewater heat recovery in Zambian food processing <u>Madhu Krishna Murali, Eleanor Mancusi-Ungaro, Aonghus McNabola</u>
15.10 - 15.20	Microbial inactivation using TiO ₂ /Cu fabricated sheets for sustainable water reuse in irrigation system <u>Sovannlaksmy Sorn, Chiren Matsumoto, Shuta Nakagawa, Akihiko Chikamatsu, Masao Ito, Youhei Nomura, Taku Fujiwara, Shuji Fukahori, Masuru Ihara</u>	Establishment of a hybrid electrolysis method for phosphorus precipitation and sludge thickening <u>Yugo Takabe, Kotaro Ida</u>
15.20 - 15.30	Valorisation of vinasse to single cell protein via two-stage acidogenic and aerobic fermentations <u>Hatice Taspinar Demir, U. Cem Derman, Mustafa Turker</u>	Effect of hydrochar and pyrochar on chain elongation process in a novel yeast-bacteria microbiome <u>Xianbao Xu, Y. Ma, X. Li, Jacek Mąkinia</u>
15.30 - 15.40	Investigating anaerobic degradation of deproteinized natural rubber wastewater enhanced by sodium dodecyl sulfate and magnetite <u>Duc Minh Tran, Takahiro Watari, Thu Huong Nguyen, Phuong Thao Tran, Hong Dao Nguyen Pham, Masashi Hatamoto, Lan Huong Nguyen, Takashi Yamaguchi</u>	Enhancing hydrogen and vivianite recovery from waste activated sludge via electro-fermentation assisted by iron anode <u>Zhihong Liu, Zhengtong Guo, Dengfei Li, Xiuping Yue, Aijuan Zhou</u>
15.40 - 15.50	Phosphorous recovery from source segregated human urine by vivianite precipitation <u>Işık Kabdaşlı, Nergis Dilsizoglu Akyol, Tiziana Andreoli, Goksin Ozyildiz, Alessio Siciliano</u>	Valorization of second cheese whey for lactic acid production via mixed microbial culture fermentation <u>Fabiano Asunis, Luca Attene, Giorgia De Gioannis, Aldo Muntoni</u>
15.50 - 16.00	Discussion	Discussion
16.00 - 16.40	Coffee break	

WEDNESDAY, 10.09.2025		
Anadolu Hall		
16.40 - 16.50	Silver Sponsor Presentation: METAWATER Co., Ltd.	
	Session III-A Anadolu Hall Chairs: Francesco Fatone Nevin Yağcı	Session III-B Bosphorus Hall-A Chairs: Aijuan Zhou H. Güçlü İnel
17.00 - 17.10	Modified rice husk biochar for sustainable nitrogen removal from wastewater: Application evaluation and regional feasibility <i>Jiayuan Ji, Yuichiro Kanematsu, Masanori Takemoto, Raquel Simancas, Toru Wakihara, Yasunori Kikuchi</i>	GasAbate treatment reduces gaseous emissions and retains the biogas and fertiliser potential of stored pig and cattle manures <i>Dermot Hughes, Stephen Nolan, Camilla Thorn, Michael McDonagh, Ruairi Friel, W O'Neill, Jason Chin, John McGrath, Paul Williams, Vincent O'Flaherty</i>
17.10 - 17.20	Two-stage anaerobic digestion process of orange processing waste "pastazzo": Hydrogen & methane production and microbial community <i>Silvia Rosa, Giuseppe Lembo, Luca Ruggiero, Antonella Signorini, Eleonora De Santis, Elio Fantini, Loretta Daddiego, Loredana Lopez, Antonella Marone</i>	Optimization of <i>Chlorella vulgaris</i> and <i>Bacillus</i> sp. co-culture for enhanced algal biomass production <i>Gamze Ceylan-Perver, Elaheh Mohammadigharagoz, Simge Sertgumec, Sinan Yilmaz, Duygu Mutlu, Mehmet Sadik Akca, Ece Polat, Elif Demirkan, Mahmut Altinbas</i>
17.20 - 17.30	Full-scale study on high-rate low temperature anaerobic digestion of agro-food wastewater <i>Y.C. Liu, L. M. Paulo, V. O'Flaherty</i>	Nature-based solutions for urban heat island mitigation and carbon storage in urban environments <i>Md Tashdedul Haque, Lee -Hyung Kim</i>
17.30 - 17.40	Recycling dam sediment into soil for antioxidant-enhanced plants <i>Tsukasa Ito, Yuta Oike, Gaku Ishikura</i>	Life cycle assessment of barley as cattle feed: Waste management strategies <i>Enes Tok, Burcin Atilgan Turkmen, Fatos Germirli Babuna, Gulen Iskender</i>
17.40 - 17.50	Evaluation of biodegradable chitosan--alginate hydrogels as a controlled-release fertilizer for sustainable wheat cultivation <i>Muhammed Furkan Aras, Selin Taskin, Sayed Ali Naziri Mehrabani, Mehmet Isik, Mehmet Emin Pasaoglu, Hilal Gubbuk, Berra Buyukucar, Ismail Koyuncu</i>	Transition toward quaternary treatments: innovative living membrane bioreactor for microplastic removal <i>Marika Carnesi, Antonio Mineo, Vincenzo Naddeo, Antonio Palumbo Piccionello, Carla Rizzo, Giorgio Mannina</i>
17.50 - 18.00	Start-up of a biphasic expanded granular sludge bed reactors for pig slurry treatment and biogas production: A pilot scale study <i>Antonio J. Aragón-Barroso, Manuel Gallardo-Altamirano, Antonio Castellano-Hinojosa, Alejandro González-Martínez, Jesús González-López, Francisco Osorio</i>	A study on reduction of non-carbon dioxide greenhouse gas emissions from pig farm by installing anaerobic digester <i>Hyojin Cho, Chang Soo Kim, Nak Seung Sung, Seong Hoon Hong, Dahyun Ha, Seong Wook Oa</i>
18.00 - 18.10	Discussion	Discussion
19.00 - 22.00	WELCOME COCKTAIL Presidential Suite, Divan İstanbul	

THURSDAY, 11.09.2025

08.00 - 09.00 Registration

	Session IV-A Anadolu Hall Chairs: Mahmut Altınbaş Tatianne Ferreira de Oliveira	Session IV-B Bosphorus Hall-A Chairs: Satoshi Nakai Banu Örmeci
09.00 - 09.10	Effect of SRT on microaerobic activated sludge process for ammonia retention from actual fermentation industrial wastewater <i>Xinyi Zhou, Taku Fujiwara, Akihiko Terada, Tomoyuki Hori, Taira Hidaka, Fumitake Nishimura, Tomohiro Nakanishi</i>	Circular reuse of all components of an agro-industrial effluent <u>Boudewijn Meesschaert</u>
09.10 - 09.20	Modeling nickel impact on enriched nitrifying microbial culture using Microbial Transition State (MTS) and activated sludge model <u>Tugce Katipoglu-Yazan, Dilşad Soylu, Güçlü Insel</u>	From agroindustrial residues to hydrochar: characterization and energy properties <u>Gianluigi Farru, Mona Ghaslani, Giovanna Cappai</u>
09.20 - 09.30	Uncertainty analysis in the measurement of nitrification kinetics in urban wastewater treatment plants <i>Berker Leblebici, Güçlü Insel, Didem Güven, Tuğçe Katipoğlu Yazan, Emine Çokgör</i>	Effect of magnesium concentration on <i>Dunaliella salina</i> growth using human urine as a medium <i>Yasemin Akdag, Hazal Gulhan, Cigdem Demirer, Mustafa Evren Ersahin, Hale Ozgun, Huseyin Guven</i>
09.30 - 09.40	Cultivation of <i>Aurantiochytrium</i> sp. using pickle seasoning liquid wastes and its repeated utilization for production of polyunsat <i>Anh Thi Nhat Tran, Radita Putradhitama Novanda, Satoshi Nakai, Toshikazu Suenaga, Wataru Nishijima, Takehiko Gotoh</i>	Recovery and characterization of cellulose nanofibers from primary sludge: A case study at Kayseri municipal wastewater treatment <u>Yusuf Ersan, Ayse Gul</u>
09.40 - 09.50	Ammonium ion removal in segregated fluidized beds: Effects of flow rate and number of segregated layers <u>Gulay Arslan Cene, Elif Soyer</u>	Bioelectrochemical recovery of saline and nitrate-contaminated groundwater within a circular economy approach <u>Seyedmehdi Hosseini, Sebastia Puig, Alba Ceballos-Escalera, Alessandra Carucci, Stefano Milia</u>
09.50 - 10.00	Algal growth in ion-exchange pretreated human urine: Effects of different coagulants on harvesting efficiency and protein content <i>Yasemin Akdag, Buket Hatice Engel, Busranur Ozdere, Gamze Ceylan-Perver, Mehmet Sadik Akca, Mahmut Altinbas, Ismail Koyuncu, Huseyin Guven, Mustafa Evren Ersahin, Hale Ozgun</i>	Synthesis of cobalt aluminate and usage as catalyst in pet recycle <u>Ece Tunca, Enis Gül, Sefa Kemal Mandal, Fatma Tugçe Senberber Dumanli, Emek Derun</u>
10.00 - 10.10	Co-cultivation of four microalgal species with activated sludge for municipal wastewater treatment and biomass production <u>Aulia Maulana, Kazuhiro Mori, Tadashi Toyama</u>	Energy potential and environmental assessment on application of pig and cattle manure as solid fuels <u>Eun Seong Lee, Seonghoon Hong, Dahyeon Ha, Nakseung Sung, Junsoo Ha, Seong Wook Oa</u>
10.10 - 10.20	Discussion	Discussion
10.20 - 10.50	Coffee break	

THURSDAY, 11.09.2025

Anadolu Hall

10.50 - 11.00 Silver Sponsor Presentation – Kubota Corporation

11.00 - 11.20 Keynote Speaker: Prof. Francesco Fatone

	Session V-A Anadolu Hall Chairs: Satoshi Akao Çiğdem Eskicioğlu	Session V-B Bosphorus Hall-A Chairs: Monika Żubrowska-Sudoł Hung-Yee Shu
11.30 - 11.40	Effect of Fenton's reagent on the degradation and biogas production potential of reactive 4 dye wastewater <i>Idil Arslan-Alaton, Elif Zeynep Deneri, Cigdem Yangin-Gomec</i>	A zero-waste strategy for effluent remediation and beneficiation in small wineries <i>Pamela Welz, Gareth Holtman, Rainer Haldenwang, Walusungu Kaira</i>
11.40 - 11.50	Oyster shell utilization for optimization of aquaponics system with local waste reduction <i>Daisuke Tanikawa, Chisa Ishihara</i>	Energy assessment of a novel biorefinery concept to recover biofuel and biomethane from food waste <i>Ewa Zaborowska, Hubert Byliński, Sylwia Fudala-Książek</i>
11.50 - 12.00	Degradation of diclofenac from aqueous solution by electro-oxidation using different anode materials <i>Narmin Garazade, Hilal İlhan, Gülay Arslan Çene, Emine Can Güven, Senem Yazici Guvenc, Gamze Varank</i>	Response of microbial interactions in hybrid biofilm system with low organic loading to micropollutant removal <i>Gulsum Emel Zengin, Roya Dadkhah, Dilsad Soylu, Ilke Pala-Ozkok, Didem Güven, Goksin Ozyildiz, Berkay Uçan, Güçlü İnel, Emine Çokgör</i>
12.00 - 12.10	Conventional activated sludge with ultrafiltration vs living membrane bioreactor systems: A comprehensive comparison <i>Dilsad Soylu, Antonio Mineo, Marika Carnesi, Vincenzo Naddeo, Jie Jiang, Giorgio Mannina</i>	A water circularity index for agro-industries products <i>Geneve Farabegoli, Anabela Rebelo</i>
12.10 - 12.20	Selective nickel recovery from PCBs through biomineralization induced by biogranules <i>Rabia Konaklı, Kadir Şekercioğlu, Murat Pekcan, Yusuf Çağatay Erşan</i>	Removal of ammonia/ammonium ions by ozone in bromide-containing artificial seawater for recirculating aquaculture systems (RAS) <i>Tadao Mizuno, Aoi Miyake, Yuu Sumita, Tetsumi Ochi</i>
12.20 - 12.30	Anaerobic treatment of slaughterhouse wastewater for pollution reduction and biogas production in Rwanda <i>Valens Habimana, Jean Chrisostome Ufitinema, Antoine Nsabimana, Gunaratna Kuttuva Rajarao</i>	Microalgae-based nitrogen removal from swine wastewater treatment <i>Pattaraporn Kunapongkiti, Papitchaya Srithep</i>
12.30 - 12.40	Advanced quantification of methane emissions from an agricultural biogas plant using inverse dispersion modeling <i>Clément Romand, Timothe Depelchin, Matthieu Trombetti, Caroline Bouchet</i>	Unlocking bioenergy pathways from crop residue and manure in Türkiye to support circularity within the water-energy-food nexus <i>Ece Demir, Emre Alp</i>
12.40 - 12.50	Discussion	Discussion
12.50 - 14.20	Lunch	

THURSDAY, 11.09.2025

Anadolu Hall

14.20 - 14.30 Silver Sponsor Presentation – Kanadevia Corporation

14.30 - 14.50 Keynote Speaker: Prof. Giorgio Mannina

	Session VI-A Anadolu Hall Chairs: Maria Reis Giorgio Mannina	Session VI-B Bosphorus Hall-A Chairs: Seong-Wook Oa Emine Çokgör
15.00 - 15.10	Adsorption of ammonium and phosphorus by biochar produced by co-pyrolysis of solid digestate and egg shell <i>Shohei Riya, Kouta Sakihara, Manoj Kumar Jena, Chihiro Fushimi, Akihiko Terada</i>	Seasonal variation of microplastics in wastewater treatment plant sludges and implications for agricultural use <i>Nimitha Choran, Banu Ormeci</i>
15.10 - 15.20	Concept of a cascade hydroponic system contributing to nitrogen circulation and circular economy in greenhouse horticulture <i>Taku Fujiwara, Masaru Ihara, Youhei Nomura, Shuji Fukahori, Daisuke Kozaki, Yuki Sago, Daisuke Yasutake, Ayumu Onda, Masanori Hiraoka, Hideaki Nagare, Satoshi Akao</i>	Stepwise temperature shift from mesophilic to thermotolerant enhances microbial adaptation and biogas production <i>Tsuyoshi Imai, Gede Adi Wiguna Sudiartha</i>
15.20 - 15.30	Assessment of an innovative water resource recovery plant configuration in accordance with the biorefinery concept <i>Yagmur Nazdar Kacmaz, Canberk Diler, Ilkim Gürel, Yesim Askin, Tevhide Erusta, Serife Korpe, Öykü Yesilbas, Yaren Ergezen, Ayca Ozyaz, Seferhan Yilmaz, Özlem Karahan Özgün</i>	Application of artificial intelligence to sludge dewatering for the optimization of flocculant dosage <i>Pengzhe SU, Junta Takahashi, Santisak Kitjanukit, Yasuko Shinjo, Kazuaki Shimamura</i>
15.30 - 15.40	Development of a GIS tool for assessing nitrate contamination risk in groundwater: Gediz basin case study <i>Cihançir Aydoğan, İrfan Yolcubal, Şebnem Aynur Koyunluoğlu, Yusuf Kurucu, Bihter Çolak Esetlili, Tolga Esetlili, Yusuf Gürbüz, Orhan Sezgin, İpek Özenç, Pınar Hışır</i>	Thermochemical processes as an alternative to conventional sludge management practices: A life cycle assessment study <i>Matia Mainardis, F. Gievers, A. Catenacci, A. Loewen, D. Goi, M. Nelles</i>
15.40 - 15.50	Innovative biofilter design with OPEFB-Activated carbon for sustainable tofu wastewater treatment <i>Sri Suhartini, Alya Vinurila, Nimas Mayang Sabrina Sunyoto, Andhika Putra Agus Pratama, Novita Ainur Rohma, Ika Atsari Dewi, Widya Fatriasari, Young Hoon Jung, Lynsey Melville</i>	Searching for a method of sewage sludge pretreatment to improve the efficiency of the anaerobic digestion process <i>Katarzyna Sytek-Szmeichel, Justyna Walczak, Monika Żubrowska-Sudoł</i>
15.50 - 16.00	Agricultural irrigation water and struvite recovery from AnMF-OMBR and UASB MF-OMBR systems <i>Sümeyye Hasanoglu, Dilara Akyildiz, Ilknur Yalcin Guney, Zeren Beril Gonder, Gulsum Yilmaz, Ilda Vergili, Coskun Aydinler, Yasemin Kaya</i>	Hydrothermal liquefaction of biological nutrient removal sludge: Bio-crude oil production and by-product valorization <i>Farid Alizad Oghynous, Cigdem Eskicioglu</i>
16.00 - 16.10	Kinetic evaluation of acute and chronic impact of bisphenols on activated sludge systems using respirometry <i>Mathias Sandvik, Ilke Pala-Ozkok</i>	Investigation on behavioral adaptation of methanogens in the thermotolerant range around 45°C <i>Riho Takahashi, Tsuyoshi Imai</i>
16.10 - 16.20	Estimation of the pollutant load from livestock runoff in arid region <i>Monica Perez-Sane, Jaime Lara-Borrero</i>	A sustainable approach to the treatment of textile reverse osmosis concentrate using the photo-Fenton process <i>Gamze Canbakal, Oyku Nur Ersoz, Gulay Arslan Cene, Senem Yazici Guven, Emine Can Guven, Gamze Varank</i>
16.20 - 16.30	Discussion	Discussion
16.30 - 17.00	Coffee break	

THURSDAY, 11.09.2025		
	Session VII-A Anadolu Hall Chairs: Sri Suhartini Hideaki Nagare	Session VII-B Bosphorus Hall-A Chairs: Pamela Welz Seval Sözen
17.00 - 17.10	How can anaerobic digestion of agricultural wastes contribute to mitigating renewable energy variability? <u>Taira Hidaka</u> , Masato Nakamura, Shuh Matsuda, Fumiko Oritate, Mutsumi Fujita	Enhanced carboxylic acids conversion from waste activated sludge fermentation via sulfate reduction-mediated syntrophic consortia <u>Aijuan Zhou</u> , Yaxin Fan, Hongyan Liu, Xiuping Yue
17.10 - 17.20	Impact of sludge age on nitrification and carbon removal in a membrane bioreactor treating textile wastewater Tulay Yilmaz, <u>Emine Cokgor</u> , Emir Kasim Demir, Gulfem Asik, Senem Teksoy Basaran, Seval Sozen, Erkan Sahinkaya	Sustainable biosynthesis of caproate from waste activated sludge via electro-fermentation <u>Dengfei Li</u> , Shuanglan Cheng, Zhihong Liu, Aijuan Zhou, Xiuping Yue
17.20 - 17.30	A combined fate and effect study to explore the impact of wastewater derived human pharmaceuticals on soil gas emissions <u>Narmin Garazade</u> , John Nightingale, Andrea Garduño Jiménez, David Ashley, Santiago Clerici, Paul Kay, Laura Carter	Harnessing surplus renewable energy: Co-digestion and hydrogen injection in the BSM2 model <u>Saba Aghdam Tabar</u> , Usman Saifder, Sarah Cotterill, Recep Kaan Dereli
17.30 - 17.40	Techno-economic analysis of an integrated ABE fermentation and microalgae technology for valorisation of cheese whey <u>Michael Hananta Utomo</u> , Recep Kaan Dereli, Ronald Halim	Harvesting microalgae <i>Chlorella sorokiniana</i> by dual-polymer flocculation with chitosan and sodium polyacrylate Akiho Yonezawa, <u>Ryosuke Homma</u> , Tao Wang, Tetsuya Yamamoto, Masaki Takaoka, Kazuyuki Oshita, Hideki Kanda
17.40 - 17.50	Full-scale cultivation of macroalga <i>Ulva prolifera</i> using hydroponic effluent <u>Youhei Nomura</u> , Masanori Hiraoka, Taku Fujiwara	Improving swine manure treatment performance with cow manure biochar: Focus on nitrification, denitrification, and composting <u>Jeon Jae Ock</u> , Hyo Jin Cho, Changsoo Kim, Jungwoo Son, Seong Wook Oa
17.50 - 18.00	Acute impact of SMX, TET, and ERY on enriched nitrifying system kinetics: A comparison with mixed microbial culture <u>Tugce Katipoglu-Yazan</u> , Emine Ubay-Cokgor, Derin Orhon	Water quality impacts of hydroponic farm effluent in receiving water bodies <u>Eun Seong Lee</u> , Changsoo Kim, Jungwoo Son, Junsoo Ha, Seong Wook Oa
18.00 - 18.10	Discussion	Discussion
19.00 - 00.00	GALA DINNER Lokanta by Divan, Divan İstanbul	

FRIDAY, 12.09.2025	
08.00 - 09.00	Registration
	Session VIII Anadolu Hall Chairs: İlke Pala Özkök - Takashi Yamaguchi
09.00 - 09.10	Challenges in developing industrial water management strategies for metropolises with agro-industries: Case of İstanbul <i>Fatos Germirli Babuna, Ayse Gül Tanik, Omer Lutfi Sen, Gokhan Cuceloglu, Guclu Insel, Turker Turken, Elif Zeynep Deneri, Serra Selin Ovez, Cansu Delibas, Erbil Buyukbay, Izzet Ozturk</i>
09.10 - 09.20	Utilizing agro-waste for sustainable construction materials and retrofitting strategies <i>Firdevs Sezer, Burcin Atilgan Turkmen, Fatos Germirli Babuna</i>
09.20 - 09.30	Novel circular utilization of agricultural waste: From rice straw and livestock manure to single cell protein feed <i>Tianxiang Xu, Yui Kazuta, Megumi Kuroiwa, Shohei Riya, Akihiko Terada</i>
09.30 - 09.40	Impact of pig farming on the groundwater environment from long-term observation data and its improvement <i>Tomijiro Kubota, Hidemi Wakikado, Ichiro Uezono, Masato Katsuda, Shoichi Tanaka</i>
09.40 - 09.50	Life cycle assessment of fresh and dried apricot production <i>Seda Hatun Uluzlu, Burçin Atilgan Türkmen, Fatoş Germirli Babuna</i>
09.50 - 10.00	Enhanced biomass production by co-culturing <i>Chlamydomonas reinhardtii</i> and growth-promoting bacteria <i>Yuge Bai, Kazuhiro Mori, Yasuhiro Tanaka, Tadashi Toyama</i>
10.00 - 10.10	Enhancing methane recovery from recirculating aquaculture system sludge under salinity stress using biochar and zeolite <i>Abdullah Bugra Senol, Linn Solli, Wietske Annechien Stel, John Morken, Nazli Pelin Kocatürk Schumacher</i>
10.10 - 10.20	Environmental sustainability of artichoke canning with nutritional perspective <i>Hulya Sahin Akkurt, Bilge Bas, Gulen Iskender, Fatos Germirli Babuna</i>
10.20 - 10.30	Advanced biofiltration for odor and VOC removal in solid waste facilities: Media innovation and field results <i>Mahdi Jemel, Clément Romand, Arantxa Bomboi Rodríguez</i>
10.30 - 10.40	Peroxi-coagulation process as an effective treatment for textile industry wastewater: optimization, biodegradability and cost <i>Beyza Balıkcıoğlu, İrem Ozen, Senem Yazıcı Guvenc, Emine Can Guven, Gamze Varank</i>
10.40 - 10.50	Discussion
10.50 - 11.30	Coffee break Session IX Anadolu Hall Chairs: Fatoş Germirli Babuna - Vincent O'Flaherty
11.30 - 11.40	Anaerobic digestion of oil palm empty fruit bunches: Effect of biological pre-treatment <i>Sri Suhartini, Novita Ainur Rohma, Irnia Nurika, Efri Mardawati, Kasbawati Kasbawati, Lynsey Melville, Syazwani Idrus</i>
11.40 - 11.50	Evaluation of capacity utilization for agricultural waste biogas plants in Türkiye <i>Ahmet Musluoglu, Serra Selin Övez, Kadir Özçelik, Elif Maçın, Muhammad Waqas, Recep Kaan Dereli, Osman Atilla Arkan</i>
11.50 - 12.00	Transforming Oil Palm Empty Fruit Bunches (OPEFBs) into sustainable membranes for microbial fuel cells <i>Sri Suhartini, Andhika Putra Agus Pratama, Muhammad Alim Perdana, Novita Ainur Rohma, Ioannis Ieropoulos, Nur Hidayat, Widya Fatriasari, Young Hoon Jung, Ika Atsari Dewi, Lynsey Melville</i>
12.00 - 12.10	Anaerobic digestion of lignocellulosic waste: Effects of pre-treatment on performance, microbial dynamics and economic viability <i>İrem Güven Beyaz, Ömer Uzun, Bahar İnce, Canberk Kazancı, Orhan İnce</i>
12.10 - 12.20	Comparative analysis of anaerobic sludge digestion in conventional and high-rate activated sludge systems <i>Ali Tamer Cetinkaya, Goksin Ozyildiz, Nergis Dilsizoglu Akyol, Emine Cokgor, Guclu Insel</i>
12.20 - 12.30	Climate change and emerging pollutant toxicity on <i>Enchytraeus crypticus</i> : Impact of rising temperature and dry soil <i>İrem Öztürk Ufuk, Saadet Nur Coşkun, Ashna Waseem, Emel Topuz</i>
12.30 - 12.40	Role of soil organic matter content in climate change adaptation by regulating terrestrial no emissions after floods <i>Eda Ceylan, Cemile Büyük, İlker Akmirza, Derya Ayral Çınar</i>
12.40 - 12.50	Evaluating the impact of mulching of olive pruning residues on soil properties and yields in olive groves <i>Hiba Abu Tayeh, Aviad Karmazyn, José Grünzweig, Tamir Klein, David Yalin</i>
12.50 - 13.00	Electric field-driven simultaneous nitrification-denitrification: optimization of electron acceptor <i>Mythili Divya M, Young Chae Song, Seong-Wook Oa, Keug-Tae Kim</i>
13.00 - 13.10	Discussion
13.10 - 13.40	Closing Ceremony

Poster Programme

Wednesday, September 10, 2025	POSTER PRESENTATIONS WILL BE HELD BETWEEN 10 - 11 SEPTEMBER 2025, PARALLEL TO ORAL SESSIONS
	Bosphorus Hall-B Poster Presentations - Wednesday, 10.09.2025
	Anaerobic digestion of sludge and agricultural processing residues in small-scale wastewater treatment plants <i>Masato Nakamura, Shibata Hirohiko, Fumiko Oritate, Noriyuki Kamachi</i>
	Enhanced short chain fatty acid production assisted by nitrate photolysis during sludge fermentation <i>Xiuping Yue, Yun Lu, Zhihong Liu, Dengfei Li, Aijuan Zhou</i>
	Applicability of bivalve shells to electrochemical systems for enhancing phosphorus precipitation <i>Tatsuaki Satoh, Yugo Takabe, Fumitake Nishimura</i>
	Exploring polyphenol content in olive leaf waste: Effect of geographical, seasonal, and varietal differences <i>Aina Mir-Cerdà, Raúl García-García, Mercè Granados, Sonia Sentellas, Javier Saurina</i>
	Innovative food packaging: Active films from alginate/cellulose nanofibers with olive leaf NADES extracts <i>Aina Mir-Cerdà, Sonia Sentellas, Javier Saurina, Yeni A. Paredes-Padilla, Sergio Benavides, Miryams Millán-Fritz, Rodrigo Segura, Patricia Castaño, Gustavo Cabrera-Barjas</i>
	Comparative RNA/DNA analysis of the impact of influent microorganisms on MBR-Activated Sludge <i>Hinata Higuchi, S. Terada, S. Nagatsuma, C. Kudou, Takahiro Watari, Takashi Yamaguchi, Masashi Hatamoto</i>
	Distribution of GHG emissions from production to wastewater treatment process of natural rubber products in Vietnam <i>Hong Dao Nguyen Pham, Takahiro Watari, Nhu Nguyet Phan, Minh Duc Tran, Lan Huong Nguyen, Masashi Hatamoto, Kazuaki Syutsubo, Takashi Yamaguchi</i>
	Improvement of sewage sludge fertilizer quality through co-digestion with tofu residue <i>Taketo Togari, Norihisa Matsuura, Taira Hidaka, Ryoko Yamamoto-Ikemoto</i>
	Optimized photocatalytic degradation of Congo Red using ZnO and LaO nanoparticles synthesized with laurel extracts <i>Meriem Zamouche, Sabrina Mechat, Ferial Djemaa, Deneche Lina Loudjeine, Chahinez Kadri, Hichem Tahrouri</i>
	Sustainable recovery of 3-hydroxytyrosol from olive oil waste using flash chromatography <i>Adrià Perez-Amor, Ruben Titos, Monica Reig, Jose L. Cortina, Javier Saurina, Jose L. Beltran, Merce Granados, Sonia Sentellas</i>
	Circular bioeconomy: Recovery of bioactive compounds from hop leaves <i>Pau Lorente, Oscar Nuñez, Merce Granados, Javier Saurina, Sonia Sentellas</i>
	Optimization of bioactive compound extraction from cocoa bean shell using green solvents <i>SK Fahim Tahmid Boni, Sonia Sentellas, Javier Saurina</i>
	A sustainable approach to enhance water reuse in a closed RAS bred with <i>Clarias Gariepinus</i> using a biological DHS system <i>Nur Adlin, Norfariza Ab Wahab, Nurul Fariha Lokman, Ahmad Zaid Arshad, Muhammad Naim Badaruddin, Suhaila Mohd Najib, Samadhi Wandana, Takahiro Watari, Takashi Yamaguchi</i>
	Non extractable phenolic compounds in olive leaves: Assessing hydrolysis methods <i>Paulina Tapia-Quiros, Aina Mir-Cerdà, Mercè Granados, Sonia Sentellas, Javier Saurina</i>
	Agricultural non-point source pollution control using agro-waste-derived biochar and its carbon emission reduction benefit <i>Ya-Zhen Huang, Chihhao Fan</i>
	Nitrogen mineralization modeling of sewage sludge fertilizers with acid detergent soluble organic nitrogen analysis <i>Hirohiko Ihara, Masato Nakamura, Fumiko Oritate, Mutsumi Fujita, Toyohisa Miyamoto, Keita Takahashi, Taira Hidaka</i>
	Utilization of agricultural waste in the development of sustainable bio-composite brake pads: An experimental study on eco-friendly <i>Abdulkadir Unal</i>
	Downflow Hanging Sponge (DHS) reactor with immobilized biochar for complete nitrogen removal in recirculated aquaculture system <i>Samadhi Wandana, Nur Nur, Takahiro Watari, Masashi Hatamoto, Takashi Yamaguchi</i>
	Influence of acid fermentation liquid compositions on PHBV production by waste activated sludge-derived mixed microbial culture <i>Daisuke Inoue, Shunsuke Hirai, Akihiko Sugawara, Yasunao Okamoto, Gen Yoshida, Michihiko Ike</i>
	Potential valorizations of brewery by-products for food packaging materials <i>Buse Sezer, Gurbuz Gunes</i>
	Real-time monitoring and data-driven modeling of greenhouse gas emissions from horticultural soil <i>Morihiro Maeda, Miyu Sazuka, Wataru Shiraishi, Makito Mori, Daisuke Yasutake, Satoshi Akao, Taku Fujiwara</i>
	Application of pumice stone waste as biofilm carrier in MBBR Systems: Impacts on wastewater treatment and color removal in the denim industry <i>Berrak Torusdag, Goksin Ozyildiz, Derin Orhon, Seval Sozen</i>

Thursday, September 11, 2025	Bosporus Hall-B
	Poster Presentations - Thursday, 11.09.2025
	Effective start-up of microaerobic activated sludge process to convert nitrogen components in industrial wastewater to ammonia <i>Kengo Momiuchi, Tomo Aoyagi, Takuma Suzuki, Tomoyuki Hori, Hidehiro Sugiura</i>
	Neutralizer selection and excess sludge utilization in microaerobic activated sludge system to convert wastewater nitrogen to NH_4^+ <i>Tomo Aoyagi, Akihiko Terada, Tomoyuki Hori</i>
	Activated carbons from Baru (Dipteryx Alata Vog) waste impregnated with copper oxide: Application in the post-harvest preservation <i>Hector Valdes, Ana Carolina de Jesus Oliveira, Tatianne Ferreira de Oliveira</i>
	Utilization of pomace waste for sustainable DHA production via unsterile cultivation of <i>Aurantiochytrium</i> sp. L3W <i>Brilian Pamungkas, Gen Sasaki, Satoshi Nakai, Toshikazu Suenaga, Takehiko Gotoh, Wataru Nishijima</i>
	High value-added technologies for biofertilizer derived from dairy manure <i>Anju Urabe, Masahiro Tokumura, Yoshiro Kawashima, Naoyoshi Komuro, Keiji Wakabayashi, Masakazu Makino</i>
	Environmental risk screening of recycled plastics using a quantitative non-targeted analytical approach <i>Masahiro Tokumura, Sota Sakai, Takeshi Enomoto, Kouichi Tatsu, Naohide Shinohara, Masakazu Makino</i>
	Lactic acid and PLA bioplastic production from sustainable substrates by <i>Lactobacillus acidophilus</i> <i>Duygu Mutlu, Seymen Guzelordu, Taha Burhan Olker, Fikret Dogac Gundogdu, Ece Polat, Mahmut Altinbas</i>
	Changes in water quality and greenhouse gas emissions in a pond system for treatment of Palm Oil Mill Effluent (POME) <i>Takashi Onodera, Yoshiyuki Takahashi, Kazuya Nishina, Ryuichi Hirata, Joseph Walli, Frankie Kiew, Guan Wong, Lulie Melling</i>
	Production of polyunsaturated fatty acids by culturing a thraustochytrid using a brown alga <i>Sargassum</i> <i>Miki Hatanaka, Satoshi Nakai, Anh Thi Nhat Tran, Toshikazu Suenaga, Takehiko Gotoh, Wataru Nishijima, Hiromichi Suzuki</i>
	Calorific value of pellets produced from baru (Dipteryx Alata Vog.) waste <i>Tatianne Ferreira De Oliveira, Zamira Abel d de Jesus Maria, Ana Carolina de Jesus Oliveira, Fernando Pereira de Sá</i>
	Dynamics of operational parameters in aerobic biodegradation of Baru (Dipteryx Alata Vog.) waste <i>Flavio Alves Da Silva, Zamira Abel de Jesus Maria, Ana Carolina de Jesus Oliveira, Fernando Pereira de Sá, Tatianne Ferreira de Oliveira</i>
	Environmental burdens of potato cultivation <i>Enes Tok, Burcin Atilgan Turkmen, Fatos Germirli Babuna, Gulen Iskender</i>
	Environmental sustainability of reactive dye containing textile wastewater treatment through peroxide-assisted ozonation <i>Kubra Dogan, Burcin Atilgan Turkmen, Idil Arslan Alaton, Fatos Germirli Babuna</i>
	Modeling biogas production from high-rate activated sludge system treatment sludge <i>Yesim Askin, Tevhide Erusta, Serife Korpe, Ayca Ozyaz, Büsra Yesilyurt, Seferhan Yilmaz, Özlem Karahan Özgün</i>
	From wastewater to value: Phosphorus recovery in the circular economy <i>Yagmur Nazdar Kacmaz, Canberk Diler, Ilkim Gürel, Seferhan Yilmaz, Özlem Karahan Özgün</i>
	PHA production from waste activated sludge using mixed microbial cultures integrated with high-rate activated sludge systems <i>Öykü Yesilbas, Yaren Ergezen, Seferhan Yilmaz, Özlem Karahan Özgün</i>
	Facile preparation of carbon-modified magnetic nanoparticle derived from iron sludge for removal of organic matter in wastewater <i>Huiping Zeng, Dong Li</i>
	As(V) removal by starch-coated magnetite nano-adsorbent based on waste iron sludge <i>Dong Li, Huiping Zeng</i>
	Sustainable biogas production from macrophytes in the era of the green transition <i>Emine Gözde Özbayram, Dilek Özyurt, Latife Köker, Tunahan Özdemir, Reyhan Akçaalan, Meriç Albay</i>
	Innovative approaches to agrofood biowaste digestion for energy recovery maximization <i>Andrea Capodaglio, Brice F. Kana, Arianna Callegari</i>
	Organic load-driven correlations of microbes, elements and chemicals in anaerobic digester revealed by Bayesian network <i>Masahiro Honjo, Tomo Aoyagi, Tomoyuki Hori</i>
	Optimization of the recovery conditions for PNA in a laboratory-scale granular sequencing batch reactor <i>Hussein Al-Hazmi, Xi Lu, Joanna Majtacz, Przemysław Kowal, Jacek Małkinia</i>
	Optimizing partial denitrification–anammox in granular sequencing batch reactors for wastewater nitrogen removal <i>Hussein Al-Hazmi, Joanna Majtacz</i>
	Quantitative assessment of N, P and greenhouse gas emissions in food and water system in Japan <i>Kanami Kogure, Kaito Kitahara, Hideaki Nagare</i>