

1. Emerging Technologies and Processes			
POSTER No.	TITLE	PRESENTING AUTHOR	AFFILIATION
1.1	CFD analysis for membrane distillation optimization for wastewater treatment	Morgan Abily	ICRA
1.2	Activated Sludge Model No.1 Calibration and Data Analysis for a Paper Mill Wastewater Treatment Plant	Hussain Ahmed	Tampere University
1.3	In-situ production of H <sub>2</sub> O <sub>2</sub> to enhance electrochemical advanced oxidation efficiency for treatment of pharmaceutical compounds	Izba Ali	Inopsys
1.4	The status of urine recycling as a niche and pathways for	Abdulhamid Aliahmad	Swedish University of
1.5	Assessing the biodegradability of monoethanolamine for industrial wastewater treatment applications	Tomas Allegue Martinez	Khalifa University
1.6	Pre-enrichment of electrodes with acetoclastic electroactive bacteria and hydrogenotrophic methanogens and external voltage application promotes the performance of anaerobic digestion	Hari Ananda Rao	KAUST
1.7	Photocatalysts for Chemical-free PFOA Degradation – What we know and where we go from here?	Jan Max Arana Juve	Aarhus University
1.8	EPC-EqTech: an innovative turnkey solution to process spent caustic in the Oil&Gas industry	Oscar Arumi Arderiu	CETAQUA
1.9	Cost-effective sorption materials for the removal of pharmaceuticals from aqueous medium	Tomasz Bajda	AGH University of Science and Technology in Krakow
1.10	Activated biochar from rice husk for the removal of micropollutants: Characterization and application in real wastewater	Bernardí Bayarri Ferrer	Universitat de Barcelona
1.11	LIFE Zero Waste Water: from the WWTP to the WRRF treating UWW and bio-waste	Alberto Bouzas	University Of Valencia
1.12	Development of a continuous flow MEC-AD system with autonomous feeding control and performance optimisation.	Kyle Bowman	WASE & University of Westminster
1.13	Natural Clay-Based Materials for the Removal of Antibiotics from Contaminated Water	Monica Brienza	University of Basilicata
1.14	Towards next generation LUCAS® technology for cost-efficient municipal wastewater treatment plants	Michel Caluwé	Waterleau Group NV
1.15	Industrial scale-up, automatization and validation of high-performance multi-stage anaerobic reactor for treatment of wastewater from food and drink SMEs	Jose B. Carbajo	AEMA
1.16	Phase separation in anaerobic fixed-film reactor for wastewater treatment: biomethane production and pharmaceutical compounds removal	Rodrigo Carneiro	Univeristy of Sao Paulo
1.17	Can graphene oxide enhance methane production and pharmaceutical removal under anaerobic digestion?	Oriol Casabella	Catalan Institute for Water Research
1.18	Partially saturated vertical surface flow constructed wetland for emerging contaminants and antibiotic resistance genes removal from wastewater: The effect of bioaugmentation with Trichoderma fungus	Serge Chiron	University of Montpellier
1.19	Treatment of polymer-containing oilfield wastewater by ionizing radiation: demulsification, sterilization and enhancement to oil removal	Libing Chu	Tsinghua University
1.20	Cyanobacteria for heavy metals removal: from pure metal solutions to electroplating industry wastewaters	Matilde Ciani	University of Florence
1.21	Reusability of cyanobacteria-based biosorbents through consecutive adsorption-desorption cycles of bivalent metals	Matilde Ciani	University of Florence
1.22	Pulsed light degradation of pesticides: optimisation & metabolites	François Clavero	Sanodev / Université de
1.23	Simplified design approach supports avenue for selection of complementary P removal mechanisms in return sludge sidestream processes	Kylie Close	The University of Queensland
1.24	Fate of PPCPs within biofilters based on hazelnut shell/sawdust and fed with domestic wastewater	Kennedy Costa da Conceicao	Universidad de Santiago de Chile

1.25	Fabrication of Fouling Resistant and Operationally Stable Nanocomposite Membranes for Refinery Wastewater Treatment	Ngozi Enemuo	University of the Witwatersrand
1.26	Fenton pre-treatment combined with an activated sludge system for carbamazepine removal	Chihhao Fan	National Taiwan University
1.27	Metabolic Modelling of a Designed Bacterial Consortium to Evaluate its Capability for In-situ Removal of Contaminants from Biogas	David Gabriel Buguña	Universitat Autònoma de Barcelona
1.28	Anticancer Drugs Affect the Performance and Microbiome in an Aerobic Granular Sludge System Operated in Sequential Batch Reactor	Manuel Jesús Gallardo Altamirano	University of Granada
1.29	Microbial Fuel Cells for Energy Production and Treatment of Industrial Saline Wastewater: Effect of Hydraulic Retention Time	Manuel Jesús Gallardo Altamirano	University of Granada
1.30	Tertiary treatment of nitrite-containing wastewater in a denitrification filter - preliminary studies	Filip Gamo?	Silesian University of Technology
1.31	Performance, resilience and energetic balance in ElectroStimulated Anaerobic Reactor (ELSAR®) vs. anaerobic fluidized bed reactor	Antonio Giménez Lorang	FCC Aqualia
1.32	Implementing Ozone/Ultrasound for Trimethoprim and Sulfamethoxazole removal and reducing antibiotic resistance in Finnish reject waters.	Ksenija Golovko	Aalto University
1.33	Microalgal photobioreactor systems for urban wastewater treatment and removal of emerging contaminants	FÉLIX GONZALO IBRAHIM	University of Valladolid
1.34	Anaerobic valorisation of process water from waste sludge hydrothermal carbonization: insights into volatile fatty acids and biomethane production	Matteo Grana	Politecnico di Milano
1.35	Low Cost, Zero Chemical and Energy Efficient Municipal Wastewater (Pre-)Treatment with Electrocoagulation-Floatation	Nazia Hassan	Ghent University
1.36	On-site Regeneration of A modified Activated Carbon by Ozone	Chihpin Huang	National Yang Ming Chiao Tung University
1.37	Flotation and Fenton Process Pilot Technology for the treatment of Real Olive Mill Waste Water	Inês Inocêncio	ADVENTECH
1.38	Isolation of acid tolerant bacteria capable of metal adsorption from acid mine drainage without neutralization	Sohei Iwama	Hokkaido university
1.39	Characterization of iron-rich particles assisted anammox granules: Extracellular Polymeric Substance (EPS) tell the story	Sohee Jeong	Chungnam National University
1.40	Granulation characteristics of the high saline anammox bacteria.	Sohee Jeong	Chungnam National University
1.41	Algal-Bacterial Biofilms to Purify Wastewater, Reduce Power Consumption, and Minimize Carbon footprint.	Daniel Johnson	Algaewheel
1.42	Analyzing the impact of salt concentration on the activity of enriched N-damo bacteria biomass	Garrido Juan M.	Universidade de Santiago de Compostela
1.43	Photo-Membrane Reactor (PMR) for Removal of Per- and Polyfluoroalkyl Substances (PFAS)	Allyson Junker	Aarhus University
1.44	Electrochemical degradation of amoxicillin: Operational parameters optimization and degradation mechanism	Bhavana Kanwar	Indian Institute of Technology Bombay
1.45	Investigating nutrient removal capacity of nature-based solutions (NbS) for eutrophic brackish water	Ece Kendir Cakmak	KTH
1.46	Performance of In-house Photocatalytic Membrane on Hormone Removal	Watsa Khongnakorn	Prince of Songkla University
1.47	Functionalized CNTs-coated carbon electrodes to improve desalination battery performance: Comparison with thermally oxidized carbon electrode	SANGGYUN KIM	Pusan National University
1.48	Removal of Organic Dyes Through Polymer Inclusion Membrane Based on Perbenzylated-β-Cyclodextrin	Jakub Lagiewka	Jan Dlugosz University in Czestochowa
1.49	Feammox biofilm formation to enhance ammonium removal from	Eduardo Leiva	Pontificia Universidad Católica de Chile
1.50	Fe- and Zn-biochar mediated carbamazepine removal via	Anita Leovac Macerak	University of Novi Sad,
1.51	WATER QUALITY AND QUANTITY, FRESH WATER SOURCES SUITABLE FOR CREEK RIDGE INFILTRATION IN THE BRAAKMAN ZUID REGION (NL)	Bart Letterie	HZ University of Applied Sciences
1.52	Use of a packed-bed biofilm reactor to achieve rapid formation of anammox biofilms for high-rate nitrogen removal	Yingyu LI	The University of Hong Kong
1.53	Implementing the use of pure oxygen to expand the Integrated Fixed-film Activated Sludge (IFAS) at the Monteagudo (Navarra) Waste Water Treatment Plant (WWTP)	Andrea Lopez	NILSA

1.54	OPFRs degradation by White Rot Fungi: Screening of degraders and approach to the degradation mechanism	Diana Losantos	Universidad Autónoma de Barcelona
1.55	Removal of paracetamol, amoxicillin and triclosan through hazelnut shell biochar used as support medium in filtration processes	Paula Madariaga	University of Santiago of Chile
1.56	Overview of methodologies for evaluating the energy efficiency of the wastewater treatment plant.	Desara Malluta	University of Genova
1.57	Reduction of high concentrations of ammonium nitrogen on a laboratory scale using the activated sludge method.	Kinga Marek	Wroclaw University of Environmental and Life Sciences
1.58	Simultaneous Removal of Zinc and Tetracycline Using Low Methoxyl Pectin Cross-linked by Calcium and Europium	Javier Martinez Sabando	Centro de Física de Materiales (CSIC-UPV/EHU)
1.59	Investigation of potential synergistic effect between three different UV wavelengths in water photodisinfection	JAVIER MARUGAN	UNIVERSIDAD REY JUAN CARLOS
1.60	Nature-based solutions to reduce antibiotics and antimicrobial resistance in aquatic ecosystems	Víctor Matamoros	IDAEA-CSIC
1.61	Circular Water Management Opportunities for Wineries Using Novel Thermal Process	Václav Miklas	Brno University of Technology
1.62	Lab Scale Study of Wastewater Treatment using Nano-bubble Aeration in the Activated Sludge Process	Mohamed Mohamed	United Arab Emirate University
1.63	Removal of pharmaceutical compounds from food-processing	Nazanin Moradi	IHE-Delft Institute for
1.64	Assessing the feasibility of different membrane technologies for dissolved methane capture from AnMBR effluents	Kristel Moyano	Universitat de Valencia
1.65	The emerging concern of hospital wastewaters: their treatment using aerobic granular sludge technology	Bárbara Muñoz Palazón	Universidad de Granada
1.66	Development and characterization of a new sol-gel coating for anti-scaling properties	Soumaya NOUIGUES	SORBONNE UNIVERSITE
1.67	Characterization of biochar obtained from recovered cellulose and its potential for the removal of pollutants in water	Paula Núñez-Tafalla	University of Luxembourg
1.68	Seasonal changes of waste activated sludge methane potential and its susceptibility to mid-temperature alkaline disintegration	Piotr Oleskowicz-Popiel	Poznan University of Technology
1.69	Impact of Polyethylene terephthalate (PET) degradation products on Mixed Purple Phototrophic Bacteria (PPB) metabolism	Miguel Palhas	NOVA School of Science and Technology - UCIBIO/i4HB
1.70	Valorisation of saline wastewater to produce added-value organic acids of industrial interest	Lidia Paredes	Fundació Universitaria Balmes
1.71	Activated carbon from banana peel: an emerging biobased material for adsorption of diclofenac	SIVCHHENG PHAL	INSA Toulouse
1.72	CFD Modelling of CP in Roto-dynamic RO System at Seawater Salinity During Turbulent Cross Flow.	NITIKESH PRAKASH	Indian Institute of Technology, Madras
1.73	Industrial wastewater treatment by integrated processes: coupling Fenton with biological	João Ribeiro	Centre for Environmental and Marine Studies -
1.74	Recovery and valorisation of iron sludge from Fenton processes	João Ribeiro	Centre for Environmental and Marine Studies -
1.75	Upscaling Anaerobic Reactors using Purple Phototrophic Bacteria for low-cost wastewater reuse and resource recovery	Frank Rogalla	Aqualia
1.76	Mechanisms involved in veterinary antibiotics removal by microalgae-bacteria consortia	Elena M. Rojo	University of Valladolid
1.77	Evaluation of a single-chamber continuous-flow bioreactor to treat urban wastewater with aerobic granular sludge	Aurora Rosa Masegosa	University of Granada
1.78	Use of Atmospheric Dissolved Air Flotation (DAF) in Removal of	Ali Rostamiiranagh	Azarbaijan Shahid madani
1.79	Use of wetlands for wastewater treatment in iran	Ali Rostamiiranagh	Azarbaijan Shahid madani
1.80	The fate of microplastics in mesophilic anaerobic digestion combined with ultrafiltration membrane.	Patricia Ruiz Barriga	IIAMA (Universitat Politècnica de València)
1.81	BIODAPH2O – Eco-efficient system for wastewater tertiary treatment and water reuse in the Mediterranean region	Victoria Salvadó	University of Girona
1.82	Specific Hydrogenotrophic Methanogenic Activity test: the role of operating conditions	Anna Santus	Politecnico di Milano
1.83	Study of the key parameters influencing ammonium removal from wastewaters by Fe(III)-mediated anaerobic ammonium oxidation (Feammox) microbial communities.	Jennyfer Serrano	Universidad Mayor
1.84	Metal Biosorption from Wastewater under Acidic Environment	Chikara Takano	Hokkaido University
1.85	Application of MABR to Japanese Municipal Sewage Treatment	Hideharu Tanaka	Sanki Engineering Co.,Ltd
1.86	Evapotranspiration toilet: a safe and sustainable treatment for black water	Adriano Luiz Tonetti	Unicamp

1.87	Prospecting Microbial Consortia for high yield Polyhydroxyalkanoates production	Maria Reis	UCIBIO-i4HB/ FCT NOVA
1.88	Transformation products generated by oxidation of carbamazepine during various wastewater treatment processes – review and modelling	Jeanne TROGNON	Laboratoire de Génie Chimique
1.89	The impact of high and low temperatures on Candidatus Competibacter fed with industrial wastewater	EIRINI TSERTOU	University of Antwerp
1.90	Phosphorus extraction from sewage sludge ashes and subsequent co-precipitation with other nutrients: insight into factors favouring a beneficial recovery	Andrea Turolla	Politecnico di Milano
1.91	Aquafarm: Biological sludge degradation, nutrient removal and greenhouse gas reduction by macroinvertebrates and macrophytes	Tom van der Meer	Wageningen Environmental Research
1.92	Removal of nanomaterials from wastewater by Microbial Fuel cell – Current knowledge and future direction	Divya Vempati	Indian Institute of Technology Delhi
1.93	Microbial-Mediated Biological Treatment of Wastewater Containing Arsenic (III) and Arsenic (V)	Manoj Kumar Verma	Indian Institute of Technology (BHU)
1.94	Innovative solutions to minimize brine discharges in the mining & metallurgy industry	Alejandro Vilar	Cetaqua
1.95	Atmospheric water harvesting – a case study in South Africa	Frans Waanders	North-West University
1.96	Coal derived PAH removal from various water sources using photo catalytic degradation	Frans Waanders	North-West University
1.97	Chemical-free vacuum UV processes for PFAS abatement	Yicheng Wang	Wetsus
1.98	Fenton self-cleaning MOF and MOF-derived porous carbons modified ceramic membrane towards highly efficient for oil/water emulsion separation	Pei Wang	The University of Hong Kong
1.99	BioPhree: Reversible phosphate adsorption for phosphate removal to ultra-low levels and recovery. Demonstrations and perspectives	Wokke Wijdeveld	Wetsus
1.100	Reactor designs to increase photocatalytic degradation of organic trace substances for improved water protection	Julia Wolters	RWTH Aachen University
1.101	Biochar-nano zero-valent iron composite membrane for the degradation of carbamazepine by activation of persulfate	Yongtao Xue	Ku Leuven
1.102	Convergence of bioreduction process and ICT for practical use of	Hanui Yang	Yonsei University
1.103	Development of a new bioreduction process for the treatment of	Hanui Yang	Yonsei University
1.104	Novel ceramic SnO <sub>2</sub> electrocatalytic membrane for advanced wastewater treatment and water reuse	Chao Yang	The university of Hong Kong
1.105	High-Rate Post-treatment of Sewage from Residential Community by the Down-flow Hanging Sponge System	WILASINEE YOOCHATCHAVAN	Kasetsart University
1.106	Microbial-fuel-cell driven intermitted aeration enhanced the removal of organic matter and nitrogenous compounds	Naoko Yoshida	Nagoya Institute of Technology
1.107	Giving four lives to osmotic membranes with innovative recycling processes (Osmo4Lives)	Bianca Zappulla Sabio	Lequia
1.108	Photocatalysis as a Remediation Technology for Wastewaters Containing Organic Dye Compounds	Elnaz Zehtab Lotfi	East azarbaijan Shahid madani university
1.109	Periodate activation with copper oxide nanomaterials for the degradation of ciprofloxacin-A new insight into the efficiency and mechanisms	Xi Zhang	KU Leuven
1.110	In-situ Fabrication of Titanium Suboxide-Laser Induced Graphene Composites with Enhanced Electrochemical Activity for Environmental Remediation	Ashish Kumar	Indian Institute of Technology Bombay
1.111	The new Hot Bubble Pilot Plant (HBPP) for water sterilisation and desalination.	Adrian Garrido Sanchis	University of New South Wales
<b>2. Decentralized Strategies</b>			
<b>POSTER No.</b>	<b>TITLE</b>	<b>PRESENTING AUTHOR</b>	<b>AFFILIATION</b>
2.1	Light greywater quality consistency: challenge for their treatment and reuse. Study case: Colombia	Jessica Burgos Arias	Universidad Industrial de Santander
2.2	Organic micropollutants in a Euro-Mediterranean resort: occurrence in the water cycle	Gianluigi Buttiglieri	ICRA
2.3	Earthworms influence on macroporosity and biofilm in constructed wetland	Siriane Cazaux	Laboratoire Écologie Fonctionnelle et Environnement
2.4	Microalgal photobioreactor systems for urban wastewater treatment and removal of emerging contaminants	FÉLIX GONZALO IBRAHIM	University of Valladolid

2.5	Identifying substrates for greywater treatment in a novel green wall system based on trickling filters	Maximilian Grau	Zurich University of Applied Sciences
2.6	Fuzzy Risk Assessment for Hydraulic Detention Time in UASB Reactors	DAYANE LIMA	Universidade de Aveiro
2.7	Evaluation of a low-tech, passively solar-driven pilot plant for nutrients recovery from source-separated urine on household level	Laila Lüthi	Zurich University of Applied Science
2.8	Multidimensional assessment of a Nature-based Solution for decentralized small-scale greywater treatment in Costa Rica	Maria Perez Rubi	Leibniz Universität Hannover(LUH)
2.9	Anaerobic digestion effluent treatment in constructed wetlands for agricultural reuse	Pau Porras i Socias	Universidade do Porto
2.10	Comparison of engineered, natural and hybrid wastewater treatment schemes for the removal of nanoparticles from wastewater	Radhika	Indian Institute of Technology, Delhi
2.11	Performance of Multi-module Biochar Filter for Onsite Wastewater Treatment System	Makoto Shigei	Uppsala University
2.12	Potential of integrated membrane and TiO <sub>2</sub> -based advanced oxidation processes for greywater reclamation	Haruka Takeuchi	Kyoto University
2.13	Nutrients and characterization of greywater from rural households	Adriano Luiz Tonetti	Unicamp
2.14	Adsorption of cadmium on raw and base treated Bolivian natural zeolite	Lisbania Velarde Arnez	Luleå University of Technology
2.15	Surfactant elimination in horizontal and vertical-flow constructed wetlands for greywater treatment	Karen Midori Takahashi	Federal University of Mato Grosso do Sul
<b>3. Resource recovery and safe reuse</b>			
<b>POSTER No.</b>	<b>TITLE</b>	<b>PRESENTING AUTHOR</b>	<b>AFFILIATION</b>
3.1	Seasonal accumulation of pharmaceuticals in soils from a full-scale horticultural system irrigated with reclaimed water.	Lucas Alonso	ICRA
3.2	Effective radiation transfer as a major element for the optimized design and operation of purple phototrophic bacteria photobioreactors	Ali Amini	Politecnico di Milano
3.3	Bioelimination of different arsenic species by microalgae and bacteria grown in wastewater treatment plants	Beatriz Antolín Puebla	Institute of Sustainable Processes
3.4	Protein recovery from algal biomass grown in piggery wastewater using deep eutectic solvents	Beatriz Antolín Puebla	Institute of Sustainable Processes
3.5	Use of Industrial Magnetite in Wastewater Treatment	Yara Arbid	Ecole Nationale Supérieure de Chimie de Rennes
3.6	FlashPhos: The complete thermochemical recycling of sewage sludge	Sander Arnout	InsPyro
3.7	Study of struvite precipitation in a fluidised bed reactor using synthetic supernatant	Sergi Astals Garcia	Universitat de Barcelona
3.8	Integrated Resource Recovery from Aerobic Granular Sludge Plants	Nouran Bahgat	Wetsus/TU Delft
3.9	Design of a decision support system for wastewater sanitation in small population centers in the Besòs-Tordera Consortium	Aldo Barahona	Universidad de Barcelona
3.10	Assessment of the role of the solubilization time in the P-recovery process in the Murcia-Este WWTP	Ramon Barat	Polytechnic University of Valencia
3.11	FORWARD-FACTORY: Integrating forward osmosis and advanced biological reactor for water reuse and resource recovery factory	Gaetan blandin	University of Girona
3.12	Novel concentration process based on membranes for volatile fatty acids concentration (ConcentrA)	Gaetan blandin	University of Girona
3.13	Resource recovery from aerobic granular sludges: Gel-forming biopolymers extraction, fractionation and gelling capacity	Abdo BOU SARKIS	Laboratoire de Biotechnologies Agroalimentaire et Environnementale
3.14	Stabilization of sewage sludge in constructed wetlands for reuse in agriculture	Ana Cano	Universitat Politècnica de Catalunya
3.15	Toluene valorization into PHA by Rhodococcus opacus	Sara Cantera	Valladolid University
3.16	Modelling H <sub>2</sub> conversion by purple bacteria enriched cultures: evaluating kinetics of gas-fed processes to assess feasibility	Gabriel Capson Tojo	INRAE
3.17	Biological Methanation of WWTP biogas with green H <sub>2</sub> for sustainable mobility	Oriol Casal	Cetaqua Centro Tecnológico del Agua
3.18	Nitrogen recovery to produce Smart Fertilisers from wastewater	Oriol Casal	Cetaqua Centro Tecnológico del Agua

3.19	Pharmaceuticals occurrence in water bodies of Catalonia in the last decade, which are the most ubiquitous compounds?	Marc Castaño	ICRA
3.20	Enhancing reactive species exposure in a dielectric barrier discharge plasma reactor through lava rock packing in view of phosphonate-contaminated wastewater treatment and subsequent phosphorous recovery	Changtao Chen	Ghent university
3.21	Analysis of the enrichment in PHA-accumulating bacteria in mixed microbial communities fed with fish-canning waste	David Correa-Galeote	University of Granada
3.22	WATER-MINING Project: La Llagosta Case Study, a flexible fit-for-use wastewater treatment scheme for resource recovery	Teresa de la Torre	Sorigué
3.23	Development of methodologies and tools of risk assessment for wastewater and stormwater reuse	Lucia De Simoni	Polytechnic University of Marche (UNIVPM)
3.24	Degradation and erosion of polymers in alkalised fresh human urine collected in source-separating sanitation systems	Anuron Deka	Swedish University Of Agricultural Sciences
3.25	Drinking Water Treatment Residuals: from waste to a new promising adsorbent of emergent compounds	Rita Dias Santos	CENSE - Center for Environmental and Sustainability Research, School of Science and Technology, NOVA University Lisbon
3.26	Valorisation of the liquid waste of distilled gin production through high rate anaerobic co-digestion and biogas production	Rubén Díez Montero	Universidad de Cantabria
3.27	Enhancing Carbon recovery compromises low N <sub>2</sub> O emissions: example of a new municipal wastewater treatment.	Carlos Domingo Felez	University of Glasgow
3.28	Sustainability assessment framework and circular diagnosis of water treatment plants	Sofía Estévez Rivadulla	University of Santiago de Compostela
3.29	Exploiting the DO Profile for the Mathematical Modelling of a Mixed PHA-accumulating Microbial Community	Serena Falcioni	Universitat Autònoma de Barcelona
3.30	Improvement of activated sludge systems: should we pay more attention to the role of EPS?	Zoé FAU	INRAE
3.31	BIOUP – Biomethane production through the integration of renewable energy surpluses in WWTP	federico ferrari	acciona agua
3.32	Energy recovery from olive mill waste streams	Ivet Ferrer	Universitat Politècnica de Catalunya
3.33	From removal to recovery: opportunities for bioelectrochemical ammonia recovery from wastewater	Mariella Belén Galeano López	Universitat Autònoma de Barcelona
3.34	Effects of direct filtration of wastewater in anaerobic digestion	Jesús GODIFREDO CALVO	IIAMA (Universitat Politècnica De Valencia)
3.35	Simulation of outdoor conditions for the cultivation of microalgae in a small-scale photobioreactor for wastewater treatment	Félix Gonzalo Ibrahim	University of Valladolid
3.36	Polyhydroxyalkanoates production by mixed microbial cultures from fermented cheese whey under high salinity conditions	Matteo Grana	Politecnico di Milano
3.37	New modelling methodology to improve phosphorus recovery in WWTPs	Tamara Guijarro	Depuración de Aguas del Mediterraneo
3.38	Upgrading of biogas produced from anaerobic digestion of sewage sludge through in-situ biological hydrogen methanation in mesophilic CSTR system	Mohamed Hellal	Silesian University of Technology
3.39	Development of copper-substituted Prussian blue analog immobilized ion exchange resins for high-performance ammonium recovery from wastewater	Seongwon Im	Korea institute of civil engineering and building technology
3.40	Effect of enhanced hydrolysis of a lipid-rich wastewater on the acidogenic fermentation	Montserrat Jiménez Urpí	VEnvirotech Biotechnology
3.41	Heavy metals uptake with energy crops biomass depending on soil amendment	Mykola Kharytonov	Dnipro State Agrarian and Economic University
3.42	Is bioaugmentation a successful strategy to manipulate biopolymer production from wastewater?	Kasra Khatami	KTH Royal Institute of Technology
3.43	Fate of pollutants in overloaded Wastewater Stabilization Pond (WSP) system	Szymon Kilian	Wroclaw University of Environmental and Life Sciences
3.44	Effect of extracellular polymeric substances (EPS) content on sludge dewaterability using filter-press	Sujin Lee	Pusan National University
3.45	Temperature effect over the PHA:TAG accumulation ratio with mixed microbial cultures and oily substrates	José Ramón Lorenzo Llarena	Universidade de Santiago de Compostela



3.46	Impact of high-rate activated sludge system on WWTP energy balance: Effect of HRT and dissolved oxygen	Cinta Martín Medrano	USC
3.47	Evaluation of the potential of carbon recovery from sewage sludge plus organic wastes by anaerobic co-fermentation in a region	Miguel Mauricio-Iglesias	Universidade de Santiago de Compostela
3.48	Mechanisms of Hexavalent Chromium Reduction by <i>Rhodococcus qingshengii</i> strain SC26	Alice Melzi	University of Milan
3.49	Vinyl Chloride Biodegradation In Contaminated Aquifer Undergoing Stimulation Treatment	Alice Melzi	University of Milan
3.50	Thermal treatment assessment to improve the phosphorus recovery as struvite from olive mill wastes	Marlene Del Mar Mendoza	IRTA
3.51	Starting points for the management of sewage sludge's digestate for phosphorus recovery in the concept of a circular economy	Vesna Mislej	JP VODOVOD KANALIZACIJA SNAGA d.o.o.
3.52	Gas-permeable membranes for the reduction of ammonia emissions in pig farms: A global approach.	Beatriz Molinuevo Salces	Agricultural Technological Institute of Castilla y León.
3.53	Production of Volatile Fatty Acids and Kinetic Study of the Anaerobic Digestion of Cheese whey	Beatriz Molinuevo Salces	Agricultural Technological Institute of Castilla y León.
3.54	Treatment of pickling waste liquors using a thraustochytrid for removal of organic carbon and nitrogen and simultaneous production of polyunsaturated fatty acids	Satoshi Nakai	Hiroshima University
3.55	Metabolic network reconstruction providing insights into the metabolism relevant for resource recovery in <i>Rhodobacter sphaeroides</i>	Adrian Oehmen	The University of Queensland
3.56	Onsite Sanitation Disinfection: A Modeling Approach for Lime Treatment of Fecal Matter Containing Viruses	Wakana Kaneko	Tohoku University
3.57	Insights on the Agronomic Potential of Structural Extracellular Polymeric Substances (sEPS) from Aerobic Granular Sludge	Benedetta Pagliaccia	University of Florence
3.58	Influence of system geometry and substrate on the removal of linalool and geraniol in zero-liquid discharge unplanted-NBS	Paula Paulo	UFMS
3.59	Reclaimed wastewater reuse impacts: from literature data gaps to integrated risk modelling	Luca Penserini	Politecnico of Milan
3.60	LIFE HIDAQUA: Sustainable water management in high water demanding industries	Queralt Plana	Fundació Eurecat
3.61	Valorizing Methane: Methanotrophs based Biorefinery for Extracellular Biopolymers Production (CH <sub>4</sub> -BIOPOL)	David Primo Catalunya	Institut Català de Recerca de l'Aigua
3.62	Monitoring and thorough behaviour of volatile methylsiloxanes through a wastewater treatment plant	Nuno Ratola	ALICE - LEPABE - Faculty of Engineering of the University of Porto
3.63	Volatile methylsiloxanes (VMSs) in biogas generation in WWTPs – a mass balance	Nuno Ratola	ALICE - LEPABE - Faculty of Engineering of the University of Porto
3.64	Green roofs and green walls for greywater treatment and reuse: a review of design and operational conditions	Anacleto Rizzo	IRIDRA Srl
3.65	Protein and carbohydrate recovery from secondary sludge biomass generated in wastewater treatment plant	Elena M. Rojo	University of Valladolid
3.66	Towards a more sustainable water treatment and reuse through brines valorisation	Adriana Romero	Cetaqua, Water Technology Center
3.67	Proteins: How electrochemistry can drive the food future of Microbial Protein production	Laura Rovira Alsina	LEQUiA / University of Girona
3.68	Low-cost natural by-products: an efficient way to improve emerging contaminants removal in Nature-based Solutions	Daiane Ruwer	CETIM
3.69	Preliminary study of anaerobic digestion of olive oil industry wastewaters in a conical spouted bed digester	Maria J San Jose	University of the Basque Country UPV/EHU
3.70	Dietary exposure and human health risk assessment of wastewater-derived organic contaminants in leafy vegetables irrigated with treated wastewater under real agricultural field conditions	Lúcia Santos	Catalan Institute for Water Research (ICRA)
3.71	Biofiltration of odorous emissions in WWTPs through the reuse of by-products of the integral water cycle	Lidia Saúco Bozic	DAM Aguas
3.72	LIFE REPTES - Renewable bio-hydrogen production technologies from lignocellulosic waste and sewage sludge co-fermentation	Lidia Saúco Bozic	DAM Aguas
3.73	New advanced applications of compost from sewage sludge. Compost-UP! Project	Lidia Saúco Bozic	DAM Aguas

3.74	Micropollutant uptake in lettuce irrigated with UASB-CW reclaimed wastewater in a water scarce area	Sofia Semitsoglou Tsiapou	Institut Català de Recerca de l
3.75	Soil contamination due to reuse of ZnO nanoparticles contaminated wastewater effluent	Radhika	Indian Institute of Technology, Delhi
3.76	Innovative and versatile integrated solution to remove contaminants of emerging concern in water treatment systems	Aina Soler-Jofra	Acciona
3.77	Can Peracetic Acid disinfect wastewater? A Portuguese pilot installation in a WWTP says it can	Diogo Sousa	CENSE - Center for Environmental and Sustainability Research, School of Science and Technology, NOVA University Lisbon
3.78	Enhancing purple phototrophic bacteria granulation by size classification	Samuel Stegman	The University of Queensland
3.79	Evaluation of emerging micropollutants presence in laundry greywater facilities for recycling	Marta Turull	Catalan Institute for Water Research (ICRA)
3.80	Aerobic biodegradability of fat, oil and grease wastes	Carlota Ucha	Universidade de Santiago de Compostela
3.81	Optimization of high rate algal ponds design and operation to enhance biomass production for biofertilizer application	Enrica Uggetti	Universitat Politècnica de Catalunya
3.82	The GAIA project: Bioelectroconversion of orGANic waste streams and CO2 into sustalnAble fuels	Maria Vega	Leitat Technological Center
3.83	Determination of microplastics in three wastewater treatment plants in north-western Spain	Carlota Vijande	Universidade de Santiago de Compostela
3.84	Synergistic cytotoxicity of specific combination of water disinfection by-products assessed by bacterial reverse mutation tests	Laura Vinardell	Eurecat
3.85	Enantioselective uptake, distribution, and biotransformation of chiral pharmaceuticals venlafaxine and O-desmethylenlafaxine in hydroponic lettuces	Zhen Wang	Catalan Institute for Water Research
3.86	Contactless membrane distillation for effective ammonia recovery from waste sludge	Lei WEN	The University of Hong Kong
3.87	Gravity-driven Membrane Filtration Primary Wastewater Effluent for Irrigating Soil-plants and Hydroponic-plants	Bing Wu	University of Iceland
3.88	Regeneration of high-quality water for reuse by forward osmosis-reverse osmosis system treating urban wastewater	Xuefei Yang	CETIM Technological Centre
3.89	Exploring the potential of olive by-products: antioxidants, sugars, contaminants and energy	Soraya Zahedi Diaz	Instituto Grasa CSIC
3.90	Exploring veterinary drug and resistance genes in livestock manure and their removal by biomethanisation	Soraya Zahedi Diaz	Instituto Grasa CSIC
3.91	Implementation of a municipal wastewater treatment technology to eutrophic environments: Ammonium nitrogen dosing strategy for developing phosphorus recovery from marine sediments	Fengyi Zhu	KTH Royal Institute of Technology
3.92	Application of electrocoagulation treatment to meat industry wastewater	Nataša Duduković	University of Novi Sad
3.93	Applying helium within a hot-bubble pilot plant to enhance the recovery of pure water from supersaturated air	Thi Thuy Nguyen	University of New South Wales
<b>4. Digitalization</b>			
<b>POSTER No.</b>	<b>TITLE</b>	<b>PRESENTING AUTHOR</b>	<b>AFFILIATION</b>
4.1	Modelling salinity effects on aerobic granular sludge treating fish-canning wastewater	Paula Carrera Fernández	Ghent University
4.2	SADAR: a digital predictive system with photonic pathogen biosensors for safe water reclamation in WWTP	Ruben Garcia Tirado	FACSA
4.3	Real-time, in-situ nitrite and nitrate analyser for process control within wastewater treatment facilities	Meritxell Grau Butinyac	TE Laboratories
4.4	Prediction of methane production of co-digestion of pig manure in WWTP based on metabolic and machine learning models	Carlos Lafita	Global Omnium
4.5	Aerial Mapping of Pollution and Odour in a Wastewater Treatment Plant: the SNIFFIRDRONE project	Lidia Saúco Bozic	DAM Aguas
4.6	Study of atmospheric pollutants generated in wastewater treatment plants using Artificial Intelligence	Lidia Saúco Bozic	DAM Aguas
4.7	Effect of temperature on the kinetics of methane production in the co-digestion of manure and agri-food waste in WWTP	Mª Jose tarrega Marti	GLOBAL OMNIUM MEDIOAMBIENTE, S.L.



4.8	Digital Water at Consorci Besòs Tordera	Jackson Tellez Alvarez	ConSORCI Besòs Tordera 7 Ccb Serveis
4.9	Quantitative Image Analysis of Biosolids: Evaluating morphological parameters versus visual features	Sebastian Topalian	Technical University of Denmark
4.10	HADES: a digital twin for the optimization of WWTP performance	Carla Vázquez	ACCIONA
4.11	4SM Project. Spread sewer sensing for sustainable management: advanced tools for optimal sewer management	Oriol Gutiérrez	ICRA
<b>5. Economics and environmental/social footprint</b>			
POSTER No.	TITLE	PRESENTING AUTHOR	AFFILIATION
5.1	Lowering of groundwater levels and their effect on Water, Sanitation and Hygiene services in the Savelugu District, Northern Region of Ghana	Albert Acheampong	KNUST (WORLD VISION GHANA)
5.2	Theoretical feasibility assessment of water loops in the Balearic Islands of Mallorca, Cabrera, and Formentera	Gianluigi Buttiglieri	ICRA
5.3	The uncertainty of N <sub>2</sub> O emissions is underestimated and hampers accurate comparison of WWT technologies.	Carlos Domingo Felez	University of Glasgow
5.4	Re-thinking industrial wastewater treatment using advanced mathematical modelling.	Xavier Flores-Alsina	Danmarks Tekniske Universitet
5.5	Distinct characteristic pollution and systematical ecological risk assessment of microplastic in the Yangtze River	Qianen Huang	Northwest A&F Univercity
5.6	Case Study of Climate Change Countermeasures (Jeju Island in South Korea)	Jinkeun Kim	Jeju National Univ.
5.7	Social footprint evaluated within Chilean rural wastewater treatment plants	Paula Madariaga	University of Santiago of Chile
5.8	Stakeholders' attitudes towards acceptance in the use of nutrient reuse technologies and decentralised systems in four case studies in Europe	Beatriz Medina	WE&B
5.9	Monitoring of odorous emissions in WWTPs: proposal for a simple procedure	Laura Palli	GIDA spa
5.10	The effect of liquid wastes on a full-scale WWTP nitrogen removal performance	Laura Palli	GIDA spa
5.11	Nature-based solutions in Europe and Latin America: A comparative analysis of regional situation and addressed challenges	Yarima Recalde	University of Girona
5.12	Emerging contaminants occurrence in an urban wastewater impacted aquifer: The Onyar River basin study case	Nonito Ros Berja	ICRA
5.13	Effects of Environmental and Social Factors on Eutrophication in Tonle Sap Lake	Vouchlay Theng	Institute of Technology of Cambodia
5.14	Monitoring and study of specified metals' behaviour in a large Italian wastewater treatment plant	Francesca Tuci	Università degli Studi di Firenze
5.15	The challenges of the indigenous perspective on water security in the Amazon region	Antonina Torrens	Universitat de Barcelona
5.16	Bioplastics accelerated degradation under simulated conditions: generating data for including their end-of-life in LCA studies	Brais Vázquez Vázquez	Universidade de Santiago de Compostela
5.17	Patterns of water quality and diatom community in the largest northwest river of Tonle Sap Basin, Cambodia	Socheat Chrea	University of Battambang
5.18	Development of an integrated framework for life-cycle economic, environmental, and human health impact assessment for urban water systems	Yuyao WANG	The University of Hong Kong