Conference Programme



(as of September 13, 2022)

REGISTRATION DESK IS OPEN:

Monday afternoon (Sept 19): 14:00 – 18:30

Tuesday - Thursday (Sept 20-22): 08:00 - 13:30 & 17:00 - 20:30

MONDAY, 19 – SEPTEMBER – 2022 WORKSHOP		
10:00 - 14:00	ISMET8 – Workshop (Room A & B)	
	10:00 – 11:00	Three (3) Short Lectures (Room A)
		Instructors: Paniz Izadi (UFZ), Antonio Berná (IMDEA Water), and Catarina Morais Paquete (U. NOVA de Lisboa)
	11:00 – 11:30	Coffee break
	11:30 – 13:00	Tutorials on 3 topics (30 min each) for two equal-sized groups (in Rooms A & B)
	13:00 – 14:00	Quick lunch
14:00 - 18:00	FREE TIME, R	EGISTRATION TIME, POSTER SET UP (Group A)

MONDAY, 19 –	MONDAY, 19 – SEPTEMBER – 2022 AFTERNOON SESSION	
18:00 - 18:45	WELCOME PLENARY – ROOM A Chairpersons: Nicolas Kalogerakis & Abraham Esteve-Núñez	
ID K-1	KEYNOTE #1: "Hops, Walks, and Spins: The Choreography of Extracellular Electron Transfer" Moh El-Naggar, University of Southern California, Los Angeles (USA)	
19:00 - 22:00	ICE-BREAKER & WELCOME PARTY at Conference Venue (Minoa Palace Hotel, next to the pool of the North Building – Conference Center near the beach)	

TUESDA	TUESDAY, 20 – SEPTEMBER – 2022 MORNING SESSIONS		
09:00 - 09:40		Opening Ceremony – ROOM A	
		N. Kalogerakis, A. Esteve-Núñez, Conference co-Chairs	
		N. Kalogeris, Vice Governor of the Region of Crete	
	M. Lagoudakis, Rector, Technical University of Crete		
		F. Harnisch, President ISMET	
		PLENARY LECTURE – ROOM A	
09:40 -	10:30	Chairpersons: Nicolas Kalogerakis & & Abraham Esteve-Núñez	
ID K-2		KEYNOTE#2: "Direct conversion of power to fuel: Electromethanogenesis"	
		Amelia-Elena Rotaru, University of Southern Denmark, Odense (Denmark)	
		Tanona Liena notara, omversity of coatmern bermany caerise (bermany	
10:30 -	11:00	Coffee break & Poster viewing (GROUP A)	
11:00 -	13:30	SESSION - 1A: Bioremediation, resource recovery & water treatment - I	
(ROOM	A)	Chairpersons: Jung Rae Kim & Alberto Botti	
	Insights	in ethanethiol degradation kinetics at biocathodes	
		lzinga ^{1,2} , Ayleen Lascaris ¹ , Johannes B.M. Klok ¹⁻³ , Annemiek ter Heijne ¹ , Cees J.N.	
ID 01	Buismar		
		mental Technology, Wageningen University, Wageningen, The Netherlands	
		.V., Utrecht, The Netherlands Centre of Excellence for Sustainable Water Technology, Leeuwarden, The Netherlands	
ID 18		specting for electrochemically active perchlorate-reducing microorganisms from	
15 10	_	cama desert	
		orres-Rojas ^a , Diana Muñoz ^{a,c} , Camila Pía Canales ^b and Ignacio T. Vargas ^{a,c*}	
	-	e Ingeniería Hidráulica y Ambiental, Pontificia Univ. Católica de Chile, Santiago, Chile.	
		Institute & Faculty of Industrial Engineering, Mechanical Engineering and Computer	
		University of Iceland, Reykjavík, Iceland	
	_	de Desarrollo Urbano Sustentable (CEDEUS), Chile	
ID 55		ng smell from Hades (Ἀδης): Microbial electrochemical removal of phenol and	
		in a closed system	
	Shixiang Dai ¹ , Falk Harnisch ¹ , Mohammad Sufian Bin Hudari ² , Nina Sophie Keller ² , Steffen		
	Kümmel	² , Benjamin Korth ^{1*} and Carsten Vogt ^{2*}	
		Environmental Microbiology, Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany	
ID = 6		sotope Biogeochemistry, Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany	
ID 56	_	hand to hygieia: an e-settler for wastewater polishing	
		Botti ¹ , Narcis Pous ² , Hao-Yi Cheng ³ , Giulio Zanaroli ¹ and Sebastià Puig ² Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Italy	
	•	Institute of the Environment, University of Girona, Girona, Spain.	
		y Lab of Urban Water Resource and Environment, School of Civil and Environmental Engineering,	
		stitute of Technology Shenzhen, PR China	
ID 76		tion of biogenic palladium nanoparticles through electrochemical systems for the	
	_	c removal of micropollutants in wastewater	
	•	Y Law ^{1,2} , Kankana Kundu ^{1,2} , Luiza Bonin ^{1,2} , Lorena Peñacoba-Antona ^{3,4} , Eduardo Bolea-	
		ez ⁵ , Frank Vanhaecke ⁵ , Korneel Rabaey ^{1,2} , Abraham Esteve-Núñez ^{3,4,6} , Bart De	
		e ^{1,2} , Nico Boon ^{1,2}	
		or Microbial Ecology and Technology (CMET), Ghent University, Belgium or Advanced Process Technology for Urban Resource recovery (CAPTURE), Gent, Belgium	
		r S.L., Autovía A49 Sevilla-Huelva Km 28, Sevilla, Spain	
		Vater Institute, Av. Punto Com, 2, Parque Científico Tecnológico, Madrid, Spain	
		& Mass Spectrometry (A&MS) research group, Dept of Chemistry, Ghent University, Belgium	
	⁶ Univ. de	Alcalá, Dept of Analytical Chemistry, Physical Chemistry and Chemical Engineering, Madrid, Spain	

ID 80	(Bio)ele	ectrochemical nitrogen recovery at full WWTP scale: Modelling and techno-	
	econom	nic assessment	
	Veera K	oskue ¹ , Veli-Pekka Pyrhönen ¹ , Stefano Freguia ² , Pablo Ledezma ³ and Marika Kokko ¹	
	¹ Faculty (of Engineering and Natural Sciences, Tampere University, Finland	
	-	nent of Chemical Engineering, The University of Melbourne, Australia	
		an Centre for Water and Environmental Biotechnology, The University of Queensland, Australia	
ID 81		n situ groundwater remediation approach using bioelectrochemical systems and	
		tive nanoparticles	
		er Rostek ¹ , Robert Rameker ¹ , Mahshid Golalikhani ¹ , Detlef Diesing ² , and Rainer U.	
	Mecken		
		mental Microbiology and Biotechnology (EMB), University of Duisburg-Essen, Germany ² Physical	
10.04		y, University of Duisburg-Essen, Germany	
ID 94		ecovery from end-of-life photovoltaic panels using a microbial fuel cell	
		os Kanellos ¹ , Asimina Tremouli ^{1,*} , Petros Tsakiridis ² , Emmanouella Remoundaki ² ,	
		os Lyberatos ^{1,3}	
		of Chemical Engineering, National Technical University of Athens, Athens, Greece. Of Mining and Metallurgical Engineering, National Technical University of Athens, Athens, Greece.	
		e of Chemical Engineering Sciences (ICE-HT), Patras, Greece.	
		PRAL PRESENTATIONS:	
ID 10		able Remediation of landfill leachate Contamination by utilizing a Bio-	
.5 20		chemical System (BES)	
		Baho ¹ , Rory Doherty ² , Deepak Kumaresan ³ , Caroline Gauchotte-Lindsay ⁴ , Jonathan	
	Gregg 5	sailo ; Rory Donerty , Deepak kumaresair , Caroline Gauchotte-Linusay , Johathan	
		University of Belfast, SNBE, Belfast, UK, ² Queen's University of Belfast, SNBE, Belfast, UK,	
		University of Belfast, SBS, Belfast, UK, 4University of Glasgow, SE, Glasgow, UK,	
		University of Belfast, SNBE, Belfast, UK.	
ID 16	The pot	ential of microbial electrochemical systems for martian in situ resource	
	utilizati	•	
		Ramalho ^{1,2} , Antoine Carissimo ¹ , Sven Kerzenmacher ¹ , Cyprien Verseux ² and Guillaume	
	Pillot ¹		
	¹ Center f	or Environmental Research and Sustainable Technology (UFT), Univ. of Bremen, Bremen, Germany	
		of Applied Space Technology and Microgravity (ZARM), Univ. of Bremen, Bremen, Germany	
ID 25	Effect o	f hydraulic conditions on PFR reactors with electro-conductive filterbeds to	
	improv	e OC degradation	
	Annegre	et Budach ¹ , Amanda Prado de Nicolás ² , Abraham Esteve Nuñez ² , Anja Miltner ¹ and	
		s Kästner ¹	
•		Environmental Biotechnology, Helmholtz Centre for Environmental Research - UFZ, Germany	
		Analytical Chemistry, Physical Chemistry and Chemical Engineering, University of Alcalá, Spain.	
ID 62		g the biosurfactant synthesis and electricity generation from waste vegetable oil	
		athode microbial fuel cell	
	Aleksander de Rosset ¹ , Grzegorz Pasternak ¹		
44.00		ory of Microbial Electrochemical Systems, Wroclaw University of Science and Technology, Poland.	
11:00 -		SESSION - 1B: Electrochemistry of microorganisms and enzymes	
(ROON		Chairpersons: Miriam Rosenbaum & Jörg Deutzmann	
ID I-1		presentation:	
		struments for high-throughput microbial electrochemistry	
		Prévoteau ^{1,2} , Tom Molderez ³ , David Hernandez Villamor ^{1,2} , Musa Aydogan ³ , Marian	
	Verhelst ³ , Korneel Rabaey ^{1,2}		
		or Microbial Ecology and Technology (CMET), Ghent University, Ghent, Belgium	
		or Advanced Process Technology for Urban Resource Recovery (CAPTURE), Ghent, Belgium	
ID 12	³ MICAS, KU Leuven, Kasteelpark Arenberg 10, Leuven, Belgium The electrical properties of cable besteries ring for bigolectronics?		
10 12	Francisco Property and the control of the control o		
	Robin Bonné ¹ , Koen Wouters ² , Leonid Digel ¹ , Lars Peter Nielsen ¹ , Jean V. Manca ²		

	¹ CEM, Aarhus University, Denmark ² X-LAB, Hasselt University, Belgium
ID 21	"Olympian battle": Effect of methanogens on the activity and microbial community of
	Geobacter spp. dominated biofilm anodes
	<u>Daniel Dzofou Ngoumelah</u> ^{1,2} ,Anne Kuchenbuch ² , Falk Harnisch ² , Jörg Kretzschmar ¹
	¹ DBFZ - German Biomass Research Centre, Leipzig, Germany
	² Dept of Envi. Microbiology, UFZ – Helmholtz-Centre for Environmental Research, Leipzig, Germany
ID 31	Following the Ἀλκμαίων approach: Electrochemical and microbial dissection of
	electrified biotrickling filters
	Benjamin Korth ¹ , Narcís Pous ² , Richard Hönig ¹ , Philip Haus ¹ , Felipe Borim Corrêa ¹ , Ulisses Nunes
	da Rocha ¹ , Sebastià Puig ² , Falk Harnisch ¹
	¹ Dept of Environmental Microbiology, Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany
	² Lab of Chemical and Environmental Engineering (LEQUiA), University of Girona, Girona, Spain
ID 54	Cable bacteria filaments as an electrochemical working electrode
	Leonid Digel ¹ , Robin Bonné ¹ , Maciej Mierzwa ^{1,2} , Ileana-Alexandra Pavel ² , Elena Ferapontova ³ ,
	Silvia E. Zieger ⁴ , Thomas Boesen ^{1,3,5} , Alexander Kuhn ² , Falk Harnisch ⁶ and Lars Peter Nielsen ¹
	¹ Center for Electromicrobiology, Department of Biology, Aarhus University, Denmark
	² Univ. Bordeaux, CNRS, Bordeaux INP, ISM, UMR 5255, Site ENSCBP, Pessac, France
	³ iNANO, Aarhus University, Denmark,
	⁴ Aarhus University Center for Water Technology, Aarhus University, Denmark,
	⁵ Department of Molecular Biology and Genetics, Aarhus University, Denmark
ID 164	⁶ Dept of Env. Microbiology, Helmholtz-Centre for Environmental Research - UFZ, Leipzig, Germany
ID 164	Improved process efficiency of bio-based succinic acid production and in situ
	electrochemical separation
	Chrysanthi Pateraki ¹ , Eleni Stylianou ¹ , Elena Magdalinou ¹ , Dimitrios Skliros ² , Emmanouil
	Flemetakis ² , Korneel Rabaey ³ , Apostolis Koutinas ¹ ¹ Department of Food Science and Human Nutrition, Agricultural University of Athens, Athens, Greece
	² Department of Food Science and normal Normalon, Agricultural Oniversity of Athens, Athens, Greece
	³ Lab of Microbial Ecology and Technology, Ghent University, Ghent, Belgium
ID 168	Enrichment strategy of chemiolithotrophic biofilm for nitrogen fixation in MES
	Axel Rous, EricTrably, Elie Le-Quemener and Nicolas Bernet
	INRAE, Univ Montpellier, LBE, Narbonne, France
	FLASH ORAL PRESENTATIONS:
ID 38	"Natura nihil frustra facit – Nature does nothing in vain"
	How to screen efficiently for electroactive microorganisms?
	Anne Kuchenbuch ¹ , Ronny Frank ² , José Vazquez Ramos ² , Heinz-Georg Jahnke ² , Falk Harnisch ¹
	¹ UFZ – Helmholtz-Centre for Environmental Research, Dept of Env. Microbiology, Leipzig, Germany
	² Centre for Biotechnology and Biomedicine, Molecular biological-biochemical Processing Technology, Leipzig
	University, Leipzig, Germany
ID 58	Substrate Specific Current Enhancement in Alzheimer's Pathogen Porphyromonas
	gingivalis
	<u>Divya Naradasu</u> ^a , Luo Dan ^a , Sotaro Takano ^a , Ariyoshi Wataru ^b and Akihiro Okamoto ^{a,c}
	^a Intl Center for Materials Nanoarchitectonics, National Institute for Materials Science, Ibaraki, Japan.
	^b Division of Infections and Molecular Biology, Department of Health Promotion, Science of Health
	Improvement, Kyushu Dental University, Kitakyushu, Japan.
	^c Graduate School of Chemical Sciences and Engineering, Hokkaido University, Hokkaido, Japan
ID 67	Soil microorganisms facilitated the electrode-driven trichloroethene dechlorination to
	ethene by <i>Dehalococcoides</i> species in a bioelectrochemical system
	<u>Lingyu Meng</u> ¹ , Naoko Yoshida ¹ , Zhiling Li ²
	¹ Department of Civil Engineering, Nagoya Institute of Technology (Nitech), Nagoya, Japan
	² State Key Lab of Urban Water Resources and Environment, School of Environment, Harbin Institute of
	·
ID 426	Technology, Harbin, China
ID 126	·

	René Ca	René Cardeña ^{1,2} , Gamaliel Ramirez-Ramirez ¹ , Angela Cabezas ² , Germán Buitrón ¹		
	¹ Laborat	¹ Laboratory for Research on Advanced Processes for Water Treatment, Instituto de Ingeniería, Unidad		
	Académi	Académica Juriquilla, Universidad Nacional Autónoma de México, México.		
	² Instituto	Tecnológico Regional Centro Sur, Universidad Tecnológica, Durazno, Uruguay.		
ID 153	Physiol Physiol	ogy of Synechocystis sp. PCC 6803 under BPV conditions		
	Hans Sc	hneider, Bin Lai and Jens O. Kroemer ¹		
	Departm	ent of Solar Materials, Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany		
13:30	- 14:30	LUNCH (Minoa Palace Hotel)		
		·		
14:30	- 17:00	NETWORKING TIME		
		ISMET8 SIDE-EVENT:		
		2 nd ELECTRA STAKEHOLDERS WORKSHOP (Room A)		
45.00	46.20	"Pilot testing of ELECTRA technologies for electro-bioremediation"		
15:00	- 16:30	a) Brief overview of H2020-ELECTRA project technologies		
		b) Presentation of technologies being tested on site		
		,		
		c) Q & A		

TUESDA	TUESDAY, 20 – SEPTEMBER – 2022 AFTERNOON SESSIONS		
		SESSION - 2A: Bioremediation, resource re	•
(ROOM	1	Chairpersons: Federico Aulenta & Marco Z	eppilli
ID I-2		oresentation:	
	Continuo	ous electron shuttling by sulfide oxidizing ba	acteria as a novel strategy to produce
	electric o	current	
	Annemie	k Ter Heijne	
	Dept of Ag	grotechnology and Food Sciences, Wageningen Univer	rsity (The Netherlands)
ID 103	In search	n for electroactive petroleum degraders and	biosurfactant producers in pristine
	and cont	taminated environments	
	Grzegorz	Pasternak ¹ , Bartosz Widera ¹ , Natalia Tyszkiewic	cz ¹
	¹ Lab of Mi	icrobial Electrochemical Systems, Faculty of Chemistry	y, Wroclaw Univ. of Science and Tech, Poland
ID 108	A two-st	age bio(electro)chemical process for the rer	moval of toluene and chloroform
	from cor	ntaminated groundwater	
	Matteo T	ucci ¹ , David Fernández-Verdejo ² , Albert Guisaso	ola ³ , Paqui Blánquez ² , Ernest Marco-
		Marco Resitano¹, Pamela Ciacia¹, Carolina Cruz Vi	
		esearch Institute (IRSA), National Research Council (CN	
	² Biorem U	IAB, Department of Chemical, Biological and Environm	nental Engineering, School of Engineering,
		t Autònoma de Barcelona, Barcelona, Spain	
		V, Department of Chemical, Biological and Environme	
		t Autònoma de Barcelona, 08193 Bellaterra, Barcelona	•
ID 109		bioelectrochemical nitrogen recovery from	•
		<u>l</u> 1, Mariella Belén Galeano ¹ , Mira Lotta Kristiina ¹	, Mireia Baeza², Juan Antonio Baeza¹,
	Albert Gu		
		V, Departament d'Enginyeria Química, Biològica I Amb	
	·	nent de Química, Facultat de Ciències Universitat Autò	onoma de Barcelona
		RAL PRESENTATIONS:	
ID 113		philic microbial consortium selected for the	
	saline te	xtile effluents containing recalcitrant azo dy	/es

	Sirine Saadaoui ^{1,2,3} , Habib Chouchane ¹ , Ameur Cherif ¹ and Benjamin Erable ³		
	¹ Univ. Manouba, ISBST, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia		
	² Faculty of Sciences of Tunis, University of Tunis El Manar, Tunis, Tunisia		
	³ Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France.		
ID 163	Removal of oil pollution from marine sediments using bioelectrochemical system		
	<u>Jaak Truu</u> , Marika Truu, Kertu Tiirik		
	Institute of Molecular and Cell Biology, University of Tartu, Estonia		
ID 171	Nitrate removal from groundwater by fluidized BES with conductive activated carbon		
	and vitreous carbon		
	Xiaofei Wang ^{1,2*} , Michiel Verheye ^{1,2} and Korneel Rabaey ^{1,2}		
	¹ Center for Microbial Ecology and Technology (CMET), Ghent University, Ghent, Belgium		
	² Centre for Advanced Process Technology for Urban Resource Recovery (CAPTURE), Ghent, Belgium		
ID 180	Nitrate recovery in groundwater and single cell protein production in an in-situ		
	electrolyzer		
	Yufeng Jiang, Yifeng Zhang		
	Department of Environmental Engineering, Technical University of Denmark, Denmark		
ID 194	Isolation of electroactive hydrocarbon-degrading consortia for on-site groundwater		
	electrobioremediation		
	Martí Aliaguilla ¹ , Laura Huidobro ¹ , Pablo Sánchez-Cueto ¹ , Daniele Molognoni ¹ , Pau Bosch-		
	Jimenez ¹ , David Gramunt ² , Alfredo Pérez-de-Mora ³ , and <u>Eduard Borràs¹</u>		
	¹ LEITAT Technological Center, C/ de la Innovació 2, Terrassa, Spain		
	² TAUW Iberia SAU, Centre d'Empreses de Noves Tecnologies, Cerdanyola del Vallès, Spain		
	³ TAUW GmbH, Dept. of Soil & Groundwater, Munich, Germany		
17:00 -	18:30 SESSION - 2B: Scale-up of MET for commercialisation - I		
(ROOM	B) Chairpersons: Annemiek Ter Heijne & Daniele Molognoni		
ID 48	Road trip: Nitrate electro-bioremediation from the laboratory to pilot plant		
	Alba Ceballos-Escalera, Narcís Pous, M. Dolors Balaguer, Sebastià Puig		
	LEQUIA, Institute of the Environment, University of Girona, Girona, Spain		
ID 83	Design, set-up and operation of a fully-automated BES for thermophilic CO2 reduction to		
	acetate		
	<u>Laura Rovira-Alsina</u> ¹ , Sabine Spiess ² , Marianne Haberbauer ² , M. Dolors Balaguer ¹ and Sebastià		
	Puig ¹		
	¹ LEQUIA. Institute of the Environment. University of Girona. Campus Montilivi, Girona, Catalonia, Spain.		
	² K1-MET GmbH, Linz, Austria.		
ID 95	Pilot-Scale Studies of A Novel Type Hydrogen-Producing Microbial Electrolysis Cells		
	(MECs) Reactor Treating High-Strength Organic Wastes		
	Jinsu Choi, Junggyu Kim, Minsoo Kim, Heewon Jeon, Eunsil Bae, Ho Joon Lee and Dae-Yeol		
	Cheong		
	BioX Inc., Research Institute, Seodaemun-gu, Seoul, Republic of Korea		
ID 101	Optimising the design of large scale microbial electrochemical technologies though		
	mathematical modelling and high-performance computing		
	Jordan Day ¹ , Toby Wood ² and Elizabeth Heidrich ¹		
	¹ School of Engineering, Newcastle University, Newcastle-upon-Tyne, UK		
	² School of Mathematics, Statistics and Physics, Newcastle University, Newcastle-upon-Tyne, UK		
ID 142	METZero: turning wastewater treatment Net-Zero using Microbial Electrochemical		
	Technologies (METs)		
	Pavlina Theodosiou ¹ , Ellen van Voorthuizen ² , Paul Lavender ² and Elizabeth Heidrich ¹		
	¹ Dept. of Environmental Engineering, School of Engineering, Newcastle University, UK		
	² Water and Maritime, Royal Haskoning DHV, UK		
	FLASH ORAL PRESENTATIONS:		
ID 102			
10 102	Enhancing hydrogen production from real industrial wastewater in a 150L MEC pilot		
10 102	Enhancing hydrogen production from real industrial wastewater in a 150L MEC pilot plant		

	Oscar Guerrero-Sodric ¹ , Juan Antonio Baeza ¹ , Albert Guisasola ¹		
	¹ GENOCOV, Departament d'Enginyeria Química, Biològica i Ambiental, Universitat Autònoma de Barcelona,		
	Cerdanyola del Vallès, Spain		
ID 228	Potential of electricity generation from Microbial Fuel Cells using a pure culture of		
	Pseudomonas citronellolis		
	Constantina Varnava ¹ , Ioannis Ieropoulos ² , Argyro Tsipa ^{1,3}		
	•	ent of Civil and Environmental Engineering, University of Cyprus, Nicosia, Cyprus	
	² Water and Environmental Engineering Group, University of Southampton, Southampton, UK		
	³ Nireas Int	ternational Water Research Centre, University of Cyprus, Nicosia, Cyprus	
18:30 -	19:00	Coffee break & Poster Viewing (GROUP A)	
19:00 -	20:30	SESSION – 3A: Bioremediation, resource recovery and water treatment - III	
(ROOM		Chairpersons: Ola Gomma & Yifeng Zhang	
ID 125		of a sequential bioelectrochemical process for chlorinated aliphatic	
	-	rbons removal from contaminated groundwater	
		ppilli, Edoardo Dell'Armi, Marco Petrangeli Papini, Mauro Majone	
		nt of Chemistry, University of Rome Sapienza, Rome Italy	
ID 138		ed hydroponics-microbial electrochemical technology for sewage management	
	at house		
		adav¹ and Sunil A. Patil¹	
		ent of Earth and Environmental Sciences, Indian Institute of Science Education and Research	
		SER Mohali), Punjab, India.	
ID 159	Electroa	ctive beds for enhanced wastewater treatment applications in constructed	
	wetland	s and other processes	
	Asheesh	Kumar Yadav ^{1,2} , Yolanda Sequra ¹ , Fernando Martinez ¹	
	¹ Dept of C	chemical and Environmental Technology, Rey Juan Carlos University, Madrid, Spain.	
	² Dept of E	nvironmental and Sustainability, CSIR-Institute Minerals and Materials Tech., Bhubaneswar, India	
ID 169	Start-up	strategies and performance of anaerobic digestion-microbial electrolysis cell	
	integrate	ed systems of cattle manure	
	<u>Feride Ece Kutlar</u> , Mert Sanli, Amin Ghaderikia, Tuba Hande Erguder, Yasemin Dilsad Yilmazel		
ID 400	Department of Environmental Engineering, Middle East Technical University, Ankara, Turkey		
ID 189	and dy die assessment and dost enectiveness analysis of sio electroenesis enections		
		ogies (ELECTRA pilots)	
		isev ¹ , Vinzenz Müller ¹ and Christoph Hugi ¹	
		y of Applied Sciences and Arts Northwestern Switzerland (FHNW), School of Life Sciences (HLS),	
ID 197		or Ecopreneurship (IEC) ights into carbon properties to promote microbial electroactivity for wastewater	
וט באו	treatme	, , , , , , , , , , , , , , , , , , , ,	
		guer ¹ , A. Prado ^{2,3} , M. Ramírez-Moreno ^{2,3} , M. Llorente ² , J.M. Ortiz ³ , and A. Esteve-	
	Núñez ^{2,3,4}		
		Universitario de Materiales, Departamento Química Física, Universidad de Alicante, Alicante, Spain	
		y of Alcalá, Dept of Analytical Chemistry, Physical Chemistry and Chemical Engineering, Spain	
		/ater Institute, Alcalá de Henares, Madrid, Spain	
		, Carrión de los Céspedes, Spain	
		RAL PRESENTATIONS:	
ID 212	_	ment of algal fuel cells for decolourisation of azo dyes	
		orahim ^{1,2} , Tajalli Keshavarz ¹ , Godfrey Kyazze ¹	
		Life Sciences, University of Westminster, London, UK	
ID 225	² Department of Botany and Microbiology, Alexandria University, Alexandria, Egypt.		
10 223	Comparing the efficiency of constructed wetlands for hydrocarbon removal amended		
	with oxy	gen supply via in situ electrochemical production versus nanobubble injection.	

	Petroula Seridou ¹ , M. Vamvakia ¹ , E. Syranidou ¹ , A. Vlysidis ¹ , N. Kalogerakis ¹	
	¹ School of	Chemical and Environmental Engineering, Technical University of Crete, Greece
19:00 -	20:30	SESSION – 3B: Scale-up of MET for commercialisation - II
(ROOM	В)	Chairpersons: Pablo Ledezma & Katharina Herkendell
ID 181	Optimiza	ation of low-voltage boosting for an air-cathode microbial fuel cell with an anion
	exchange	e membrane in a 246L wastewater treatment reactor
	Naoko Yo	shida ¹ , Ayano Shimidzu ¹ , Toshiaki Hashimoto ¹ , Kyosuke Mitsuoka ¹ , Fumichika Tanaka ¹
	¹ Departme	ent of Civil Engineering, Nagoya Institute of Technology (Nitech), Nagoya, Aichi, Japan
ID 183		2 to acetate: long-term operation of a scaled-up bioelectrochemical system in
		rld" wastewater treatment plant
	Silvia Bol	ognesi ¹ , Radka Matová ² , M. Dolors Balaguer ¹ , Yeray Asensio ³ , Victor M. Monsalvo ³ and
	Sebastià I	
	-	nstitute of the Environment, Universitat de Girona, Girona, Spain
	•	lia Czech Republic, Ostrava-Mariánské Hory a Hulváky, Czech Republic.
	-	lia, Department of Innovation and Technology, Madrid, Spain
ID 187		ochemically-improved anaerobic digestion for industrial wastewater
		ion: from laboratory to pilot-scale
		z Martí¹, David Moyano Domínguez¹, <u>Daniele Molognoni¹</u> , Silvia Mena Fernandez¹,
		De Soto², Xavier Tutó Cabedo², Pau Bosch-Jimenez¹ and Eduard Borràs¹
		chnological Center, C/ de la Innovació 2, Terrassa, Spain
		chnological Center (DFactory), C/ 27, Barcelona, Spain
ID 190		Il desalination cell for low energy drinking water: the roadmap towards
		ble desalination
	Marina Ramírez-Moreno ^{1,4} , Pau Ródenas¹, Martí Aliaguilla², Pau Bosch-Jimenez², Eduard Borràs²,	
	Naiara Hernández ³ , Patricia Zamora ³ , Víctor Monsalvo-Garcia ³ , Frank Rogalla ³ , Juan Manuel	
		Abraham Esteve-Núñez ^{1, 4} .
		ater Institute, Alcalá de Henares, Madrid, Spain,
		chnological Center, Barcelona, Spain
	•	lia S.A., Madrid, Spain
	⁻ Analytical	Chemistry, Physical Chemistry, and Chemical Eng. Dept, Universidad de Alcalá, Madrid, Spain.

WEDNE	SDAY. 21	– SEPTEMBER – 2022 MORNING SESSIONS	
8:30 - 9		PLENARY LECTURE – ROOM A	
8.30 - 3	.13	Chairpersons: Nicolas Kalogerakis & Abraham Esteve-Núñez	
ID K 2			
ID K-3		KEYNOTE #3: "Achieving unprecedented current and power densities in microbial electrochemical technologies using zero-gap spacing and vapor-fed electrodes"	
		Bruce Logan, Engineering Energy & Environ. Inst., Dept of Civil & Environmental Eng.,	
		Penn State (USA)	
9:15 - 1	0.45	SESSION - 4A: Extracellular electron transfer processes - I	
(ROOM		Chairpersons: Catarina Paquete and Changman Kim	
ID 44	· ·	ing the early stages of microbial anode formation using real-time optical	
	-	copy and image processing	
		lartinez Ostormujof¹, Sébastien Teychené¹, Emmanuel Cid¹ and Benjamin Erable¹	
		oire de Génie Chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France.	
ID 49		erization of exoelectrogenic biofilms using microfluidic reactors and a robotic	
		g platform	
		ein, René Wurst and Johannes Gescher	
		for Technical Microbiology, Hamburg University of Technology, Germany	
ID 52		es and flavins have distinct, but complementary roles in extracellular electron	
	-	r in Lactiplantibacillus plantarum	
		r, Siliang Li, and Caroline M. Ajo-Franklin.	
		ent of Biosciences, Rice University, Houston, Texas	
ID 68		Nanowires to the rescue: How do Geobacter breathe without oxygen or soluble	
		n acceptors?	
		Malvankar	
		Il Sciences Institute, Yale University, USA	
ID 75		ing exoelectrogenic biofilms with magnetic and conductive nano- and	
		ructures	
	René W	urst, Edina Klein, Johannes Gescher	
		of Technical Microbiology, Hamburg University of Technology (TUHH), Germany	
	FLASH C	PRAL PRESENTATIONS:	
ID 69	Reveali	ng new electroactive bacteria that use phenazines as extracellular electron	
	shuttle	S	
	Angel Fr	anco¹, Mahmoud Elbahnasy¹,² and Miriam A. Rosenbaum¹,²	
		nstitute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena, Germany	
		of Biological Sciences, Friedrich Schiller University, Jena, Germany	
ID 71		tanding redox mediator based Extracellular electron transfer in E. coli	
		undu ¹ , Caroline M. Ajo-Franklin ¹	
		gram in Systems, Synthetic, and Physical Biology, Rice University, Houston, Texas, USA	
9:15 - 1		SESSION – 4B: Material science and reactor design – I	
(ROOM	<u> </u>	Chairpersons: Sunil Patil & Paniz Izadi	
ID I-3		presentation:	
	Design of reactors for high current density and high coulombic efficiency hydrogen-		
	mediated microbial electrosynthesis from CO ₂		
	Kun Guo ¹ , Wenfang Cai ¹ , Kai Cui ¹ , Gaoyuan Shang ¹ and Zeyan Pan ¹		
		of Chemical Engineering and Technology, Xi'an Jiaotong University, China	
ID 30		photovoltaics for biohydrogen production using sunlight and water	
		Hans Schneider ¹ , Maximillian Feußner ² , Jens Krömer ¹	
	•	nent of Solar Materials, Helmholtz Centre for Environmental Research – UFZ, Germany	
	² Interdisciplinary Center for Bioinformatics, University of Leipzig, Germany		

ID 36	What a	re the actual conditions in 3D porous bioelectrodes? Microprofiling to	
	characterize local pH, H ₂ , electric field and redox potentials		
	Sanne M. de Smit ^{1,2} , Harry H. Bitter ¹ , David P.B.T.B. Strik ²		
		d Chemistry and Technology, Wageningen University and Research, Netherlands	
	² Environmental Technology, Wageningen University and Research, Netherlands		
ID 47			
10 47			
	condition		
		essì ^{1,2} , Claribel Buenaño ³ , <u>Santiago Martínez Sosa¹</u> , Simon Mills ³ , Deepak Pant ⁴ , Sebastià	
	U .	incent O'Flaherty³ and Pau Farràs¹	
		of Chemistry and Energy Research Centre, Ryan Institute, National Univ. of Ireland Galway, Ireland	
		, Institute of the Environment, University of Girona, Spain	
		ology Department, School of Natural Sciences, National University of Ireland Galway, Ireland	
		ion and Conversion Technology, Flemish Institute for Technological Research (VITO), Belgium	
		DRAL PRESENTATIONS:	
ID 03		ting current based electrochemical deposition of pure emeraldine salt redox	
	state of	f polyaniline to modify mw- cnt/polyester microfiber nonwoven based flexible	
	electro	de for microbial fuel cell	
	Rahul Ka	andpal ^{1, 2, 3} , Syed Wazed Ali ^{1,3} *, Shaikh Ziauddin Ahammad ^{1,2} *	
	¹School o	of Interdisciplinary Research (SIRe), Indian Institute of Technology Delhi, India	
	² Dept of	Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi, India	
	³ Dept of	Textile and Fibre Engineering, Indian Institute of Technology Delhi, New Delhi, India	
ID 20	Polyani	lline interweaved iron embedded in urea-formaldehyde resin-based carbon as a	
	cost-eff	fective catalyst for power generation in microbial fuel cell	
		Kaur Dhillon¹, <u>Patit P Kundu</u> ¹	
	¹ Department of Chemical Engineering, Indian Institute of Technology, Roorkee, India		
10:45 -	11:10	Coffee break & Poster Viewing (GROUP A)	
11:10 -	11:15	Group picture (coffee break area)	
11:15 -	13:30	SESSION - 5A: Extracellular electron transfer processes - II	
(ROOM	I A)	Chairpersons: Akihiro Okamoto and Bin Lai	
		presentation:	
		ial Physiology at Fluctuating Electrosynthesis	
		pormann and Joerg Deutzmann	
		ent of Civil & Environmental Engineering, Stanford University, CA, USA	
ID 79		ting the extracellular electron transfer pathway of <i>Sideroxydans lithotrophicus</i>	
10 73	ES-1	ting the extracential electron transfer pathway of Sideroxyddins inthotrophicus	
		Carlly 1 Alphin and Isin 2 James Bandiana 1 Carllin Tadana in 1 Discarda O James 1 Jaffress A	
		Coelho¹, Abhiney Jain², Joana Madjarov¹, Smilja Todorovic¹, Ricardo O. Louro¹, Jeffrey A.	
		² , <u>Catarina M. Paquete¹</u>	
		de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Portugal	
		nology Institute and Department of Plant and Microbial Biology, University of Minnesota, USA	
ID 85		geochemical cycles of iron, sulfur and nitrogen come together at the level of	
		eme cytochromes with clear evolutionary and structural relationships	
		Soares ^{1,2} , Nazua L. Costa ¹ , Catarina M. Paquete ¹ , Claudia Andreini ³ and Ricardo O.	
	Louro ^{1*}		
	¹ Instituto	o de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Portugal	
		o Nacional de Investigação Agrária e Veterinária, Portugal	
	³ Magnet	ic Resonance Center and Department of Chemistry, University of Florence, Sesto Fiorentino, Italy	
ID 96	Metabo	olically and morphologically diverse swarmers appear frequently around active	
cable bacteria		, , , , , , , , , , , , , , , , , , , ,	

	Jamie JN	M Lustermans ¹ , Jesper J Bjerg ^{1,2} , Casper A Thorup ¹ , Mantas Sereika ³ , Laurine DW
		¹ , Per H Nielsen ³ , Mads Albertsen ³ , Lars Peter Nielsen ¹ , Andreas Schramm ¹ and Ian PG
	Marshal	
		for Electromicrobiology, Institute for Microbiology, Dept of Biology, Aarhus University, Denmark
		al Systems Technology Excellence Centre, Dept of Biology, University of Antwerp, Wilrijk, Belgium
15.405		for Microbial Communities, Aalborg University, Denmark
ID 105		ed Electron Transfer in the supragingival microbiome.
		ernández Villamor ^{1,2} , Riet Boydens ^{1,2} , Tom Van de Wiele ¹ , Korneel Rabaey ^{1,2} and Antonin
	Prévote	
		for Microbial Ecology and Technology (CMET), Ghent University, Ghent, Belgium
ID 116		for Advanced Process Technology for Urban Resource Recovery (CAPTURE), Ghent, Belgium
ID 116		on and role of accessory Mtr proteins from <i>Shewanella oneidensis</i>
		A. Gralnick ¹ Inology Institute and Department of Plant and Microbial Biology, University of Minnesota, USA
ID 123		elling EET-based anaerobic metabolisms and microorganisms from the
10 123		aline sediments
		Patil, Srishti Chaudhary, Ramandeep Singh, Chetan Sadhotra and Sukrampal Yadav
		Earth and Environmental Sciences, IISER-Mohali, SAS Nagar, Punjab, India
		DRAL PRESENTATIONS:
ID 141		ering novel mechanisms for electron uptake in cathode- oxidizing marine
		ial consortia
		D. Sackett ¹ , Jin-Sang Yu ¹ , Nitin Kamble ¹ , Edmund Leach ¹ , Taruna Schuelke ² , Elizabeth
		ss ² , and Annette R. Rowe ¹
		nent of Biological Sciences, University of Cincinnati, Cincinnati, Ohio, USA
		nent of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, USA
ID 146	The nev	w electroactive Gram-positive bacterium Paenibacillus profundus YoMME
		lubenova ^{1,2} and Mario Mitov ^{3,4}
		e of Electrochemistry and Energy Systems "Acad. Evgeni Budevski", IEES- BAS, Sofia, Bulgaria
		nent of Biochemistry and Microbiology, Plovdiv University "Paisii Hilendarski", Plovdiv, Bulgaria
	-	nent of Chemistry, South-West University "Neofit Rilski", Blagoevgrad, Bulgaria ive Center for Eco Energy Technologies, South-West University "Neofit Rilski", Blagoevgrad, Bulgaria
11:15 -		SESSION - 5B: Electrochemical, biological & systemic analysis of METs
(ROOM		Chairpersons: Bruce Logan and Ignacio Vargas
ID I-5		presentation:
		ctives and opportunities for combining electrochemical processes with
	fermen	•
		. Wood and Bernardino Virdis
	Australia	n Centre for Water and Environmental Biotechnology – ACWEB, Australia
ID 04		me monitoring of biofilm thickness allows for determination of acetate limitations
	in bio-a	_
		reira ^{1,2} , Siqi Pang ¹ , Casper Borsje ¹ , Tom Sleutels ^{1,3} , Bert Hamelers ¹ , Annemiek ter Heijne ²
		, European Centre of Excellence for Sustainable Water Technology, Leeuwarden, the Netherlands
		mental Technology, Wageningen University, Wageningen, the Netherlands
		of Science and Engineering, University of Groningen, Groningen, The Netherlands
ID 13		chemical and microbiological response of exoelectrogenic biofilm to polyethylene
	-	lastics in water
		ang, Mingyi Xu, and Yifeng Zhang
ID 14		ent of Environmental Engineering, Technical University of Denmark, Lyngby, Denmark
ID 14		unities for visual techniques to determine characteristics and limitations of
		-active biofilms
		<u>sutels^{1,2}, João Pereira^{1,3}, Sam de Nooy^{1,3}, Annemiek ter Heijne³</u> , European Centre of Excellence for Sustainable Water Technology, Leeuwarden, the Netherlands
	vvetsus,	, Laropean centre of Excellence for Justamable water recimology, Leeuwarden, the Netherlands

	² Faculty of Science and Engineering, University of Groningen, Groningen, the Netherlands ³ Environmental Technology, Wageningen University, Wageningen, the Netherlands
ID 33	"Every advantage in the past is judged in the light of the final issue" - Performance and
	functional stability of <i>Geobacter</i> spp. dominated biofilm anodes under anaerobic
	digestion conditions
	Jörg Kretzschmar ¹ ,*, Daniel Dzofou Ngoumelah ^{1,2} , Falk Harnisch ²
	¹ DBFZ - German Biomass Research Centre, Leipzig, Germany
	² Dept of Environmental Microbiology, UFZ – Helmholtz-Centre for Env. Research, Leipzig, Germany
ID 114	Sprayable biofilm – Utilizing agarose hydrogels as 3D matrix for enhanced current
	production
	Melanie Knoll ¹ , Johannes Gescher ¹
	¹ University of Technology Hamburg (TUHH), Institute of Technical Microbiology, Hamburg, Germany
ID 122	Exploring the energy storage capacity of biocathodes
	<u>Daniela Carrillo-Peña</u> ¹ , Guillermo Pelaz ¹ , Antonio Morán ¹ , Raúl Mateos ¹ and Adrián Escapa ²
	¹ Chemical and Env. Bioprocess Engineering Group, Natural Resources Inst (IRENA), University of Leon, Spain
	² Department of Electrical Engineering and Automatic Systems, University of Leon, Spain
ID 143	Exploring the metabolic "thermostat" of electroactive biofilms with microcalorimetry
	Pavlina Theodosiou¹ and Elizabeth Heidrich¹
	¹ Dept. of Environmental Engineering, School of Engineering, Newcastle University, UK
	FLASH ORAL PRESENTATIONS:
ID 217	Novel species identification and deep functional annotation of electrogenic biofilms,
	selectively enriched in microbial fuel cell (MFC) array
	Lukasz Szydlowski ^{1,2} , Jiri Ehlich ³ , Pawel Szczerbiak ² , Noriko Shibata ¹ , and Igor Goryanin ^{1,4,5}
	¹ Okinawa Institute of Science and Technology, Biological Systems Unit, Onna, Japan
	² Malopolska Centre of Biotechnology, Jagiellonian University, Krakow, Poland
	³ Brno University of Technology, Faculty of Chemistry, Brno, Czechia
	⁴ University of Edinburgh, School of Informatics, Edinburgh, UK
	⁵ Tianjin Institute for Industrial Biotechnology, Tianjin, China
12.20	14.20 LUNCU (Mines Poless Hetal)
13:30 -	14:30 LUNCH (Minoa Palace Hotel)

14:30 - 16:30	NETWORKING TIME – POSTER SWITCHING TIME (Group A to B)
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WEDNESDAY, 21		– SEPTEMBER – 2022	AFTERNOON SESSIONS
16:30 - 17:00		Coffee break & Poster Viewing (GROUP B)	
17:00 - 1	8:30	SESSION - 6A: Extracellular electron transfer proces	sses - III
(ROOM A	4)	Chairpersons: Jeffrey Gralnick and Robin Bonné	
ID 150	Subm	icromolar level additives boost microbial electrocata	alysis of <i>Geobacter</i>
	sulfur	reducens PCA by two orders of magnitude	
	Yoshihide Tokuou ¹ , <u>Akihiro Okamoto^{2,3}</u>		
	¹ Faculty of Life and Environmental Sciences, University of Tsukuba, Ibaraki, Japan		raki, Japan
	² Intl Center for Materials Nanoarchitectonics (WPI-MANA), Natl Inst. for Material Science, Ibaraki, Japan		
	³ Schoo	l of Chemical Sciences and Engineering, Hokkaido University, Kit	ta-ku, Sapporo, Hokkaido, Japan.
ID 155	Anom	aly detection narrowed down genes identified by w	hole mutant library screening
	with carbon electrode based high-throughput electrochemistry		nistry
	Wenyuan Huang ¹ ² , Xizi Long ¹ , Gaku Imamura ¹³ , Akihiro Okamoto ^{12*}		

	¹ International Center for Materials Nanoarchitectonics (WPI-MANA), National Institute for Materials		
	Science, Tsukuba, Japan ² Graduate School of Chemical Sciences and Engineering, Hokkaido University, Kita-ku, Sapporo, Japan		
	³ Graduate School of Information Science and Technology, Osaka University, Japan		
ID 162			
10 102	Hydrogenases are Essential for Mtr-Dependent 2,3-Butanediol Production During		
	Inward Electron Transfer		
	Kathryne C. Ford ^{1,2} , Nick Tefft ² , Nisha Jangir ² , Michaela TerAvest ²		
	¹ Department of Microbiology and Molecular Genetics, Michigan State University, USA		
ID 193	² Department of Biochemistry and Molecular Biology, Michigan State University, USA		
ID 133	Atomic structure of the OmcE cytochrome filament by cryo-electron microscopy Daniel		
	R. Bond¹, Allon Hochbaum²,³		
	¹ Dept of Plant and Microbial Biology, and BioTechnology Institute, University of Minnesota, MN, USA ² University of California, Irvine, Irvine, CA, USA		
	³ University of Virginia School of Medicine, Charlottesville, VA, USA		
	FLASH ORAL PRESENTATIONS:		
ID 158			
ID 136	Materials informatics approach combined with high-throughput electrochemistry to		
	model extracellular electron transport via electron shuttles		
	Takashi Fuikawa¹, Ryo Tamura¹,², Gaku Imamura¹,³ and Akihiro Okamoto¹,⁴		
	¹National Institute for Materials Science, Japan		
	² Graduate School of Frontier Sciences, The University of Tokyo, Japan		
	³ Graduate School of Information Science and Technology, Osaka University, Japan		
ID 170	Graduate School of Chemical Sciences and Engineering, Hokkaido University, Hokkaido, Japan		
וט דעו	Corrosion of metallic iron by methanogens: the dual role of soluble CO ₂ as a substrate		
	and reactant for H ₂ production		
	<u>loannis Vyrides</u> ¹ , Despina Constantinou ¹ , Charis Samanides ¹ , Maria Andronikou ¹		
ID 470	¹ Dept of Chemical Engineering, Cyprus University of Technology, Limassol, Cyprus.		
ID 179	Inward electron transfer in <i>S. oneidensis</i> : A thermodynamic barrier		
	Shaylynn Miller and Michaela TerAvest		
17.00 1	Affiliation: Michigan State University, East Lansing, MI, USA.		
17:00 - 1			
(ROOM E			
ID 66	"Ηλεκτροχημικό άγγιγμα Μίδας – The electrochemical Midas touch" Scalability of the		
	Kolbe electrolysis to pilot scale		
	<u>Luis F.M.Rosa</u> , Katharina Neubert, Falk Harnisch [*]		
	UFZ – Helmholtz-Centre for Environmental Research, Dept of Env. Microbiology, Leipzig, Germany		
ID 77	Multi-scale modelling and design of mec for experimentally improving the energy		
	efficiency of sewage treatment		
	Serge Da Silva ¹ , Rémy Lacroix ¹ , Lorenzo Cristiani ² , Emma Roubaud ² , Luc Etcheverry ² , Alain		
	Bergel ² , Régine Basseguy ² , Benjamin Erable ²		
	¹ 6T-MIC Ingénieries, Castanet-Tolosan, France		
	² Laboratoire de Génie Chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France		
ID 89			
10 03	Cellulose based fungal battery		
10 83	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav		
10 65	<u>Carolina Reyes¹</u> , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2}		
10 83	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2} ¹ Laboratory for Cellulose and Wood Materials, Empa, Dübendorf, Switzerland		
15 65	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2} ¹ Laboratory for Cellulose and Wood Materials, Empa, Dübendorf, Switzerland ² Department of Health Science and Technology, ETH Zürich, Zürich, Switzerland		
	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2} ¹ Laboratory for Cellulose and Wood Materials, Empa, Dübendorf, Switzerland ² Department of Health Science and Technology, ETH Zürich, Zürich, Switzerland ³ Laboratory for Cellulose and Wood Materials, Empa, Gallen, Switzerland		
ID 111	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2} ¹ Laboratory for Cellulose and Wood Materials, Empa, Dübendorf, Switzerland ² Department of Health Science and Technology, ETH Zürich, Zürich, Switzerland ³ Laboratory for Cellulose and Wood Materials, Empa, Gallen, Switzerland Modification of carbon electrodes with redox mediators and its diazonium salts for		
	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2} ¹ Laboratory for Cellulose and Wood Materials, Empa, Dübendorf, Switzerland ² Department of Health Science and Technology, ETH Zürich, Zürich, Switzerland ³ Laboratory for Cellulose and Wood Materials, Empa, Gallen, Switzerland Modification of carbon electrodes with redox mediators and its diazonium salts for MFC improvement		
	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2} ¹ Laboratory for Cellulose and Wood Materials, Empa, Dübendorf, Switzerland ² Department of Health Science and Technology, ETH Zürich, Zürich, Switzerland ³ Laboratory for Cellulose and Wood Materials, Empa, Gallen, Switzerland Modification of carbon electrodes with redox mediators and its diazonium salts for MFC improvement Silvia Sato-Soto ¹ , Kaho Yamada ² , Toshikazu Fukushima ² , Seiya Tsujimura ¹		
	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2} ¹ Laboratory for Cellulose and Wood Materials, Empa, Dübendorf, Switzerland ² Department of Health Science and Technology, ETH Zürich, Zürich, Switzerland ³ Laboratory for Cellulose and Wood Materials, Empa, Gallen, Switzerland Modification of carbon electrodes with redox mediators and its diazonium salts for MFC improvement Silvia Sato-Soto ¹ , Kaho Yamada ² , Toshikazu Fukushima ² , Seiya Tsujimura ¹ ¹ Division of Materials Science, Faculty of Pure and Applied Science, University of Tsukuba, Japan		
	Carolina Reyes ¹ , Alexandre Poulin ¹ , Javier Ribera ³ , Francis W.M.R. Schwarze ³ , Gustav Nyström ^{1,2} ¹ Laboratory for Cellulose and Wood Materials, Empa, Dübendorf, Switzerland ² Department of Health Science and Technology, ETH Zürich, Zürich, Switzerland ³ Laboratory for Cellulose and Wood Materials, Empa, Gallen, Switzerland Modification of carbon electrodes with redox mediators and its diazonium salts for MFC improvement Silvia Sato-Soto ¹ , Kaho Yamada ² , Toshikazu Fukushima ² , Seiya Tsujimura ¹		

ID 40	Development of Innovative Soil Microbial Fuel Cells for Energy Harvesting	
	<u>Jakub</u>	Dziegielowski ¹ , Mirella Di Lorenzo ¹
	¹ Depar	tment of Chemical Engineering and Centre for Biosensors, Bioelectronics & Biodevices (C3Bio),
	Univers	sity of Bath, Claverton Down, UK
ID 65	Meml	brane-Catholyte Selection for Microbial Electrolysis Cells for Brewery Wastewater
	Treati	ment
	Isaac \	/ázquez¹, Oksana Bunk¹, Thomas Papyrin¹, Sven Kerzenmacher¹, Óscar Santiago¹
	¹ Cente	r for Environmental Research and Sustainable Technology (UFT), University of Bremen, Germany
ID 232	Poten	itial applications of a novel scalable rotating disk bioelectrochemical reactor
	(RDBE	ER)
	<u>Johani</u>	nes Eberhard Reiner ¹ , Max Hackbarth ¹ , Johannes Gescher ² and Harald Horn ¹
	¹ Engle	r-Bunte-Institute, Karlsruhe Institute of Technology, Germany
	² Institute of Technical Microbiology, University of Technology Hamburg, Germany	
		Conference GALA DINNER
19:15 - 2	3:30	Location: EUPHORIA hotel
		(Busses leave at 18:45 from MINOA PALACE the venue hotel)

THURSDA	AY, 22 – SEPTEMBER – 2022	MORNING SESSIONS
8:30 - 9:1	15 PLENARY LECTURE – ROOM A	
	Session Chairpersons: Nicolas Kalogerakis &	Abraham Esteve-Núñez
ID K-4	KEYNOTE #4: "Energetics of inward electron tra	
	Michaela A. TerAvest, Dept of Biochemistry and	
	University (USA)	William Biology, Whenigan State
	, , ,	
09:15 - 1:	•	
(ROOM A		assilev
ID I-6	Invited presentation:	
	Insights into the interactions of acetogenic bacter	ria with cathodes during microbial
	electrosynthesis	
	Jo Philips	
ID 05	Department of Biological and Chemical Engineering, Aarhus	
ID 05	Reduced overpotential of methane-producing bio	
	Micaela Brandão Lavender ^{1,2} , Siqi Pang ¹ , Dandan Liu ^{1,2}	, Ludovic Jourdin ⁺ and Annemiek ter
	Heijne ¹ ¹ Environmental Technology, Wageningen University, Wagen	ingen The Notherlands
	² Pagell B.V., Utrecht, The Netherlands .	ingen, the Netherlands
ID 17	Production of endotoxin-free biomass for feed an	d food applications by microbial
	electosynthesis	
	Antti Nyyssölä ¹ , Leo S. Ojala ¹ , Mikko Wuokko ^{1,2} , Gopal	l Peddinti ¹ . Anu Tamminen ¹ . Irina Tsitko ¹ .
	Emilia Nordlund¹ and Michael Lienemann¹	, , , , , , , , , , , , , , , , , , , ,
	¹ VTT Technical Research Centre of Finland Ltd., Finland	
	² Neste Engineering Solutions Ltd., Finland.	
ID 60	Carbon negative and electrode-driven value-adde	ed chemical productions from CO ₂ in a
	microbial electrosynthesis cell	
	Jung Rae Kim, Shuwei Li, Minsoo Kim, Eunseo Kim	
·	¹School of Chemical Engineering, Pusan National University,	
ID 78	The role of hydrogen for the performance of <i>Clost</i>	<i>tridium ljungdahlii</i> in microbial
	electrosynthesis	12
	Santiago T. Boto ^{1,2} , Falk Harnisch ³ , Miriam A. Rosenba	
	¹ Leibniz Institute for Natural Product Research and Infection ² Faculty of Biological Sciences, Friedrich Schiller University, J	· · · · · · · · · · · · · · · · · · ·
	³ UFZ – Helmholtz-Centre for Environmental Research GmbH	· · · · · · · · · · · · · · · · · · ·
	FLASH ORAL PRESENTATIONS:	
ID 19	Promotion of biological nitrogen fixation by elect	ron donation from solid phase humin
	<u>Takuya Kasai^{1,2}</u> , Sujan Dey ² and Arata Katayama ^{1,2}	•
	¹ Institute of Materials and Systems for Sustainability, Nagoya	a University, Japan
	² Graduate School of Engineering, Nagoya University, Japan	
ID 23	Indoor CO ₂ as renewable carbon source: coupling	indoor CO₂ direct air capture to
	microbial electrosyntehsis technologies	
	Luis R. López ¹ , Paolo Dessí ¹ , Alba Cabrera-Codony, Pau	u Zamora ¹ , Bart Kraakman ² , M. Dolors
	Balaguer ¹ , Sebastià Puig	
	¹ LEQUIA, Institute of Environment, University of Girona, Giro	ona, Spain
ID 41	² Jacobs Engineering, Bristol, UK Microbial electrosynthesis of commodity chemica	als from CO: Progress and limitations
10 41	Miriam Fernández-Ávila Cobo ¹ , Babak Rezaei ² , Stepha	
	¹ Department Of Environmental Engineering, Technical Unive	
	² National Centre for Nano Fabrication and Characterization,	•

ID 227	Improvement of microbial electrosynthesis by pure homoacetogens using a low redox		
	potential mediator		
		a Fernanda Pérez-Bernal ¹ , <u>Elie Desmond Le-Quéméner¹</u> , Paul V. Bernhardt ² , Éric Trably ¹	
		Nicolas Bernet ¹ .	
		University of Montpellier, INRAE, Narbonne, France	
	² School of Chemistry and Molecular Biosciences, University of Queensland, Brisbane, Australia		
09:15 - 1			
(ROOM E	B)	Chairpersons: Luis Rosa & Marika Kokko	
ID I-7	Invit	ed presentation:	
	Integ	gration of bioelectrochemical systems to the biorefinery concept in Uruguay	
	Ánge	ela Cabezas	
	Institu	uto Tecnológico Regional Centro Sur, Universidad Tecnológica, Durazno, Uruguay	
ID 22	Elect	ricity-driven ammonium accumulation into microbial protein	
	<u>Narci</u>	is Pous ¹ , M. Dolors Balaguer ¹ , Silvio Matassa ² , Paola Chiluiza-Ramos ³ , Lluis Bañeras ³ and	
	Sebas	stià Puig ¹	
		ratory of Chemical and Environmental Engineering (LEQUIA), University of Girona, Spain	
		artment of Civil and Mechanical Engineering, University of Cassino and Southern Lazio, Italy	
ID 27		up of Molecular Microbial Ecology, Institute of Aquatic Ecology, University of Girona, Spain	
ID 27	l	rochemical recycling acetate and ammonia from wastewater and valorization into	
		e cell protein by brewer's yeast	
	· ·	ei Zeng ¹ , Yifeng Zhang ¹	
ID 145		artment of Environmental Engineering, Technical University of Denmark, Denmark	
ID 145		ards practical application of microbial electrochemical snorkel for metal removal	
	l	recovery o Mitov ^{1,2} and Yolina Hubenova ^{3,4}	
		vative Center for Eco Energy Technologies, South-West Univ. "Neofit Rilski", Blagoevgrad, Bulgaria	
		artment of Chemistry, South-West University "Neofit Rilski", Blagoevgrad, Bulgaria	
		cute of Electrochemistry and Energy Systems "Acad. Evgeni Budevski", IEES- BAS, Sofia, Bulgaria	
	⁴Depa	rtment of Biochemistry and Microbiology, Plovdiv University "Paisii Hilendarski", Plovdiv, Bulgaria	
ID 185	Com	bining mixed culture-based polyhydroxyalkanoates production with microbial	
	elect	rochemical technologies	
		<u>Salvatori</u> , Matteo Di Luzio, Angela Marchetti, Lionel Tayou Nguemna, Mauro Majone,	
		anna Villano	
		rtment of Chemistry, Sapienza University of Rome, Italy H ORAL PRESENTATIONS:	
ID 28			
10 20	_	as to edible single-cell protein in a bioinorganic electrosynthesis system yi Xu¹, Dan Zhao¹, Yifeng Zhang¹,	
	_	of Environmental Engineering, Technical University of DenmarkKongens Lyngby, Denmark	
ID 61		Im suppression and bacteria killing on stainless steel based on electrochemical	
	appr		
		ammed Y. Emran ¹ , Waheed Miran ¹ , and Akihiro Okamoto ^{1,2}	
		rnational Center for Materials Nanoarchitectonics (WPI-MANA), National Institute for Materials,	
	l .	ba, Japan	
	² Grad	duate School of Chemical Sciences and Engineering, Hokkaido University, Kita-ku, Sapporo, Japan	
ID 99		vel, electricity- and carbon dioxide-powered microbial electrochemical system to	
		act iron on mars and earth	
		ine Carissimo ¹ , Sven Kerzenmacher ¹ , Jan-Henning Dirks ² , Michael W. Friedrich ³ and	
	l	aume Pillot ¹	
		ronmental Process Engineering research group, Center for Environmental Research and Sustainable	
		nology, University of Bremen, Germany ogical Structures and Biomimetics research group, Biomimetics-innovation-Center, Hochschule	
		ogical Structures and Biomimetics research group, Biomimetics-Innovation-Center, Hochschule en – City University of Applied Sciences, Germany	
		obial Ecophysiology research group, University of Bremen, Germany	

	T		
ID 127		lectrochemical system for flexible biogas production	
		k R. Weiler ¹ , Melanie T. Knoll ¹ , Nikolai Jürgensen ² , An-Ping Zeng ² , Johannes Gescher ¹	
		tute of Technical Microbiology, University of Technology Hamburg, Hamburg, Germany	
ID 200	² Institute of Bioprocess and Biosystems Engineering, Univ. of Technology Hamburg, Hamburg, Germany		
ID 200	The metabolic tuning of mixed purple phototrophic bacteria biofilms in heterotrophic		
		litions through microbial photo- electrosynthesis	
		az-Rullo Edreira ¹ , A. Prado ² , I.A. Vasiliadou ³ , JJ. Espada ¹ , R. Wattiez ⁴ , B. Leroy ⁴ , F.	
		ínez¹, <u>D. Puyol¹</u>	
		mical and Environmental Engineering Group (GIQA), Universidad Rey Juan Carlos, Madrid, Spain	
		cric Engineering Area, Polytechnic University of Cartagena, Cartagena, Spain	
	-	artment of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece aratory of Proteomics and Microbiology, University of Mons, Mons, Belgium	
ID 211		il – Electro-active artificial soil for soil-less farming: nutrients cycling from food-	
10 211		, ,	
		stry wastewaters	
		anni Rusconi Clerici ² , Paolo Bombelli ¹ , Federico Körner ¹ , Stefano Pierpaolo Trasatti ¹ ,	
		nio Idá³, Abraham Esteve Núñez², Andrea Schievano¹	
		artment of Environmental Science and Policy, University of Milan, Italy tute IMDEA agua, Alcalà de Henares, Spain	
		ria srl, via Bergognone, Milano, Italy	
	Aigai	a 311, via beigognone, iviliano, italy	
11:00 - 1	1:30	Coffee break & Poster Viewing (GROUP B)	
		Construction of Construction of	
11:30 - 1	3:30	SESSION – 8A: Microbial electrochemical synthesis & electro-fermentation-II	
(ROOM A		Chairpersons: Angela Cabezas & Silvia Bolognesi	
ID I-8		ed presentation:	
		comusa ovata for bioelectrochemical acetate production	
		a Madjarov ^{1,2} , Catarina M. Paquete ¹ , Nils Rohbohm ² , Gonçalo Pereira ¹ , Bruno M. Fonseca ¹ ,	
		us T. Angenent ² and Ricardo O. Louro ¹	
	_	de Tecnologia Química e Biológica António Xavier (ITQB), Universidade Nova Lisboa, Oeiras, Portugal	
		ronmental Biotechnology Group, Department of Geosciences, University of Tübingen, Germany	
ID 118		ming in on the biocatalyst performance in biofilm-driven microbial Electrosynthesis	
		in Winkelhorst ¹ , Adrie Straathof ¹ , Ludovic Jourdin ¹	
		artment of Biotechnology, Technological University of Delft, The Netherlands	
ID 120		oonse of hydrogenic and methanogenic communities to power outages in	
	-	hanogenic biocathodes	
		ermo Pelaz ¹ , Daniela Carrillo-Peña ¹ , Raúl Mateos ¹ , Antonio Morán ¹ and Adrián Escapa ²	
		mical and Env. Bioprocess Engineering Group, Natural Resources Institute, University of Leon, Spain.	
	² Depa	artment of Electrical Engineering and Automatic Systems, University of Leon, Spain	
ID 124	Brev	very CO₂ sequestration through continuous electricity-driven bioproduction of	
	aceti	ic acid	
	Mou	mita Roy¹, Sunil A. Patil¹	
	¹ Dept	t of Earth and Environmental Sciences, IISER Mohali, SAS Nagar, Punjab, India	
ID 134	Micr	obial Electrosynthesis Powered by Intermittent Electricity	
	Joerg	S. Deutzmann ^a , Frauke Kracke ^a , Alfred M. Spormann ^{a, b}	
	_	artment of Civil and Environmental Engineering, Stanford University, Stanford, USA	
		artment of Chemical Engineering, Stanford University, Stanford, CA, USA	
		H ORAL PRESENTATIONS:	
ID 84		electro CO₂ recycling into ethanol	
		txell Romans-Casas¹, Elisabet Perona-Vico², Paolo Dessì¹, Lluis Bañeras², M. Dolors	
	Balag	guer ¹ Sebastià Puig ^{1*}	
	-		
	¹LEQ\	JiA. Institute of the Environment. University of Girona. Girona, Spain. M. Institute of Aquatic Ecology, University of Girona, Girona, Spain.	

ID 104	Methanol as a co-substrate with carbon dioxide enhances butyrate production in		
	microbial electrosynthesis		
	Hui Yao ¹ , Igor Vassilev ¹ , and Marika Kokko ¹		
	¹ Faculty of Engineering and Natural Sciences, Tampere University, Tampere, Finland		
ID 121	Alternating applied voltage speeds up electro-fermentation		
	<u>David Strik</u> ¹ , Claire Kooiman ¹ , Kasper de Leeuw ¹ , Rick Litecia ¹ , Merve Atasoy ^{1,2}		
	¹ Environmental Technology. Wageningen University & Research, the Netherlands		
	² Laboratory of Microbiology. Wageningen University & Research, the Netherlands		
ID 130	Artificial electron mediator and biofilm matrix derive electron transfer in CO ₂		
	electrosynthesis		
	Young Eun Song ^{1,2} , Abdelrhman Mohamed ³ , Changman Kim ⁴ , Minsoo Kim ¹ , Shuwei Li ¹ , Eric		
	Sundstrom ² , Haluk Beyenal ³ , and Jung Rae Kim ^{1,}		
	¹School of Chemical Engineering, Pusan National University, Geumjeong-Gu, Busan, Republic of Korea		
	² Advanced Biofuel and Bioproducts Process Development Unit, Lawrence Berkeley National Laboratory,		
	Emeryville, CA, USA The Gene and Linda Voiland School of Chemical Engineering and Bioengineering, Washington State		
	University, Pullman, WA, USA		
	⁴ Biotechnolgy and bioengineering, Chonnam National University, Buk-Gu, Gwangju, Republic of Korea		
11:00 - 1	2:30 SESSION – 8B: MET-based sensor technology		
(ROOM E	3) Chairpersons: Jörg Kretzschmar & Daniela Torruella		
ID I-9	Invited presentation:		
	New perspectives in microbial fuel cell technology for sensing applications		
	Mirella Di Lorenzo		
	Department of Chemical Engineering and Centre for Biosensors, Biosystems and Biodevices (C3Bio),		
	University of Bath, Bath, UK		
ID 11	Online monitored bioelectrochemical system for screening purposes in a commercial		
	photometer		
	André Gemünde ¹ and Dirk Holtmann ¹		
	¹ TH Mittelhessen University of Applied Sciences, Institute of Bioprocess Engineering and Pharmaceutical		
	Technology, Wiesenstraße 14, 35390 Giessen, Germany		
ID 43	Real-time environmental monitoring of contaminants using living electronic sensors		
	<u>Lin Su^{1,2,3}</u> , Joshua T. Atkinson ^{1,4} , Xu Zhang ¹ , George N. Bennett ^{1,5} , Jonathan J. Silberg ^{1,5,6} , and		
	Caroline M. Ajo-Franklin ^{1,3,7}		
	¹ Department of BioSciences, Rice University, 6100 Main Street, Houston, TX, USA ² State Key Laboratory of Bioelectronics, Southeast University, Nanjing, PR China.		
	³ Molecular Foundry, Lawrence Berkeley National Laboratory, Berkeley, CA, USA		
	⁴ Systems, Synthetic, and Physical Biology Graduate Program, Rice University, Houston, TX, USA		
	⁵ Dept of Chemical and Biomolecular Engineering, Rice University, Houston, TX, USA		
	⁶ Department of Bioengineering, Rice University, Houston, TX, USA.		
	⁷ Molecular Biophysics and Integrated Bioimaging Div., Lawrence Berkeley Natl Labo, Berkeley, CA, USA.		
ID 128	Sulfide as an electrochemical information channel for biosensing in Escherichia coli		
	Matthew D. Carpenter ^{1,2} , Xu Zhang ² , and Caroline M. Ajo-Franklin ^{2,3,4}		
	¹ Systems, Synthetic, and Physical Biology Graduate Program, Rice University, TX, USA		
	² Department of BioSciences, Rice University, TX, USA		
	³ Department of Bioengineering, Rice University, TX, USA ⁴ Department of Chemical and Biomolecular Engineering, Rice University, TX, USA		
ID 152	Electrochemical biosensor targeting <i>Porphyromonas gingivalis</i> from a saliva drop for		
15 152	home periodontitis diagnosis		
	Dan Luo ^{1,2} , Takashi Fujikawa ¹ and Akihiro Okamoto ^{1,2,*}		
	¹ National Institute for Materials Science, Tsukuba, Ibaraki, Japan		
	² Graduate School of Chemical Sciences and Engineering, Hokkaido University, Sapporo, Hokkaido, Japan		
ID 192	Microbial electrochemical sensors for detecting petroleum hydrocarbon spill: From lab		
	to outdoor experiences		
	and a supplier and a		

	Daniela Torruella-Salas ^{1,2} , Andres de Deus ^{1,2} , Antonio Berná ^{1,2} , Jesús Vázquez ² , Abraham	
	Esteve-Núñez ^{1,2}	
	¹ Departamento de Química Analítica, Química Física, e Ingeniería, Universidad de Alcalá, Madrid, Spain ² Nanoelectra S.L., Parque Tecnológico de la Universidad de Alcalá, Madrid, Spain	
ID 202	Smart IoT biosensing: Advanced microbial electrochemical sensor with remote	
	diagnosis capabilities	
	Antonio Berná¹, Jesús Vázquez² and Abraham Esteve-Núñez³	
	¹ IMDEA Water Institute, Madrid, Spain	
	² Nanoelectra S.L., Parque Tecnológico de la Universidad de Alcalá, Madrid, Spain	
	³ Universidad de Alcalá, Madrid, Spain	
13:30 - 14	30 LUNCH (Minoa Palace Hotel)	
14:30 - 16	NETWORKING TIME	

THURSD	THURSDAY, 22 – SEPTEMBER – 2022 AFTERNOON SESSIONS		
		Poster Viewing (GROUP B)	
		SESSION-9A: Microbial electrochemical synthesis & electro-fermentation-III Chairpersons: Marianna Villano and Laura Rovira	
ID 135	Elect Sara T Sunds Depar Biolog	ricity for driving carbon-efficient biomanufacturing via fermentations Tejedor-Sanz ^{1,2,3} , Eric T Stevens ⁴ , Maria L Marco ⁴ , Caroline M Ajo-Franklin ² and Eric strom ³ rtment of BioSciences, Rice University, Houston, TX, USA gical Nanostructures Facility, The MolecularFoundry, Lawrence Berkeley National Laboratory, USA need Biofuels Process Development Unit, Lawrence Berkeley National Laboratory, USA	
ID 154	Micro	obial electrosymbiosis for CO ₂ reduction using a co-culture of <i>Rhodobacter</i>	
	<u>Suma</u>	ulatus and Sporomusa ovata <u>In Bajracharya¹</u> , Adolf Krige ¹ , Leonidas Matsakas ¹ , Ulrika Rova ¹ , Paul Christakopoulos ¹ of Civil, Environmental and Natural Resources Engineering, Luleå University of Technology, Sweden	
ID 178	Alter	ed biofilm characteristics of Sporomusa ovata by ALE with the aim to improve the	
		lm formation on a cathode for MES	
¹ Dept of Biological and Chemical Engineering, Aarhus University, Denmark		e Vinther Grøn ¹ , Laura Muñoz ¹ , Tobias Sandfeld Jensen ² , Klaus Koren ² and Jo Philips ¹ of Biological and Chemical Engineering, Aarhus University, Denmark of Biology, Aarhus University, Denmark	
ID 223		-like electrodes overcome the biofilm-based paradigm for growing electroactive	
		ktonic Purple Phototrophic Bacteria	
		s Manchon, a,b Fernando Muniesa-Merino, a Daniel Serna, a Yeray Asensio, a Colin	
	Wardman, a,c and Abraham Esteve-Nuñeza,b		
		ersidad de Alcalá, Alcalá de Henares, Madrid, España	
		pelectra S.L., Madrid, Spain.	
		EA Water Institute, Alcalá de Henares, Madrid, Spain H ORAL PRESENTATIONS:	
ID 131		VIVALDI project: Integrating bio/electrochemistry in the emerging CO ₂ -based	
	indus		
		t Guisasola	
		COV, Dept d'Enginyeria Química, Biològica I Ambiental, Escola d'Enginyeria, UAB, Spain	

ID 213	Bioelectrochemical ammonia production by Acidithiobacillus ferrooxidans mutants
.5 225	with modified regulation of nitrogenase
	Atsushi Kouzuma, Shohei Yamada and Kazuya Watanabe
	School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Japan
ID 215	Elucidating factors necessary for extracellular electron transport in <i>E. coli</i>
.5 225	Lukas Kneuer ¹ , Johannes Gescher ¹
	¹ Institute of Technical Microbiology, Hamburg University of Technology (TUHH), Germany
17:00 - 1	
(ROOM E	
ID 115	Multiscale computational modelling as enabler for the rational design of microbial
10 113	electrosynthesis reactors for CO ₂ reduction to C2-C6 organics
	,
	Oriol Cabau-Peinado, Adrie J.J. Straathof and Ludovic Jourdin Dept of Biotechnology, Faculty of Applied Sciences, Delft University of Technology, the Netherlands
ID 132	Computational fluid dynamics as a tool to understand and mitigate mass difussion
10 132	
	issues in pilot-scale bioelectrochemical systems
	Rholand Jordi Navarro, Martí Cortada, Oscar Guerrero, Juan Antonio Baeza and Albert
	Guisasola Dept. of Chemical, Biological and Environmental Engineering, Univ. Autònoma de Barcelona, Spain
ID 148	Guidelines for the design of bioelectrochemical systems for ammonia recovery from
10 140	wastewater
	Mariella Belén Galeano ¹ , Zainab Ul Kausar ¹ , Mira Lotta Kristiina Sulonen ¹ , Mireia Baeza Labat ² , Juan Antonio Baeza ¹ and Albert Guisasola Canudas ¹
	¹ GENOCOV, Departament d'Enginyeria Química, Biològica i Ambiental, Escola d'Enginyeria, and
	² Departament de Química, Facultat de Ciències, Universitat Autònoma de Barcelona, Spain
ID 175	Optimization of soil microbial fuel cell: influence of feeding duration, electrode factors
	and diversity factor of uncontrolled mixed microbial communities
	Meshack Imologie Simeon ^{1,2} and Ruth Freitag ¹
	¹Chair of Process Biotechnology, School of Engineering Science, University of Bayreuth, Germany
	² Department of agricultural and Bioresources Engineering, Federal University of Technology, Minna
	FLASH ORAL PRESENTATIONS:
ID 32	A single-chamber bioelectrochemical system without an ion-exchange membrane for
	Power-to-X and basic research
	Nils Rohbohm ¹ , Tianran Sun ² , and Largus T. Angenent ¹
	Environmental Biotechnology, Center for Applied Geosciences, Univ. of Tübingen, Tübingen, Germany
	Laboratory of Soil Environmental Science and Technology, Research Center for Eco-Environmental
	Sciences, Chinese Academy of Sciences, Haidian, Beijing, PR China
ID 144	From CAD to Geobacter: 3D-printed spherical micro-anodes for use in
	bioelectrochemical systems
	George Papaharalabos ¹ , Elia Judith Martínez ¹ , Xiomar Gómez ¹ and Antonio Moran Palao ¹
	¹ Chemical and Environmental Bioprocess Engineering Group, Natural Resources Institute, University of
ID 167	León, León, Spain
ID 107	Bacterial imprinting with <i>G. sulfurreducens</i> for next generation microbial
	electrochemical technologies
	Jack Reeder ¹ , Liz Heidrich ¹ , Matt Unthank ² , Marloes Peeters ¹ Newcastle University, School of Engineering, Merz Court, Newcastle upon Tyne, UK
	² Northumbria University, Dept of Applied Sciences, Newcastle upon Tyne, UK
ID 172	Improving microbial desalination cell performance by cathode modification using
15 172	BiOCI/gCN as electro-catalyst
	•
	Sadik Rahman ¹ , Noor Juma ¹ , Md. Abdullah Al-Mamun ¹ and Ahmad Sana ¹
ID 455	Dept of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman
ID 177	Novel Design of Microbial Desalination Cell for Acid-Base Recovery
	Abdullah Al-Mamun, Azhar Al Hinai

	Depart	ment of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman
18:30 - 19:00		Coffee break & Poster removal (GROUP B)

19:00 - 19:45	CLOSING PLENARY— ROOM A Session Chairpersons: Nicolas Kalogerakis & Abraham Esteve-Núñez
ID K-5	KEYNOTE#5: "METs for a sustainable future of water sector: case studies of real implementation",
	Juan M. Ortiz, IMDEA WATER, Technological Park of University of Alcala, Alcalá de Henares, Madrid (Spain)

19:45 - 20:15	State of ISMET, ISMET Fellows & ISMET Awards (Falk Harnisch)
20:15 - 20:30	CLOSING CEREMONIES & CONFERENCE AWARDS (Best POSTER & Best ORAL by a Graduate Student)
20:30	END OF CONFERENCE

FRIDAY, 23 – SE	PTEMBER – 2022
08:00-18:00	Conference trip Knossos (option 1) or Rethymno (option 2)

Conference Programme



(as of September 13, 2022)

POSTER PRESENTATIONS

Poster Group A: Tuesday all day & Wednesday morning
Poster Group B: Wednesday afternoon & Thursday all day

POSTER GROUP A

POST	ER GROUP A
T1 Bio	remediation, resource recovery and water treatment
ID 10	Sustainable Remediation of landfill leachate Contamination by utilizing a Bio-
	Electrochemical System (BES)
	Altaf AlBaho ¹ , Rory Doherty ² , Deepak Kumaresan ³ , Caroline Gauchotte-Lindsay ⁴ , Jonathan
	Gregg ⁵
	¹ Queen's University of Belfast, SNBE, Belfast, UK, ² Queen's University of Belfast, SNBE, Belfast, UK,
	³ Queen's University of Belfast, SBS, Belfast, UK, ⁴ University of Glasgow, SE, Glasgow, UK,
	⁵ Queen's University of Belfast, SNBE, Belfast, UK.
ID 16	The potential of microbial electrochemical systems for martian in situ resource utilization
	Tiago P. Ramalho ^{1,2} , Antoine Carissimo ¹ , Sven Kerzenmacher ¹ , Cyprien Verseux ² and Guillaume
	Pillot ¹
	¹ Center for Environmental Research and Sustainable Technology (UFT), Univ. of Bremen, Bremen, Germany
	² Center of Applied Space Technology and Microgravity (ZARM), Univ. of Bremen, Bremen, Germany
ID 25	Effect of hydraulic conditions on PFR reactors with electro-conductive filterbeds to
	improve OC degradation
	Annegret Budach ¹ , Amanda Prado de Nicolás ² , Abraham Esteve Nuñez ² , Anja Miltner ¹ and
	Matthias Kästner ¹
	¹ Dept of Environmental Biotechnology, Helmholtz Centre for Environmental Research - UFZ, Germany
	² Dept of Analytical Chemistry, Physical Chemistry and Chemical Engineering, University of Alcalá, Spain.
ID 35	Effect of organic loading rate on wastewater treatment and energy generation in a scaled-
	up MFC
	Ana Carla Sorgato ¹ , Thamires Custódio Jeremias ¹ , Maria Ángeles Lobo-Recio ² , Fernanda Leite
	Lobo ³ , Flávio Rubens Lapolli ¹
	¹ Dept. of Sanitary and Environmental Engineering, Federal University of Santa Catarina, Brazil
	² Dept. of Energy and Sustainability, Federal University of Santa Catarina, Brazil

Impact of the inoculation strategy on the long-term performances of bioelectrochemical systems treating primary clarifier effluent Lazzillière Valentin ^{1,2} , de Fouchécour Florence ² , Bureau Chrystelle ² , Bouchez Théodore ² , Moscoviz Roman ¹ 1 SUEZ, Centre International de Recherche Sur l'Eau et l'Environnement (CIRSEE), Le Pecq, France 2 Université Paris-Saclay, INRAE, PROSE, Antony, France Inducing the biosurfactant synthesis and electricity generation from waste vegetable oil in air-cathode microbial fuel cell Aleksander de Rosset ¹ , Grzegorz Pasternak ¹ 1 Laboratory of Microbial Electrochemical Systems, Wroclaw University of Science and Technology, Poland. Indium recovery from 2 nd generation photovoltaic panels using the microbial fuel cell technology Theofilos Kamperidis ¹ , Asimina Tremouli ^{1,*} , Elias Couvas ¹ , Petros E. Tsakiridis ² , Emmanouella Remoundaki ² , Gerasimos Lyberatos ^{1,3} 1 School of Chemical Engineering, National Technical University of Athens, Athens, Greece 2 School of Mining and Metallurgical Engineering, National Technical University of Athens, Athens, Greece 3 Institute of Chemical Engineering Sciences (ICE-HT), Platani, Patras, Greece Crude oil biodegradation in Microbial Fuel Cells accompanied with biosurfactant synthesis Bartosz Widera ¹ , Grzegorz Pasternak ¹ 1 Laboratory of Microbial Electrochemical Systems, Dept of Process Engineering and Technology of Polymer and Carbon Materials, Wroclaw University of Science and Technology, Poland Heavy metal and ammonia mixture toxicity towards mixed electroactive biofilms Sam Settle ¹ , Richard Law ¹ and Elizabeth Heidrich ¹ 2 School of Engineering, Newcastle University, Newcastle-upon-Tyne, United Kingdom Stimulating the anaerobic biodegradation of petroleum hydrocarbons in soils with electrically conductive materials		³ Dept. of Hydraulic and Environmental Engineering, Federal University of Ceará, Braziλ
systems treating primary clarifier effluent Larzillière Valentini ^{1,2} , de Fouchécour Florence ² , Bureau Chrystelle ² , Bouchez Théodore ² , Moscoviz Roman ¹ SUEZ, Centre International de Recherche Sur l'Eau et l'Environnement (CIRSEE), Le Pecq, France 2 Université Paris-Saclay, INRAE, PROSE, Antony, France 1 Inducing the biosurfactant synthesis and electricity generation from waste vegetable oil ir air-cathode microbial fuel cell Aleksander de Rosset ¹ , Grzegorz Pasternak ¹ Laboratory of Microbial Electrochemical Systems, Wroclaw University of Science and Technology, Poland. 1 Indium recovery from 2 nd generation photovoltaic panels using the microbial fuel cell technology Theofilos Kamperidis ¹ , Asimina Tremouli ^{1,1} , Elias Couvas ¹ , Petros E. Tsakiridis ² , Emmanouella Remoundaki ² , Gerasimos Lyberatos ^{1,3} School of Chemical Engineering, National Technical University of Athens, Athens, Greece 3 School of Chemical Engineering, National Technical University of Athens, Athens, Greece 4 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 4 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 5 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 6 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 7 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 8 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 9 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 9 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 9 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 9 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 9 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 9 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 9 Institute of Chemical Engineering Sciences (ICE-H1), Platani, Patras, Greece 9 Instit	ID 53	
Larzillière Valentin¹², de Fouchécour Florence², Bureau Chrystelle², Bouchez Théodore², Moscoviz Roman¹ 1-SUEZ, Centre International de Recherche Sur l'Eau et l'Environnement (CIRSEE), Le Pecq, France 2-Université Paris-Saclay, INRAE, PROSE, Antony, France 1-Inducing the biosurfactant synthesis and electricity generation from waste vegetable oil in air-cathode microbial fuel cell Aleksander de Rosset¹, Grzegorz Pasternak¹ 1-Laboratory of Microbial Electrochemical Systems, Wroclaw University of Science and Technology, Poland. 1-Indium recovery from 2 nd generation photovoltaic panels using the microbial fuel cell technology Theofilos Kamperidis¹, Asimina Tremouli¹¹, Elias Couvas¹, Petros E. Tsakiridis², Emmanouella Remoundakl², Gerasimos Lyberatos¹³ 1-School of Chemical Engineering, National Technical University of Athens, Athens, Greece 1-School of Mining and Metallurgical Engineering, National Technical University of Athens, Athens, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering Sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering sciences (ICE-HT), Platani, Patras, Greece 1-Indium recovery from 2 nd genering sciences (ICE-HT), Platani, Patras, Greece 1-Indium recov	.5 55	· · · · · · · · · · · · · · · · · · ·
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3Institute of Chemical Engineering Sciences (ICE-HT), Platani, Patras, Greece Crude oil biodegradation in Microbial Fuel Cells accompanied with biosurfactant synthesis Bartosz Widera¹, Grzegorz Pasternak¹ ¹ Laboratory of Microbial Electrochemical Systems, Dept of Process Engineering and Technology of Polymer and Carbon Materials, Wroclaw University of Science and Technology, Poland Heavy metal and ammonia mixture toxicity towards mixed electroactive biofilms Sam Settle¹, Richard Law¹ and Elizabeth Heidrich¹ ¹ School of Engineering, Newcastle University, Newcastle-upon-Tyne, United Kingdom Stimulating the anaerobic biodegradation of petroleum hydrocarbons in soils with electrically conductive materials Carolina Cruz Viggi¹, Matteo Tucci¹, Marco Resitano¹, Valentina Palushi¹, Neda Amanat², Berardino Barbati², Marco Petrangeli Papini² and Federico Aulenta¹ ¹ Water Research Institute (IRSA), National Research Council (CNR), Montelibretti (RM), Italy ² Department of Chemistry, Sapienza University of Rome, Rome, Italy Extremophilic microbial consortium selected for the bioelectrochemical treatment of saline textile effluents containing recalcitrant azo dyes Sirine Saadaoui¹-2,³, Habib Chouchane¹, Ameur Cherif¹ and Benjamin Erable³ ¹Univ. Manouba, ISBST, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia ² Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos¹, Luc Etcheverry¹, Benjamin Erable¹		
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1 Laboratory of Microbial Electrochemical Systems, Dept of Process Engineering and Technology of Polymer and Carbon Materials, Wroclaw University of Science and Technology, Poland D 92 Heavy metal and ammonia mixture toxicity towards mixed electroactive biofilms Sam Settle¹, Richard Law¹ and Elizabeth Heidrich¹ ¹ School of Engineering, Newcastle University, Newcastle-upon-Tyne, United Kingdom D 98 Stimulating the anaerobic biodegradation of petroleum hydrocarbons in soils with electrically conductive materials Carolina Cruz Viggi¹, Matteo Tucci¹, Marco Resitano¹, Valentina Palushi¹, Neda Amanat², Berardino Barbati², Marco Petrangeli Papini² and Federico Aulenta¹ ¹ Water Research Institute (IRSA), National Research Council (CNR), Montelibretti (RM), Italy ² Department of Chemistry, Sapienza University of Rome, Rome, Italy D 113 Extremophilic microbial consortium selected for the bioelectrochemical treatment of saline textile effluents containing recalcitrant azo dyes Sirine Saadaoui¹.²,²,³, Habib Chouchane¹, Ameur Cherif¹ and Benjamin Erable³ ¹ Univ. Manouba, ISBST, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia ² Faculty of Sciences of Tunis, University of Tunis El Manar, Tunis, Tunisia ³ Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. D 149 Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos¹, Luc Etcheverry¹, Benjamin Erable¹		
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Sam Settle¹, Richard Law¹ and Elizabeth Heidrich¹ ¹School of Engineering, Newcastle University, Newcastle-upon-Tyne, United Kingdom Stimulating the anaerobic biodegradation of petroleum hydrocarbons in soils with electrically conductive materials Carolina Cruz Viggi¹, Matteo Tucci¹, Marco Resitano¹, Valentina Palushi¹, Neda Amanat², Berardino Barbati², Marco Petrangeli Papini² and Federico Aulenta¹ ¹Water Research Institute (IRSA), National Research Council (CNR), Montelibretti (RM), Italy ²Department of Chemistry, Sapienza University of Rome, Rome, Italy Extremophilic microbial consortium selected for the bioelectrochemical treatment of saline textile effluents containing recalcitrant azo dyes Sirine Saadaoui¹²²³, Habib Chouchane¹, Ameur Cherif¹ and Benjamin Erable³ ¹Univ. Manouba, ISBST, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia ²Faculty of Sciences of Tunis, University of Tunis El Manar, Tunis, Tunisia ³Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos¹, Luc Etcheverry¹, Benjamin Erable¹		and Carbon Materials, Wroclaw University of Science and Technology, Poland
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Carolina Cruz Viggi¹, Matteo Tucci¹, Marco Resitano¹, Valentina Palushi¹, Neda Amanat², Berardino Barbati², Marco Petrangeli Papini² and Federico Aulenta¹ ¹Water Research Institute (IRSA), National Research Council (CNR), Montelibretti (RM), Italy ¹Department of Chemistry, Sapienza University of Rome, Rome, Italy Extremophilic microbial consortium selected for the bioelectrochemical treatment of saline textile effluents containing recalcitrant azo dyes Sirine Saadaoui¹,²,²,³, Habib Chouchane¹, Ameur Cherif¹ and Benjamin Erable³ ¹Univ. Manouba, ISBST, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia ²Faculty of Sciences of Tunis, University of Tunis El Manar, Tunis, Tunisia ³ Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. D 149 Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos¹, Luc Etcheverry¹, Benjamin Erable¹	ID 98	Stimulating the anaerobic biodegradation of petroleum hydrocarbons in soils with
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¹ Water Research Institute (IRSA), National Research Council (CNR), Montelibretti (RM), Italy ² Department of Chemistry, Sapienza University of Rome, Rome, Italy Extremophilic microbial consortium selected for the bioelectrochemical treatment of saline textile effluents containing recalcitrant azo dyes Sirine Saadaoui ^{1,2,3} , Habib Chouchane ¹ , Ameur Cherif ¹ and Benjamin Erable ³ ¹ Univ. Manouba, ISBST, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia ² Faculty of Sciences of Tunis, University of Tunis El Manar, Tunis, Tunisia ³ Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. D 149 Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos ¹ , Luc Etcheverry ¹ , Benjamin Erable ¹		Carolina Cruz Viggi ¹ , Matteo Tucci ¹ , Marco Resitano ¹ , Valentina Palushi ¹ , Neda Amanat ² , Berardino
2 Department of Chemistry, Sapienza University of Rome, Rome, Italy Extremophilic microbial consortium selected for the bioelectrochemical treatment of saline textile effluents containing recalcitrant azo dyes Sirine Saadaoui ^{1,2,3} , Habib Chouchane ¹ , Ameur Cherif ¹ and Benjamin Erable ³ ¹ Univ. Manouba, ISBST, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia ² Faculty of Sciences of Tunis, University of Tunis El Manar, Tunis, Tunisia ³ Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos ¹ , Luc Etcheverry ¹ , Benjamin Erable ¹		
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¹ Univ. Manouba, ISBST, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia ² Faculty of Sciences of Tunis, University of Tunis El Manar, Tunis, Tunisia ³ Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos¹, Luc Etcheverry¹, Benjamin Erable¹		· · · · · · · · · · · · · · · · · · ·
² Faculty of Sciences of Tunis, University of Tunis El Manar, Tunis, Tunisia ³ Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos ¹ , Luc Etcheverry ¹ , Benjamin Erable ¹		<u> </u>
 ³ Laboratoire de génie chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France. D 149 Two-stage process of dark fermentation and microbial electrolysis cells (MECs) for the bio-electroconversion of industrial wastewaters into hydrogen Silvia De los Santos¹, Luc Etcheverry¹, Benjamin Erable¹ 		
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Laboratorie de defile chimique, civis, rivi i, or 5, rodiod3e, riance		• • •
·	ID 157	Novel quadruple microbial desalination and chemical recovery cell (MDCRC) for enhanced
recovery and desalination	15 137	, , ,
Jagdeep Kumar Nayak ¹ , Sadik Rahman ¹ , Md. Abdullah Al-Mamun ¹ and Ahmad Sana ¹		,
*Department of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman		
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Edoardo Dell'Armi¹, Marco Zeppilli, Mauro Majone and Marco Petrangeli Papini		·
¹ "Sapienza" University of Rome, Department of Chemistry, Rome, Italy		
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Jaak Truu, Marika Truu, Kertu Tiirik		•
Institute of Molecular and Cell Biology, University of Tartu, Estonia		·

ID 166	Simultaneous azo dye and chromium removal from dyeing process effluent using Microbial Electrolysis Cells
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	<u>Daniel Farkas¹</u> , Mira Sulonen ¹ , Claudio Avignone-Rossa ¹ Patrick Jacobs ² and Alfredo Pérez de Mora ²
	¹ Systems Microbiology Laboratory, Dept. of Microbial Sciences, University of Surrey, UK
	² Dept. of Soil & Groundwater, TAUW GmbH, Berlin, Germany
	³ Dept. of Soil & Groundwater, TAUW GmbH, Munich, Germany
ID 171	Nitrate removal from groundwater by fluidized BES with conductive activated carbon and
	vitreous carbon
	Xiaofei Wang ^{1,2*} , Michiel Verheye ^{1,2} and Korneel Rabaey ^{1,2} ¹ Center for Microbial Ecology and Technology (CMET), Ghent University, Ghent, Belgium
	² Centre for Advanced Process Technology for Urban Resource Recovery (CAPTURE), Ghent, Belgium
ID 176	Which strategy is better for enhanced digestion of wastewater biosolids? Substrate pre-
	treatment or application of Anaerobic Digestion-Microbial Electrolysis Cell (AD-MEC)
	integrated system
	Mert Şanlı¹, Yasemin Dilsad Yilmazel¹
	¹ Department of Environmental Engineering, Middle East Technical University, Ankara, Turkey
ID 180	Nitrate recovery in groundwater and single cell protein production in an in-situ
	electrolyzer
	Yufeng Jiang, Yifeng Zhang
	Department of Environmental Engineering, Technical University of Denmark, Denmark
ID 191	Treating landfill leachate through natural clay adsorption (palygorskite): Leachate
	characterization and adsorption capacities
	Sajjad Ahmad Siddiqi ¹ , Abdullah Al-Mamun ¹ and Ahmad Sana ¹
ID 194	¹ Dept of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman
10 134	Isolation of electroactive hydrocarbon-degrading consortia for on-site groundwater electrobioremediation
	Martí Aliaguilla¹, Laura Huidobro¹, Pablo Sánchez-Cueto¹, Daniele Molognoni¹, Pau Bosch-
	Jimenez ¹ , David Gramunt ² , Alfredo Pérez-de-Mora ³ , and Eduard Borràs ¹
	¹ LEITAT Technological Center, C/ de la Innovació 2, Terrassa, Spain
	² TAUW Iberia SAU, Centre d'Empreses de Noves Tecnologies, Cerdanyola del Vallès, Spain
	³ TAUW GmbH, Dept. of Soil & Groundwater, Munich, Germany
ID 199	Growth inhibition of sulfate reducing bacteria by chitosan/lignosulfonate nanocomposite
	(CS@ LS) in sea inject water
	<u>Kashif Rasool</u> , Ravi P Pandey, P Abdul Rasheed, Tricia Gomez, Enas S Al-Absi, Gheyath K Nasrallah,
	Khaled A Mahmoud
	¹ Qatar Environment and Energy Research Institute (QEERI), Hamad Bin Khalifa University, Qatar Foundation, Doha, Qatar
	² Biomedical Research Center, Qatar University, Doha, Qatar
	³ Dept of Biomedical Science, College of Health Sciences, Qatar University, Doha, Qatar
ID 205	Optimization of bio-electrochemical ammonium oxidation by regulating the autotrophic-
	heterotrophic acclimation condition of anammox bacteria in bio-electrochemical system
	(BES)
	Wenjuan Zhao ¹ , Preetam Sharma ² , Eileen H Yu ² and Shuiliang Chen ¹
	¹ Dept of Chemistry and Chemical Engineering and Nanofiber Engineering, Jiangxi Normal University,
	Nanchang, China
ID 240	² Dept of Chemical Engineering, Loughborough University, UK
ID 210	Enrichment of electroactive formate-utilizing bacteria from ferruginous lake waters
	Astolfo Valero ^{1,2} , Daniel A. Petrash ^{1,3} , Falk Harnisch ⁴ , and Benjamin Korth ⁴ Soil and Water Research Infrastructure, Biology Centre of the Czech Academy of Sciences, Czechia
	· · · · · · · · · · · · · · · · · · ·
	³ Dept of Environmental Geochemistry and Biogeochemistry, Czech Geological Survey, Czechia
	⁴ Dept of Environmental Microbiology, Helmholtz Centre for Environmental Research – UFZ, Germany
	² Faculty of Science, University of South Bohemia, Czechia ³ Dept of Environmental Geochemistry and Biogeochemistry, Czech Geological Survey, Czechia

ID 212	Development of algal fuel cells for decolourisation of azo dyes
	Radwa Ibrahim ^{1,2} , Tajalli Keshavarz ¹ , Godfrey Kyazze ¹
	¹School of Life Sciences, University of Westminster, London, UK
ID 244	² Department of Botany and Microbiology, Alexandria University, Alexandria, Egypt.
ID 214	Bioelectrochemical ammonium removal from recirculating aquaculture system waters
	<u>Veera Koskue</u> ¹ , Thao Nguyen ¹ , Johannes Jermakka ^{1,2} and Marika Kokko ¹ Faculty of Engineering and Natural Sciences, Tampere University, Tampere, Finland
	² Tampere University of Applied Sciences, Tampere, Finland
ID 222	Ecotoxicity test batteries for the monitoring of bio-electrochemical system based
	remediation technologies
	Mónika Molnár¹, Zsófia Berkl¹, Éva Farkas¹, Ildikó Fekete-Kertész¹, Rita Márton¹, Imre Németh¹,
	Szabina Molnár ¹ , Emese Vaszita ¹ , Viktória Feigl ¹
	¹ Budapest University of Technology and Economics, Faculty of Chemical Technology and Biotechnology, Dept
	of Applied Biotechnology and Food Science, Hungary
ID 225	Comparing the efficiency of constructed wetlands for hydrocarbon removal amended
	with oxygen supply via in situ electrochemical production versus nanobubble injection.
	Petroula Seridou ¹ , M. Vamvakia ¹ , E. Syranidou ¹ , A. Vlysidis ¹ , N. Kalogerakis ¹
	¹ School of Chemical and Environmental Engineering, Technical University of Crete, Greece
ID 226	Coupled bioelectrochemical system with phytoremediation for metal removal from
	polluted groundwater
	Aqib Hassan Ali Khan ¹ , Blanca Velasco Arroyo ¹ , Martí Aliaguilla ² , Eduard Borràs ² , Carlos Rad ³ ,
	Carlos Rumbo ¹ , Andrea Martínez ³ , Sandra Curiel-Alegre, Juan Antonio Tamayo-Ramos ¹ , Sonia
	Martel ¹ , and Rocío Barros ¹
	¹ International Research Center in Critical Raw Materials for Advanced Industrial Technologies (ICCRAM),
	University of Burgos, Burgos, Spain. ² LEITAT Technological Center, Circular Economy Department, Terrassa, Spain
	³ Research Group in Composting (UBUCOMP). University of Burgos, Faculty of Sciences, Burgos Spain.
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ID 07	Electrochemically active biofilm on AISI 1020 steel and its corrosion potential
	Vitor da Silva Liduino, Eliana Flávia Camporese Sérvulo and Magali Christe Cammarota
	School of Chemistry - Federal University of Rio de Janeiro, Brazil
ID 38	"Natura nihil frustra facit – Nature does nothing in vain"
	How to screen efficiently for electroactive microorganisms?
	Anne Kuchenbuch ¹ , Ronny Frank ² , José Vazquez Ramos ² , Heinz-Georg Jahnke ² , Falk Harnisch ¹
	¹ UFZ – Helmholtz-Centre for Environmental Research, Dept of Env. Microbiology, Leipzig, Germany
	² Centre for Biotechnology and Biomedicine, Molecular biological-biochemical Processing Technology, Leipzig
	University, Leipzig, Germany
ID 58	Substrate Specific Current Enhancement in Alzheimer`s Pathogen Porphyromonas
	gingivalis
	<u>Divya Naradasu</u> ^a , Luo Dan ^a , Sotaro Takano ^a , Ariyoshi Wataru ^b and Akihiro Okamoto ^{a,c}
	^a Intl Center for Materials Nanoarchitectonics, National Institute for Materials Science, Ibaraki, Japan. ^b Division of Infections and Molecular Biology, Department of Health Promotion, Science of Health
	Improvement, Kyushu Dental University, Kitakyushu, Japan.
	^c Graduate School of Chemical Sciences and Engineering, Hokkaido University, Hokkaido, Japan
ID 64	Characterisation of methanogens utilizing formate as sole carbon source
	Björn Sabel-Becker ¹ , Marc Pfitzer ¹ , Dirk Holtmann ¹
	¹ Technische Hochschule Mittelhessen Gießen University of Applied Sciences, Dept of Life Science Engineering,
	Institute of Bioprocess Engineering and Pharmaceutical Technology, Germany
ID 67	Soil microorganisms facilitated the electrode-driven trichloroethene dechlorination to
	ethene by <i>Dehalococcoides</i> species in a bioelectrochemical system
	<u>Lingyu Meng</u> ¹ , Naoko Yoshida ¹ , Zhiling Li ² Department of Civil Engineering, Nagoya Institute of Technology (Nitech), Nagoya, Japan

	² State Key Lab of Urban Water Resources and Environment, School of Environment, Harbin Institute of Technology, Harbin, China
ID 73	Microorganisms enriched from soil in Sri Lanka as power producers in crude oil-fed MFC
.5 7 6	Natalia Tyszkiewicz and Grzegorz Pasternak
	Lab of Microbial Electrochemical Systems, Wrocław University of Science and Technology, Wrocław, Poland
ID 86	Shewanella loihica and the effect of temperature on its electrochemical performance
	Thessa Van Limbergen ¹ , Olivier Nouwen ² , Sofie Thijs ² , Jaco Vangronsveld ^{2,3} , Jean V. Manca ¹
	¹ UHasselt, X-LAB, Agoralaan, Diepenbeek, Belgium
	² UHasselt, Environmental biology, Centre for Environmental Sciences, Diepenbeek, Belgium
	³ Dept of Plant Physiology and Biophysics, Institute of Biological Sciences, MCS University, Lublin, Poland
ID 126	Microbial diversity in bioelectrochemical systems for CH4 production using different
	anode surfaces
	René Cardeña ^{1,2} , Gamaliel Ramirez-Ramirez ¹ , Angela Cabezas ² , Germán Buitrón ¹
	¹ Laboratory for Research on Advanced Processes for Water Treatment, Instituto de Ingeniería, Unidad
	Académica Juriquilla, Universidad Nacional Autónoma de México, México.
	² Instituto Tecnológico Regional Centro Sur, Universidad Tecnológica, Durazno, Uruguay.
ID 147	Metabolic engineering of Klebsiella pneumoniae for value-added chemical production
	Changman Kim ¹ , Gagyeong Park ¹ , Seorin Moon ¹ , Ha Rim, Chae ¹ , Jung Rae Kim ²
	¹ Dept of Biotechnology and Bioengineering, Chonnam National University, Republic of Korea
ID 153	² School of Chemical and Biomolecular Engineering, Pusan National University, Republic of Korea.
ID 133	Physiology of <i>Synechocystis</i> sp. PCC 6803 under BPV conditions
	Hans Schneider, Bin Lai and Jens O. Kroemer ¹ Department of Solar Materials, Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany
ID 173	The impact of substrate cross-feeding on microbial population dynamics and performance
ID 173	
	of electromethanogenic reactors Amin Ghaderikia¹, Bilgin Taskin², <u>Yasemin Dilsad Yilmazel¹</u> ,*
	¹ Dept of Environmental Engineering, Middle East Technical University, Ankara, Turkey
	² Dept of Agricultural Biotechnology, Van Yuzuncu Yil University, Van, Turkey.
ID 182	External resistance regulates current generation and metabolite profile in microbial fuel
	cells operating with <i>Pseudomonas aeruginosa</i> strains
	Ana Clara Bonizol Zani ¹ , Erica Janaína Rodrigues de Almeida ¹ , João Pedro Rueda Furlan ² , Eliana
	Guedes Stehling ² , Adalgisa Rodrigues de Andrade ¹ , and Valeria Reginatto ¹ .
	¹ Dept. of Chemistry - University of São Paulo, Brazil
	² Faculty of Pharmaceutical Science at Ribeirão Preto -University of São Paulo - Brazil
ID 195	Enrichment of exoelectroactive butyrate-oxidizing biocatalyst for hydrogen
	production from percolate in a microbial electrolysis cell
	Ahmed Elreedy, Mahshid Golalikhani, Johannes Gescher
	Institute of Technical Microbiology, Hamburg University of Technology, Hamburg, Germany
ID 216	A zero-gap electrolyzer for methanogenic carbon dioxide (CO ₂) reduction using a
	wastewater-based electrolyte
	Ramineh Rad ^{1,3} , Tito Gehring ² , Edith Nettmann ² , Marc Wichern ² , Ulf-Peter Apfel ^{1,3}
	¹ Ruhr University Bochum, Inorganic Chemistry I, Bochum, Germany
	² Ruhr University Bochum, Urban Water Management and Environmental Technology, Bochum, Germany
10.220	³ Fraunhofer UMSICHT, Oberhausen, Germany
ID 229	Novel electron transfer pathways in <i>Cupriavidus necator</i>
	Oliver Lenz ¹ , Stefan Frielingsdorf ¹ , <u>Elena Rossini</u> ¹
=	¹Technische Universität Berlin, Department of Chemistry, Berlin, Germany
	aterial science and reactor design
ID 15	Cellophane as an alternative separator for MEC operation with anaerobic digester
	effluent
	Simone Colantoni ¹ , Óscar Santiago ¹ , Sven Kerzenmacher ¹
	¹ Center for Env. Research and Sustainable Technology (UFT), University of Bremen, Bremen, Germany

ID 26	Efficient hydrogen production in a microbial photoelectrochemical cell with Cu₂O
	photoelectrode
	Michele Morgante ¹ , Nick Vlachopoulos ² , Anders Hagfeldt ³ , Christos Comninellis ⁴ , Kevin Sivula ⁵ , Fabian Fischer ^{1,6}
	¹ Inst. of Life Technologies, HES-SO Valais, Univ. of Applied Sciences Western Switzerland, Sion, Switzerland
	² Lab of Photomolecular Science, Inst. of Chemical Sciences and Engineering, EPFL, Lausanne, Switzerland
	³ Dept of Chemistry, Angstrom Laboratory, Uppsala University, Uppsala, Sweden
	⁴ Institute of Chemical Sciences and Engineering, EPFL, Lausanne, Switzerland
	⁵ Lab for Molecular Engineering of Optoelectronic Nanomaterials, Inst. of Chemical Sciences and Engineering, EPFL, Lausanne, Switzerland
	⁶ Inst. of Sustainable Energy, HES-SO Valais, Univ. of Applied Sciences Western Switzerland, Sion, Switzerland
ID 29	Electrodes from green waste for bioelectrochemical systems
	Alexander Langsdorf ¹ , Tim Nicklas Crienitz ¹ , Marianne Volkmar ² , Markus Stöckl ³ , Roland Ulber ² ,
	Dirk Holtmann ¹
	¹ Inst. of Bioprocess Engineering and Pharm. Technology, Univ. of Applied Sciences Mittelhessen, Germany
	² Institute of Bioprocess Engineering, University of Kaiserslautern, Germany
	³ Dept of Chemical Technology, DECHEMA Research Institute, Germany
ID 45	Graphite felt/Cobalt oxide/Polyaniline composite modified anodes for power generation
	in Soil Microbial Fuel Cells
	Simran Kaur Dhillon ^{1,2} , Patit Paban Kundu ^{1*} , Mirella Di Lorenzo ^{2*}
	¹ Dept of Chemical Engineering, Indian Institute of Technology – Roorkee, India
	² Dept of Chemical Eng. and Centre for Biosensors, Bioelectr. & Biodevices (C3Bio), Univ. of Bath, Claverton Down, UK
ID 46	Understanding the Effects of Kinetic Limitations on Degradation Rates for Different
	Substrates in Microbial Fuel Cells (MFCs)
	Hannah Bird¹, Elizabeth Heidrich¹, Sharon Velasquez-Orta¹
	¹School of Engineering, Newcastle University, Newcastle upon Tyne, UK
ID 90	Improvement of the start-up time and acetate productivity of microbial electrosynthesis
	improvement of the start up time and account productivity of information discussion,
	cell using polyaniline (PANI/GF) modified graphite felt electrode
	cell using polyaniline (PANI/GF) modified graphite felt electrode Eunseo Kim¹, Minsoo Kim¹, Shuwei Li², Jung Rae Kim¹ ¹School of Chemical Engineering, Pusan National University, Busan, Republic of Korea
ID 117	cell using polyaniline (PANI/GF) modified graphite felt electrode Eunseo Kim¹, Minsoo Kim¹, Shuwei Li¹, Jung Rae Kim¹ ¹School of Chemical Engineering, Pusan National University, Busan, Republic of Korea CO₂ electro-recycling and energy production: a comparison between naturally doped
	cell using polyaniline (PANI/GF) modified graphite felt electrode Eunseo Kim¹, Minsoo Kim¹, Shuwei Li¹, Jung Rae Kim¹ ¹School of Chemical Engineering, Pusan National University, Busan, Republic of Korea CO₂ electro-recycling and energy production: a comparison between naturally doped biochar-base electrodes
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Effect of different cathode potentials on the performance of CO2-reducing methanogenic biocathodes Sabine Spiess, Sarah Haneschläger, Clemens Habermaier, Amaia Sasiain, Marianne Haberbauer K1-MET GmbH, Linz, Austria ID 91 Colorimetric isolation of a novel electrochemically active Pseudomonas strain using tungsten nanorods for bioelectrochemical applications Himanshu Khandelwal*, Sakuntala Mutyala*, Minsoo Kim*, Young Eun Song*, Shuwei Li*, Min Jang*, Sang- Eun Oh*, Jung Rae Kim* *School of Chemical Engineering, Pusan National University, Republic of Korea *Advanced Biofuel and Bioproducts Process Development Unit, Lawrence Berkeley Natl Lab, Emeryville, USA *Dept of Environmental Engineering, Ewangwoon University, Nowon-Gu, Seoul, Republic of Korea *Poept of Biological Environment, Kangwon National University, Chuncheon, Gangwondo, Republic of Korea *Poept of Blootechal Environment, Kangwon National University, Chuncheon, Gangwondo, Republic of Korea *QPCR analysis for the metabolic shift of Klebsiealla pneumoniae L17 with glycerol substrate under oxidation of zero-valent iron *Da Seul Kong*, Changman Kim*3, Eun Joo Park*, Mutyala Sakuntala* and Jung Rae Kim* *School of Chemical Engineering, Pusan National University, Busan, Korea *Advanced Biofuel and Bioproducts Process Development Unit, Lawrence Berkeley Natl Lab, Emeryville, USA *Dept of Biotechnology and Bioengineering, Chonnam National University, Gwangju, Republic of Korea *ID 106 *Microbial & Electrochemical CO2 Reduction for Synthesis is alike Cupid & Psyche? *Paniz Izadi* and Falk Harnisch* *Dept of Environmental Microbiology, Helmholtz-Centre for Environmental Research - UFZ, Leipzig, Germany *Enrichment and characterization of pharmaceutical-tolerant microbial communities in microbial electrochemical Systems *Razieh Rafieenia *, Mohamed Mahmoud *, Fatma El-Gohary *, and Claudio Avignone Rossa* *Dept of Environmental Microbiology, Helmholtz-Centre for Environmental Group Department of Environmental Foreins in Diacha Systems *Razieh		
Sabine Spiess, Sarah Haneschläger, Clemens Habermaier, Amaia Sasiain, Marianne Haberbauer K1-MET GmbH, Linz, Austria Colorimetric isolation of a novel electrochemically active Pseudomonas strain using tungsten nanorods for bioelectrochemical applications Himanshu Khandelwal*, Sakuntala Mutyala*, Minsoo Kim*, Young Eun Song*, Shuwei Li*, Min Jang*, Sang- Eun Oh*, Jung Rae Kim*.* *School of Chemical Engineering, Pusan National University, Republic of Korea *Advanced Biofuel and Bioproducts Process Development Unit, Lawrence Berkeley Natl Lab, Emeryville, USA *Dept of Environmental Engineering, Rwangwoon University, Nown-Gu, Seoul, Republic of Korea *Pept of Biological Environment, Kangwon National University, Chuncheon, Gangwondo, Republic of Korea *Pept of Biotogical Environment, Kangwon National University, Chuncheon, Gangwondo, Republic of Korea *Pept of Biotochemical Engineering, Pusan National University, Chuncheon, Gangwondo, Republic of Korea *Pept of Biotochemical Engineering, Pusan National University, Busan, Korea *Advanced Biofuel and Bioproducts Process Development Unit, Lawrence Berkeley Natl Lab, Emeryville, USA *Dept of Biotochenology and Bioengineering, Chonnam National University, Gwangju, Republic of Korea *ID 106 Microbial & Electrochemical CO2 Reduction for Synthesis is alike Cupid & Psyche? *Paniz Izadi* and Falk Harnisch* *Dept of Environmental Microbiology, Helmholtz-Centre for Environmental Research - UFZ, Leipzig, Germany *ID 119 Enrichment and characterization of pharmaceutical-tolerant microbial communities in microbial electrochemical systems *Razieh Rafieenia* 1, Mohamed Mahmoud 2, Fatma El-Gohary 2, and Claudio Avignone Rossa* *Dept of Microbial Sciences, University of Surrey, Guildford, UK *Water Pollution Research Department, National Research Centre, Dokki, Cairo, Egypt *Dept of Microbial Sciences, University of Surrey, Guildford, UK *Water Pollution Research Department, National Research Centre, Dokki, Cairo, Egypt *ID 203 Graphene nanowalls as electr	ID 63	Effect of different cathode potentials on the performance of CO ₂ -reducing methanogenic
ID 91 Colorimetric isolation of a novel electrochemically active Pseudomonas strain using tungsten nanorods for bioelectrochemical applications Himanshu Khandelwal ^a , Sakuntala Mutyala ^a , Minsoo Kim ^a , Young Eun Song ^b , Shuwei Li ^a , Min Jang ^a , Sang- Eun Oh ^a , Jung Rae Kim ^a , School of Chemical Engineering, Pusan National University, Republic of Korea		biocathodes
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¹ School of Chemical Engineering, Pusan National University, Busan, Korea ² Advanced Biofuel and Bioproducts Process Development Unit, Lawrence Berkeley Natl Lab, Emeryville, USA ³ Dept of Biotechnology and Bioengineering, Chonnam National University, Gwangju, Republic of Korea ID 106 Microbial & Electrochemical CO ₂ Reduction for Synthesis is alike Cupid & Psyche? Paniz Izadi¹ and Falk Harnisch¹ ¹ Dept of Environmental Microbiology, Helmholtz-Centre for Environmental Research - UFZ, Leipzig, Germany ID 119 Enrichment and characterization of pharmaceutical-tolerant microbial communities in microbial electrochemical systems Razieh Rafieenia¹, Mohamed Mahmoud², Fatma El-Gohary², and Claudio Avignone Rossa¹ ¹ Dept of Microbial Sciences, University of Surrey, Guildford, UK ² Water Pollution Research Department, National Research Centre, Dokki, Cairo, Egypt ID 203 Graphene nanowalls as electrode material in microbial fuel cells Roger Amade¹¹², Ashbir Singh Dhillon¹, Joan Martí¹, Islam Alshaikh¹, Enric Bertran Serra¹¹², Jordi Dachs³, Maria Vila³, ¹ ENPHOCAMAT Group, Department of Applied Physics, University of Barcelona, Spain ² Institute of Nanoscience and Nanotechnology (IN2UB), University of Barcelona, Spain ³ Department of Environmental Chemistry, IDAEA-CSIC, Barcelona, Spain ³ Department of Environmental Chemistry, IDAEA-CSIC, Barcelona, Spain Beal saline water desalination using brewery wastewater as an energy source in microbial desalination cell Marina Ramírez-Moreno¹¹³, Juan Manuel Ortiz¹, Pau Ródenas¹, Patricia Zamora², Víctor Monsalvo², Frank Rogalla² and Abraham Esteve-Núñez¹¹³ ³ MiMDEA Water Institute, Alcalá de Henares, Madrid, Spain ³ Aqualia, Innovation and Technology Department, Madrid, Spain ³ Analytical Chemistry, Physical Chemistry, and Chemical Eng. Dept, Universidad de Alcalá, Madrid, Spain. ID 37 Implementation of the pilot-scale setup at a household for the treatment of domestic		
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Dachs³, Maria Vila³, ¹ENPHOCAMAT Group, Department of Applied Physics, University of Barcelona, Spain ²Institute of Nanoscience and Nanotechnology (IN2UB), University of Barcelona, Spain ³Department of Environmental Chemistry, IDAEA-CSIC, Barcelona, Spain ID 204 Real saline water desalination using brewery wastewater as an energy source in microbial desalination cell Marina Ramírez-Moreno¹,³, Juan Manuel Ortiz¹, Pau Ródenas¹, Patricia Zamora², Víctor Monsalvo², Frank Rogalla² and Abraham Esteve-Núñez¹,³ ¹IMDEA Water Institute, Alcalá de Henares, Madrid, Spain ²Aqualia, Innovation and Technology Department, Madrid, Spain ³Analytical Chemistry, Physical Chemistry, and Chemical Eng. Dept, Universidad de Alcalá, Madrid, Spain. T8 Scale-up of MET for commercialisation Implementation of the pilot-scale setup at a household for the treatment of domestic	ID 203	Graphene nanowalls as electrode material in microbial fuel cells
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3 Department of Environmental Chemistry, IDAEA-CSIC, Barcelona, Spain Real saline water desalination using brewery wastewater as an energy source in microbial desalination cell Marina Ramírez-Moreno ^{1,3} , Juan Manuel Ortiz ¹ , Pau Ródenas ¹ , Patricia Zamora ² , Víctor Monsalvo ² , Frank Rogalla ² and Abraham Esteve-Núñez ^{1,3} ¹IMDEA Water Institute, Alcalá de Henares, Madrid, Spain ²Aqualia, Innovation and Technology Department, Madrid, Spain ³Analytical Chemistry, Physical Chemistry, and Chemical Eng. Dept, Universidad de Alcalá, Madrid, Spain. T8 Scale-up of MET for commercialisation Implementation of the pilot-scale setup at a household for the treatment of domestic		
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¹ Dept of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat, India	ID 400	
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¹ GENOCOV, Departament d'Enginyeria Química, Biològica i Ambiental, Universitat Autònoma de Barcelona,		
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¹ Dept of Polymer and Process Engineering, Indian Institute of Technology – Roorkee, India		· · · · · · · · · · · · · · · · · · ·

	² School of Chemical Engineering, University of Birmingham, UK
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	Azariel Ruiz-Valencia ¹ , Christoph Keuschnig ¹ , Timothy M. Vogel ¹
	¹ Environmental Microbial Genomics, CNRS, Ecole Centrale de Lyon, Université de Lyon, Ecully, France
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	Kyle Bowman ^{1,2} , George Fudge ¹ , William Gambier ¹ , Ben Jobling-Purser ¹ , Thomas Fudge ¹ , Izzet Kale ³ ,
	Godfrey Kyazze².
	¹ WASE Ltd London, UK
	² Water Research Group, School of Life Sciences - University of Westminster, UK.
	³ School of Computer Science and Engineering – University of Westminster, UK.
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	Constantina Varnava ¹ , Ioannis Ieropoulos ² , Argyro Tsipa ^{1,3}
	¹ Department of Civil and Environmental Engineering, University of Cyprus, Nicosia, Cyprus
	² Water and Environmental Engineering Group, University of Southampton, Southampton, UK
	³ Nireas International Water Research Centre, University of Cyprus, Nicosia, Cyprus

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	¹ Department of Chemical Engineering, University of Illinois at Chicago, Chicago, IL USA	
	² Pritzker School of Molecular Engineering, University of Chicago, Chicago, IL USA	
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	¹ Department of Environmental Engineering, Technical University of Denmark, Denmark	
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	driven bioelectrochemical system Laura Pause ¹ , Bin Lai ¹ , Jens O. Krömer ¹	
	¹ AG Systems Biotechnology, Department of Solar Materials, UFZ – Helmholtz Centre for Environmental	
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	Bent Smets ¹ , Eric Boschker ¹ , Filip Meysman ¹	
	¹ Microbial Systems Technology, University of Antwerp, Belgium	
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	Hannah Wohlers¹, Dirk Holtmann¹	
	¹ Technische Hochschule Mittelhessen, Gießen , Germany	
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	² Faculty of Biological Sciences, Friedrich Schiller University, Jena, Germany	
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	Laura Muñoz¹, Louise Grøn¹, Jo Philips¹.	
	¹ Biological and Chemical engineering department, Aarhus University, Aarhus, Denmark	
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	Biki B. Kundu ¹ , Caroline M. Ajo-Franklin ¹	
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	Annika Lenić ^{1,2} , Gerald Lackner ³ and Miriam A. Rosenbaum ^{1,2}	
	¹ Bio Pilot Plant, Leibniz Inst. for Natural Product Research and Infection Biology – HKI Jena, Germany	
	² Faculty of Biological Sciences, Friedrich-Schiller-University, Germany ³ Synthetic Microbiology, Leibniz Inst. for Natural Product Research and Infection Biology – HKI Jena, Germany	
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	¹ Dept of Biochemical Engineering and Biotechnology, Indian Institute of Technology – Delhi, India	
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	Yu Sun ¹ , Marika Kokko ¹ and Igor Vassilev ¹	
	¹ Faculty of Engineering and Natural Sciences, Tampere University, Tampere, Finland	
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	¹ School of Chemical Engineering, Pusan National University, Busan, Republic of Korea	

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	vesicle to cell surface
	Xizi Long ¹ , Wei-peng Li ^{1, 2} , Satoshi Takenawa ¹ , Kataoka-Hamai Chiho ¹ and Akihiro Okamoto ^{1,3*}
	¹ Intl Center for Materials Nanoarchitectonics, National Institute for Materials Science, Ibaraki, Japan
	² Dept of Medicinal and Applied Chemistry, Kaohsiung Medical University, Kaohsiung, Taiwan
	³ Graduate School of Chemical Sciences and Engineering, Hokkaido University, Hokkaido, Japan
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	assimilation rate in microbial fuel cell for wastewater treatment
	Li Xie¹, Naoko Yoshida¹
	¹ Department of Civil Engineering, Nagoya Institute of Technology (Nitech), Nagoya, Aichi, Japan
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ID 141	Uncovering novel mechanisms for electron uptake in cathode- oxidizing marine microbial
	consortia
	<u>Joshua D. Sackett¹</u> , Jin-Sang Yu ¹ , Nitin Kamble ¹ , Edmund Leach ¹ , Taruna Schuelke ² , Elizabeth
	Wilbanks ² , and Annette R. Rowe ¹
	¹ Department of Biological Sciences, University of Cincinnati, Cincinnati, Ohio, USA
	² Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, USA
ID 146	The new electroactive Gram-positive bacterium Paenibacillus profundus YoMME
	Yolina Hubenova ^{1,2} and Mario Mitov ^{3,4}
	¹ Institute of Electrochemistry and Energy Systems "Acad. Evgeni Budevski", IEES- BAS, Sofia, Bulgaria
	² Department of Biochemistry and Microbiology, Plovdiv Univ. "Paisii Hilendarski", Plovdiv, Bulgaria
	³ Department of Chemistry, South-West University "Neofit Rilski", Blagoevgrad, Bulgaria
	Innovative Center for Eco Energy Technologies, SW University "Neofit Rilski", Blagoevgrad, Bulgaria
ID 158	Materials informatics approach combined with high-throughput electrochemistry to
	model extracellular electron transport via electron shuttles
	Takashi Fuikawa¹, Ryo Tamura¹,², Gaku Imamura¹,³ and Akihiro Okamoto¹,⁴
	¹National Institute for Materials Science, Japan
	² Graduate School of Frontier Sciences, The University of Tokyo, Japan
	³ Graduate School of Information Science and Technology, Osaka University, Japan
	- , , ,
ID 4CE	4Graduate School of Chemical Sciences and Engineering, Hokkaido University, Hokkaido, Japan
ID 165	The surface biology of an electroactive methanogen – Methanosarcina barkeri
	Abdalluh Jabaley ¹ , Daniel Chevrier ² , Damien Faivre ² , Per Morgen ³ & Amelia-Elena Rotaru ¹
	¹ Department of Biology, University of Southern Denmark, Denmark
	² Biosciences and Biotechnologies Institute of Aix-Marseille, France
	³ Department of Farmacy, Physics and Chemistry, University of Southern Denmark, Denmark
ID 170	Corrosion of metallic iron by methanogens: the dual role of soluble CO ₂ as a substrate and
	reactant for H₂ production
	<u>Ioannis Vyrides¹</u> , Despina Constantinou ¹ , Charis Samanides ¹ , Maria Andronikou ¹
	¹ Dept of Chemical Engineering, Cyprus University of Technology, Limassol, Cyprus.
ID 179	Inward electron transfer in S. oneidensis: A thermodynamic barrier
	Shaylynn Miller and Michaela TerAvest
	Affiliation: Michigan State University, East Lansing, MI, USA.
ID 201	Effect of conductive magnetite nanoparticles on anodic and cathodic electron transfer
.5 202	processes in bioelectrochemical systems
	· · · · · · · · · · · · · · · · · · ·
	Clara Marandola ¹ , Lorenzo Cristiani ¹ , Carolina Cruz Viggi ² , Marco Resitano ² , Matteo Tucci ² , Marco
	Zeppilli ¹ , Sebastià Puig ³ , Marianna Villano ¹
	¹ Department of Chemistry, Sapienza University of Rome, Italy
	² Water Research Institute (IRSA), National Research Council (CNR), Monterotondo, Italy
	³ LEQUIA, Institute of Environment, University of Girona, Girona, Spain
ID 209	CO ₂ bioconversion to CH ₄ when Zero-Valent Iron is added to anaerobic granular sludge in
	a system under mild environmental conditions
	Maria Andronikou ¹ and Ioannis Vyrides ¹
	¹ Department of Chemical Engineering, Cyprus University of Technology, Lemesos, Cyprus
T4-B N	Naterial science and reactor design
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ID 03	Alternating current based electrochemical deposition of pure emeraldine salt redox state
	of polyaniline to modify mw- cnt/polyester microfiber nonwoven based flexible electrode
	for microbial fuel cell
	Rahul Kandpal ^{1, 2, 3} , Syed Wazed Ali ^{1,3*} , Shaikh Ziauddin Ahammad ^{1,2*}
	¹School of Interdisciplinary Research (SIRe), Indian Institute of Technology Delhi, India
	² Dept of Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi, India
	³ Dept of Textile and Fibre Engineering, Indian Institute of Technology Delhi, New Delhi, India
ID 20	Polyaniline interweaved iron embedded in urea-formaldehyde resin-based carbon as a
	cost-effective catalyst for power generation in microbial fuel cell
	Simran Kaur Dhillon ¹ , Patit P Kundu ¹
	¹ Department of Chemical Engineering, Indian Institute of Technology, Roorkee, India
ID 32	A single-chamber bioelectrochemical system without an ion-exchange membrane for
	Power-to-X and basic research
	Nils Rohbohm ¹ , Tianran Sun ² , and Largus T. Angenent ¹
	¹ Env. Biotechnology, Center for Applied Geosciences, Univ. of Tübingen, Tübingen, Germany
	² Laboratory of Soil Environmental Science and Technology, Research Center for Eco-Environmental Sciences,
ID 40	Chinese Academy of Sciences, Haidian, Beijing, PR China
10 40	Development of Innovative Soil Microbial Fuel Cells for Energy Harvesting Jakub Dziegielowski ¹ , Mirella Di Lorenzo ¹
	¹ Department of Chemical Engineering and Centre for Biosensors, Bioelectronics & Biodevices (C3Bio),
	University of Bath, Claverton Down, UK
ID 65	Membrane-Catholyte Selection for Microbial Electrolysis Cells for Brewery Wastewater
	Treatment
	Isaac Vázquez ¹ , Oksana Bunk ¹ , Thomas Papyrin ¹ , Sven Kerzenmacher ¹ , Óscar Santiago ¹
	¹Center for Environmental Research and Sustainable Technology (UFT), Univ. of Bremen, Germany
ID 232	Potential applications of a novel scalable rotating disk bioelectrochemical reactor
	(RDBER)
	Johannes Eberhard Reiner ¹ , Max Hackbarth ¹ , Johannes Gescher ² and Harald Horn ¹
	¹ Engler-Bunte-Institute, Karlsruhe Institute of Technology, Germany
	² Institute of Technical Microbiology, University of Technology Hamburg, Germany
ID 144	From CAD to Geobacter: 3D-printed spherical micro-anodes for use in bioelectrochemical
	systems
	George Papaharalabos ¹ , Elia Judith Martínez ¹ , Xiomar Gómez ¹ and Antonio Moran Palao ¹
	¹ Chemical and Env. Bioprocess Eng. Group, Natural Resources Institute, Univ. of León, León, Spain
ID 167	Bacterial imprinting with <i>G. sulfurreducens</i> for next generation microbial electrochemical
	technologies
	Jack Reeder ¹ , Liz Heidrich ¹ , Matt Unthank ² , Marloes Peeters ¹
	¹ Newcastle University, School of Engineering, Merz Court, Newcastle upon Tyne, UK ² Northumbria University, Dept of Applied Sciences, Newcastle upon Tyne, UK
ID 172	Improving microbial desalination cell performance by cathode modification using
10 172	BiOCI/gCN as electro-catalyst
	, , ,
	Sadik Rahman ¹ , Noor Juma ¹ , Md. Abdullah Al-Mamun ¹ and Ahmad Sana ¹
ID 177	¹ Dept of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman Novel Design of Microbial Desalination Cell for Acid-Base Recovery
וט דוו	Abdullah Al-Mamun, Azhar Al Hinai
	Department of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman
T5 Mic	robial electrochemical synthesis and electro-fermentation
ID 09	Promotion effect of humin on acetate electrosynthesis from carbon dioxide by <i>Moorella</i>
10 03	thermoacetica JCM 9320
	Biec Nhu Ha ¹ , Duyen Minh Pham ² , Takuya Kasai ^{1,2} , and Arata Katayama ^{1,2,*}
	¹ Dept of Civil Engineering, Graduate School of Engineering, Nagoya University, Japan
	² Institute of Materials and Systems for Sustainability, Nagoya University, Japan
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ID 19	Promotion of biological nitrogen fixation by electron donation from solid phase humin
	<u>Takuya Kasai^{1,2},</u> Sujan Dey ² and Arata Katayama ^{1,2}
	¹ Institute of Materials and Systems for Sustainability, Nagoya University, Japan
	² Graduate School of Engineering, Nagoya University, Japan
ID 23	Indoor CO₂ as renewable carbon source: coupling indoor CO₂ direct air capture to
	microbial electrosyntehsis technologies
	<u>Luis R. López</u> ¹ , Paolo Dessí ¹ , Alba Cabrera-Codony, Pau Zamora ¹ , Bart Kraakman ² , M. Dolors
	Balaguer ¹ , Sebastià Puig ¹
	¹ LEQUIA, Institute of Environment, University of Girona, Girona, Spain
ID 41	² Jacobs Engineering, Bristol, UK
ID 41	Microbial electrosynthesis of commodity chemicals from CO ₂ : Progress and limitations
	Miriam Fernández-Ávila Cobo ¹ , Babak Rezaei ² , Stephan Sylvest Keller ² Yifeng Zhang ¹ Department Of Environmental Engineering, Technical University of Denmark, Denmark
	² National Centre for Nano Fabrication and Characterization, Technical Univ. of Denmark, Denmark
ID 57	CO ₂ conversion to Formate – controllable, continuous substrate provision systems for
10 37	formatotrophs
	Marc Pfitzer ¹ and Dirk Holtmann ¹
	¹ TH Mittelhessen University of Applied Sciences, Institute of Bioprocess Engineering and Pharmaceutical
	Technology, Giessen, Germany
ID 84	Bio-electro CO₂ recycling into ethanol
	Meritxell Romans-Casas ¹ , Elisabet Perona-Vico ² , Paolo Dessì ¹ , Lluis Bañeras ² , M. Dolors Balaguer ¹
	Sebastià Puig ^{1*}
	¹ LEQUiA. Institute of the Environment. University of Girona. Girona, Spain.
	² gEMM. Institute of Aquatic Ecology, University of Girona, Girona, Spain.
ID 104	Methanol as a co-substrate with carbon dioxide enhances butyrate production in
	microbial electrosynthesis
	Hui Yao ¹ , Igor Vassilev ¹ , and Marika Kokko ¹
	¹ Faculty of Engineering and Natural Sciences, Tampere University, Tampere, Finland
ID 107	Electrode-based polyhydroxybutyrate (PHB) production from CO₂ by
	microbial electrosynthesis of Rhodobacter sphaeroides
	Shuwei Li, Minsoo Kim, Jung Rae Kim
	School of Chemical Engineering, Pusan National University, Busan, Republic of Korea
ID 121	Alternating applied voltage speeds up electro-fermentation
	<u>David Strik</u> ¹ , Claire Kooiman ¹ , Kasper de Leeuw ¹ , Rick Litecia ¹ , Merve Atasoy ^{1,2}
	¹ Environmental Technology. Wageningen University & Research, the Netherlands
	² Laboratory of Microbiology. Wageningen University & Research, the Netherlands
ID 129	Acetogenic inoculum selection and activation from mixed sludge for acetate
	bioelectrosynthesis
	Jacopo Ferretti, Riccardo Minardi, Lorenzo Cristiani, Marianna Villano, Mauro Majone, Marco
	Zeppilli
ID 120	Dept of Chemistry, Sapienza University of Rome, Rome, Italy
ID 130	Artificial electron mediator and biofilm matrix derive electron transfer in CO ₂
	electrosynthesis
	Young Eun Song ^{1,2} , Abdelrhman Mohamed ³ , Changman Kim ⁴ , Minsoo Kim ¹ , Shuwei Li ¹ , Eric
	Sundstrom ² , Haluk Beyenal ³ , and Jung Rae Kim ¹ ,
	¹ School of Chemical Engineering, Pusan National University, Geumjeong-Gu, Busan, Republic of Korea ² Advanced Biofuel and Bioproducts Process Development Unit, Lawrence Berkeley National Laboratory,
	Emeryville, CA, USA
	³ The Gene and Linda Voiland School of Chemical Engineering and Bioengineering, Washington State
	University, Pullman, WA, USA
	⁴ Biotechnolgy and bioengineering, Chonnam National University, Buk-Gu, Gwangju, Republic of Korea
ID 131	The VIVALDI project: Integrating bio/electrochemistry in the emerging CO ₂ -based industry
	Albert Guisasola

	GENOCOV, Dept d'Enginyeria Química, Biològica I Ambiental, Escola d'Enginyeria, UAB, Spain
ID 133	Electrode-attached cell driven biogas upgrading of anaerobic digestion effluent CO ₂ to CH ₄
	using a microbial electrosynthesis cell
	Minsoo Kim ¹ , Shuwei Li ¹ , Young Eun Song ² , Dong-Yeol Lee ³ and Jung Rae Kim ^{1*}
	¹ School of Chemical Engineering, Pusan National University, Republic of Korea
	² Advanced Biofuel and Bioproducts Process Dev Unit, Lawrence Berkeley National Laboratory, USA
	³ Environmental Solution Team, GS Engineering & Construction, Republic of Korea
ID 156	Study of hydrogen production mechanisms from wastewaters in a microbial electrolysis
15 150	cell
	Lorenzo Cristiani¹, Clara Marandola¹, Damiano Feriaud¹, Remy Lacroix², Benjamin Erable³, Marco
	Zeppilli¹, Marianna Villano¹
	¹ Department of Chemistry, Sapienza University of Rome, Italy
	² 6T-MIC Ingénieries, Castanet-Tolosan, France
	³ Laboratoire de Génie Chimique, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France
ID 188	Direct power to gas by <i>Methanosarcina barkeri</i>
15 100	Malene Arreborg ¹ and Amelia-Elena Rotaru ¹
	¹ Department of Biology, University of Southern Denmark, Denmark
ID 206	Transcriptome and proteome analysis of two cathodic obligate anaerobes for targeted
10 200	
	development of better microbial electrosynthesis
	Sara Al Sbei ^{1,2} , Maliheh Abdollahi Mirbadi ³ , Falk Harnisch ³ , Miriam A. Rosenbaum ^{1,2}
	¹ Leibniz Institute for Natural Product Research and Infection Biology, Hans-Knöll-Institute, Germany
	² Faculty of Biological Science, Friedrich-Schiller-University Jena, Germany ³ Dept of Env. Microbiology, UFZ-Helmholtz Centre for Environmental Research, Leipzig, Germany
ID 207	
10 207	Taming the challenge of the anode reaction for microbial electrosynthesis from
	CO ₂ like Poseidon horses
	Maliheh Abdollahi Mirabadi¹, Sara Al Sbei², Miriam A. Rosenbaum², Falk Harnisch¹
	¹ Dept of Env. Microbiology, Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany
	² bBio Pilot Plant, Leibniz Inst. for Natural Product Research and Infection Biology – HKI-Jena, Germany
ID 213	Bioelectrochemical ammonia production by Acidithiobacillus ferrooxidans mutants with
	modified regulation of nitrogenase
	Atsushi Kouzuma, Shohei Yamada and Kazuya Watanabe
	School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Japan
ID 215	Elucidating factors necessary for extracellular electron transport in E. coli
	Lukas Kneuer ¹ , Johannes Gescher ¹
	¹ Institute of Technical Microbiology, Hamburg University of Technology (TUHH), Germany
ID 218	Improvement of biohydrogen production by electro-fermentation stimulating the
	ethanol-type pathway
	René Cardeña ^{1,2} , Casandra Valencia-Ojeda ¹ , Luis Felipe Cházaro-Ruiz ¹ , Elías Razo-Flores ¹
	¹ Instituto Potosino de Investigación Científica y Tecnológica A.C., División de Ciencias Ambientales, San Luis
	Potosí, SLP, México
	² Environmental Microbiology and Biotechnology Lab, Dept of Environmental Sciences, Instituto Tecnológico
ID 240	Regional Centro Sur, Universidad Tecnológica, Durazno, Uruguay
ID 219	Friendship between metals, granular activated carbon and microbes improves microbial
	electrosynthesis performance
	<u>Igor Vassilev</u> ¹ , Davide Bergna ^{2, 3} , Ulla Lassi ^{2, 3} and Marika Kokko ¹
	¹ Faculty of Engineering and Natural Sciences, Tampere University, Finland
	² Research Unit of Sustainable Chemistry, University of Oulu, Finland
ID 224	³ Applied Chemistry, University of Jyvaskyla, Kokkola University Consortium Chydenius, Finland
ID 224	Photoelectroheterotrophic production of polyhydroxybutyrate (PHB) in purple
	phototrophic bacteria
	Fernando Muniesa-Merino ¹ , Carlos Manchon ^{1,2} , and Abraham Esteve-Nuñez* ^{1,2}
	¹Universidad de Alcalá, Alcalá de Henares, Madrid, Spain.
	² Nanoelectra S.L., Madrid, Spain.

ID 227	Improvement of microbial electrosynthesis by pure homoacetogens using a low redox
	potential mediator
	María Fernanda Pérez-Bernal ¹ , <u>Elie Desmond Le-Quéméner¹</u> , Paul V. Bernhardt ² , Éric Trably ¹ and
	Nicolas Bernet ¹ .
	¹ LBE, University of Montpellier, INRAE, Narbonne, France
ID 230	² School of Chemistry and Molecular Biosciences, University of Queensland, Brisbane, Australia
10 230	CO ₂ fixation for value-added chemical production using <i>Clostridium ljungdahlii</i> as a host
	strain in a bioelectrochemical system
	<u>Chaeho Im</u> ¹ , Oskar Modin ² , and Yvonne Nygård ¹ Division of Industrial biotechnology, Department of Biology and Biological Engineering, Industrial
	Biotechnology, Chalmers University of Technology, Gothenburg, Sweden
	² Division of Water Environment Technology, Department of Architecture and Civil Engineering, Chalmers
	University of Technology, Gothenburg, Sweden
ID 231	Using intrinsic fluorescent spectra to monitor electro-activity of 3D-
	bioprinted <i>C. ljungdahlii</i> MES cells
	Adolf Krige ¹ , Kerstin Ramser ² , Lisbeth Olsson ³ , Yvonne Nygård ³ , Ulrika Rova ¹ and Paul
	Christakopoulos ¹
	¹ Biochemical Process Engineering, Dept of Civil, Environmental and Natural Resources Engineering, Luleå
	University of Technology, Luleå, Sweden
	² Experimental Mechanics, Division of Fluid and Experimental Mechanics, Department of Engineering Sciences and Mathematics, Luleå University of Technology, Luleå, Sweden
	³ Dept of Biology and Biological Engineering, Chalmers University of Technology, Gothenburg, Sweden
T6 MF1	T-based sensor technology
ID 42	Whole bacterial cell surface modified screen printed nitrate biosensor based on direct
10 42	electron transfer of <i>Bacillus</i> sp. electropolymerized within polyaniline films
	Hossam E. M. Sayour ¹ ,Nashwa Youssef ² ,Ihab Adly ³ ,Hani Ragai ⁴ ,Khaled Kirah ⁴ ,Ola M. Gomaa ⁵
	¹ Molecular Biomimetic Research Group, Biomedical Chemistry Unit, Chemistry Dept., Animal Health Research
	Institute (AHRI), Agricultural Research Center (ARC), Dokki, Egypt
	² Solid State Physics and Accelerators Department, National Center for Radiation Research and Technology,
	Egyptian Atomic Energy Authority, Cairo-Egypt
	³ Faculty of Engineering, British University in Egypt (BUE), Suez desert road, El Sherouk City-Egypt
	⁴ Faculty of Engineering, Ain Shams University, Cairo-Egypt
	⁵ Radiation Microbiology Department, National Center for Radiation Research and Technology, Egyptian
	Atomic Energy Authority, Cairo, Egypt
	ectrochemical, biological & systemic analysis of METs
ID 217	Novel species identification and deep functional annotation of electrogenic biofilms,
	selectively enriched in microbial fuel cell (MFC) array
	Lukasz Szydlowski ^{1,2} , Jiri Ehlich ³ , Pawel Szczerbiak ² , Noriko Shibata ¹ , and Igor Goryanin ^{1,4,5}
	¹ Okinawa Institute of Science and Technology, Biological Systems Unit, Onna, Japan ² Malopolska Centre of Biotechnology, Jagiellonian University, Krakow, Poland
	³ Brno University of Technology, Faculty of Chemistry, Brno, Czechia
	⁴ University of Edinburgh, School of Informatics, Edinburgh, UK
	⁵ Tianjin Institute for Industrial Biotechnology, Tianjin, China
T9 - No	vel Applications of METs
ID 28	Biogas to edible single-cell protein in a bioinorganic electrosynthesis system
	Mingyi Xu ¹ , Dan Zhao ¹ , Yifeng Zhang ^{1,}
	¹ Dept of Environmental Engineering, Technical University of DenmarkKongens Lyngby, Denmark
ID 61	Biofilm suppression and bacteria killing on stainless steel based on electrochemical
	approach
	Mohammed Y. Emran ¹ , Waheed Miran ¹ , and Akihiro Okamoto ^{1,2}
	¹ International Center for Materials Nanoarchitectonics (WPI-MANA), National Institute for Materials, Tsukuba, Japan
	² Graduate School of Chemical Sciences and Engineering, Hokkaido University, Kita-ku, Sapporo, Japan

ID 99	A novel, electricity- and carbon dioxide-powered microbial electrochemical system to
	extract iron on mars and earth
	Antoine Carissimo ¹ , Sven Kerzenmacher ¹ , Jan-Henning Dirks ² , Michael W. Friedrich ³ and Guillaume
	Pillot ¹
	¹ Environmental Process Engineering research group, Center for Environmental Research and Sustainable
	Technology, University of Bremen, Germany
	² Biological Structures and Biomimetics research group, Biomimetics-innovation-Center, Hochschule Bremen – City University of Applied Sciences, Germany
	³ Microbial Ecophysiology research group, University of Bremen, Germany
ID 127	Bioelectrochemical system for flexible biogas production
	Janek R. Weiler ¹ , Melanie T. Knoll ¹ , Nikolai Jürgensen ² , An-Ping Zeng ² , Johannes Gescher ¹
	¹ Institute of Technical Microbiology, University of Technology Hamburg, Hamburg, Germany
	² Institute of Bioprocess and Biosystems Engineering, Univ. of Technology Hamburg, Hamburg, Germany
ID 200	The metabolic tuning of mixed purple phototrophic bacteria biofilms in heterotrophic
	conditions through microbial photo- electrosynthesis
	S. Díaz-Rullo Edreira ¹ , A. Prado ² , I.A. Vasiliadou ³ , JJ. Espada ¹ , R. Wattiez ⁴ , B. Leroy ⁴ , F. Martínez ¹ ,
	D. Puyol ¹
	¹ Chemical and Environmental Engineering Group (GIQA), Universidad Rey Juan Carlos, Madrid, Spain
	² Electric Engineering Area, Polytechnic University of Cartagena, Cartagena, Spain
	³ Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece
ID 211	⁴ Laboratory of Proteomics and Microbiology, University of Mons, Mons, Belgium
10 211	e-Soil – Electro-active artificial soil for soil-less farming: nutrients cycling from food-
	industry wastewaters
	Giovanni Rusconi Clerici ² , Paolo Bombelli ¹ , Federico Körner ¹ , Stefano Pierpaolo Trasatti ¹ , Antonio Idá ³ , Abraham Esteve Núñez ² , Andrea Schievano ¹
	¹ Department of Environmental Science and Policy, University of Milan, Italy
	² Institute IMDEA agua, Alcalà de Henares, Spain
	³ Algaria srl, via Bergognone, Milano, Italy
ID 220	Cable Bacteria as electrical signal carriers & the transmission of music
	Koen Wouters ¹ , Robin Bonné ^{1,2} and Jean Manca ¹
	¹ UHasselt, X-LAB, Diepenbeek, Belgium
	² Center for Electromicrobiology, Department of Biology, Aarhus University, Aarhus, Denmark
ID 233	Effect of carbon material type on biofilm formation and subsequent electrochemistry for
	Pseudomonas Fluorescens under anaerobic conditions.
	Chyntol Kanhimbe ¹ , James M Courtney ¹ , Neil V Rees ¹ , Rahul Gautam ^{1,2} , Robert Steinberger
	Wilckens ¹
	¹School of Chemical Engineering, University of Birmingham, UK
	² Dept of Polymer and Process Engineering, Indian Institute of Technology, Roorkee, India