

TIME: CEST (UTC+02:00)	Day 1: Monday 14 June		
09:00 - 09:20	Opening		
09:20 - 10:00	Plenary: W. Nitschke, Life's emergence: an early success story of electrochemical free energy conversion		
10:00 - 11:00	Session 1: Advances in vanadium redox flow batteries	Session 2: Electrochemical degradation and disinfection processes	Session 3: Water electrolysis and fuel cells - I
10:00 - 10:15	555 M. Bureš, Mitigation of capacity and efficiency loss in vanadium redox flow batteries: mathematical model and experimental validation	516 N. Duinslaeger, Graphene Sponge Electrodes for Electrochemical Degradation of Perfluoroalkyl Substances (PFAS)	260 J. Graves, Electrochemical oxidation of ammonia coupled with hydrogen generation
10:15 - 10:30	340 C. Weidlich, Half-Cell Monitoring at All-Vanadium-Flow-Batteries (VFB)	430 G. Norra, Electrochemical Disinfection of E. Coli with Reduced Graphene Oxide Foam Electrodes	204 F. Kubannek, Effect of Carbon Dioxide from Ambient Air on Alkaline Exchange Membranes for Fuel Cells
10:30 - 10:45	231 E. Prumbohm, Optimisation of flow field designs for vanadium redox-flow batteries	248 M. Herraiz Carbone, Photo-assisted electrochemical disinfection of hospital urines using a novel flow-through reactor	114 C. Sánchez Martínez, Overcoming mass transport limitations in electrochemical reactors with a pulsating flow electrolyzer
10:45 - 11:00	206 I. Kroner, Investigations on the vanadium ion reaction kinetics on single carbon fibre electrodes	162 M. Mohseni, Fe ₃ O ₄ -incorporated carbon microtubes as efficient electrodes for the degradation of persistent pollutants at neutral pH	68 Q. Cai, Modelling and design of the porous electrode microstructure in fuel cells and batteries using a 3D pore-scale lattice Boltzmann model
11:00 - 11:20	coffee break		
11:20 - 12:45	Session 4: Advances in Li-ion and other batteries	Session 5: Capacitive deionization: applications	Session 6: Alkaline water electrolysis
11:20 - 11:45	372 P. Thivel, Impact of batteries ageing on their state of security	617 M. Suss, Co-generation of electricity and desalted water using chemical energy	51 J. Haverkort, A limiting current in alkaline water electrolysis
11:45 - 12:00	563 H. Steinrück, Concentration and Velocity Profiles in a Polymeric Lithium-ion Battery Electrolyte	570 Y. Jande, Energy consumption for fluoride removal using constant current operated capacitive deionization system	607 J. Bleeker, Controlling gas bubble nucleation and release in alkaline electrolysis
12:00 - 12:15	524 N. Rigos, Effect of fast charging on Lithium plating and SEI growth	548 A. Shocron, Electrochemical removal of amphoteric ions	445 T. Rauscher, Highly active electrodes for alkaline water electrolysis by femtosecond-laser processing
12:15 - 12:30	449 E. Coron, From first to second life of lithium-ion batteries study	527 Z. Sahray, Theory of monovalent ion selectivity using porous carbon capacitive deionization electrodes	326 A. Rajora, An analytical model for liquid and gas diffusion layers in electrolyzers and fuel cells
12:30 - 12:45	75 Y. Wang, Paper-based all-solid state Zn-air and Zn-Ag hybrid battery	74 A. Kalfa, Capacitive Deionization for Wastewater Treatment: Opportunities and Challenges	42 J. Brauns, Enhancing the part-load range of alkaline water electrolyzers by model-based optimization

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12:45 - 14:00	Lunch		
14:00 - 14:40	Plenary: M. Wessling, Electrochemical ammonia synthesis		
14:40 - 15:40	Session 7: Redox flow batteries	Session 8: Electrochemical wastewater treatment	Session 9: Water electrolysis and fuel cells - II
14:40 - 14:55	558 P. Mazúr, Development of aqueous redox flow batteries based on organic electroactive compounds	595 J. Ma, Novel porous TiOx anode materials for the removal of organic pollutants from water	263 L. de Haart, Sustainable Syngas Production in Power-to-X Technologies
14:55 - 15:10	380 I. Leon-Sotelo, Simulation of hydrodynamics, mass transport and current distribution in a Cerium-Vanadium redox flow battery	502 C. Hu, A biomimetic photocatalytic system for efficient electricity generation from wastewater treatment	256 S. Díaz Abad, Addressing the challenges of the SO2 depolarized electrolysis at high temperature
15:10 - 15:25	255 J. Hereijgers, Improving the hydrodynamics of redox flow batteries through 3D printed electrodes	362 C. Sáez, Development of electrochemical processes to reduce environmental risk of Hospital Effluents	226 L. Castañeda, Theoretical and experimental characterization of H2O-H2 flow in an electrocoagulation reactor in serpentine array
15:25 - 15:40	150 J. Charvát, Effect of operating conditions on performance and lifetime of vanadium-oxygen fuel cell	110 N. Sergienko, Manganese oxide/reduced graphene oxide porous electrodes for rapid and selective (electro)catalytic removal and recovery of sulfide from wastewater	164 D. Franzen, Spatially resolved model for oxygen reduction reaction in porous gas-diffusion electrodes
15:40 - 16:00	coffee break		
16:00 - 17:30	Poster session		

Day 2: Tuesday 15 June			
09:20 - 10:00	Plenary: M. Zheludkevich, Complexants as active modulators of metal surface reactivity: from Corrosion Control to Primary Batteries		
10:00 - 11:00	Session 10: Advances in CO₂ electroreduction - I	Session 11: Flow batteries and novel energy storage systems	Session 12: Water electrolysis and fuel cells: materials
10:00 - 10:15	601 N. Ligthart, Suspension electrodes for enhanced mass transfer in electrocatalytic CO ₂ reduction	605 L. Gurreri, Optimization study of acid-base flow battery stacks with monopolar and bipolar membranes	610 Z. Qiu, Promising Hydrogen Production from Black Liquor Electrolysis on Earth-Abundant Catalysts
10:15 - 10:30	537 M. Miola, Scalable Bismuth electrocatalyst for selective CO ₂ -to-formate conversion	585 F. Summer, Development and optimization of Electrochemical flow capacitor (EFC) technology	196 M. Vagin, Proton and oxygen management in electrocatalysis on conducting polymers
10:30 - 10:45	330 M. Pupo, Role of Different Electrolytes in CO ₂ RR – Improvements in FE and Product Selectivity	533 J. Steen, Stable Organic Radicals for Symmetric Redox Flow Batteries	93 M. Durovic, NiCoP cathode catalyst for electrochemical water splitting: Structural and electrochemical characterization
10:45 - 11:00	79 I. Katsounaros, Real-time characterization of CO ₂ reduction products	448 A. Cosenza, Lab-scale experiments on a novel acid/base electro-dialytic flow battery with bipolar membranes	71 F. Sapountzi, Metal phosphides as cathodes in PEM water electrolysis
11:00 - 11:20	coffee break		
11:20 - 12:45	Session 13: Upscaling CO₂ electrolyzers	Session 14: Capacitive deionization and supercapacitors	Session 15: PEM fuel cells
11:20 - 11:45	683 M. Koper, <i>Advances and challenges in understanding the electrocatalytic conversion of carbon dioxide to fuels</i>	197 A. Forse, <i>Charging Mechanisms and Dynamics in Supercapacitors from NMR Spectroscopy</i>	425 Y. Bultel, <i>Fault detection and identification for Polymer Electrolyte Membrane Fuel Cell</i>
11:45 - 12:00	611 M. Vranckaert, Up-scaling a zero-gap CO ₂ electrolyzer beyond the pilot scale	364 T. Centeno, Revisiting biomass wastes based-activated carbons in supercapacitors: Volumetric performance	565 J. Mališ, Optimization of the PEM fuel cells MEA preparation by depositing ultrasound dispersed catalytic ink on the membrane surface
12:00 - 12:15	312 L. Baumgartner, Scale-up limitation of gas diffusion electrodes for CO ₂ conversion	301 U. Hellriegel, Energy efficient desalination with membrane capacitive deionization (MCDI): findings of theoretical and pilot studies	530 E. Tardy, Modeling of the two-phase transport in PEM fuel cell
12:15 - 12:30	288 T. Breugelmans, Engineering an industrial CO ₂ electrolyzer	270 J. Vos, Ion-Dependent Capacitive Deionization with Porous Carbon Electrodes	286 M. Carvela, Effect of operation temperature on the performance of Hydrogen-Chlorine PEM Fuel Cells
12:30 - 12:45	278 B. Endrődi, Up-scaling zero gap continuous-flow electrolyzer cells for the electrochemical reduction of carbon-dioxide	87 C. Linnartz, Particle Interaction in Slurry Electrodes Influencing the Charge Transport in Flow-Electrode Capacitive Deionization	25 M. Bermúdez Agudelo, Challenges in developing tubular high-temperature proton exchange membrane fuel cells (HT-PEM-FCs)
12:45 - 14:00	Lunch		

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14:00 - 14:40	Plenary: G. Kelsall, Material recovery from end-of-life batteries		
14:40 - 15:40	Session 16: Advances in CO2 electroreduction - II	Session 17: Electrochemical technologies for the environment - I	Session 18: Electrocatalysis and electrochemical technologies - I
14:40 - 14:55	616 L. Legrand, Toward market implementation of CO2 electrochemical reduction to formic acid	542 F. Miao, Tween 80 enhanced electrochemical remediation of phenanthrene contaminated groundwater containing high chloride content	612 D. Budáč, Conductivity of LSM-YSZ layer for thickness of active electrode zone identification
14:55 - 15:10	602 K. Petrov, Using bi-layer membranes to prevent drying-out during CO2 Electrolysis	459 L. Svecova, Is electro-assisted leaching a feasible option for the recovery of trace elements from municipal solid waste incinerator bottom ash?	444 E. Kecsenovity, Solar Photoelectroreduction of Nitrate Ions on alloyed PbI2/CuI photoelectrodes
15:10 - 15:25	405 H. Guzmán, Electroreduction of carbon dioxide on Cu-based mixed-metal oxide catalysts: tuning of syngas composition	302 E. Petrucci, Effect of cathode material on ozone electroreduction for the mineralization of emerging contaminants	193 T. Bystron, Anodic Oxidation of Iodobenzene Derivatives
15:25 - 15:40	258 B. De Mot, The importance of water management in Zero-Gap CO2 Electrolyzers	254 Z. Ye, Viability of a 2D Fe-MOF for advanced electrochemical water treatment under light irradiation	98 A. Raman, Electrolytic gas bubble evolution on a hydrophobic cavity
15:40 - 16:00	coffee break		
16:00 - 17:25	Session 19: Progress in electrocatalysis and electrocatalytic materials	Session 20: Electrochemical recovery of raw materials	Session 21: Electro-membrane and capacitive processes for advanced separation
16:00 - 16:25	682 X. Su, <i>Electrochemical engineering of redox-active systems for materials processing and selective separations</i>	31 M. Hatzell, <i>Photocatalytic nitrogen fixation: Prospects for Distributed Fertilizer Production</i>	681 M. Elimelech, <i>Nanopore-Based Power Generation from Salinity Gradient: Why It Is Not Viable</i>
16:25 - 16:40	413 G. Leftheriotis, Development of photoelectrochromic windows with improved optical and electrical performance	592 M. Rodrigues, Minimal Bipolar Membrane Cell Configuration for Scaling Up Ammonium Recovery	557 L. Monat, Electrodialysis processes for minimizing waste production in phosphoric acid plants
16:40 - 16:55	318 E. Kubiňáková, Encapsulation of electrochemical prepared ferrates by zeolites	568 T. Kim, Proton-mediated redox couple to enable ammonia removal and recovery	535 P. Fritz, Electrochemical protein separation – impact of electrode and solution characteristics
16:55 - 17:10	235 D. Pant, Development and upscaling of gas diffusion electrodes for wastewater treatment and electrosynthesis of chemicals	462 L. Bonin, Resource-efficient lithium and sodium recovery from brines using membrane electrolysis	442 T. Chen, A feasibility study of hybrid capacitive-electrodialysis deionization system for wastewater reuse in the high-tech industrial park
17:10 - 17:25	167 F. Wang, Investigation and characterization of in-situ polymer brush effects on Si anode material and its battery performance	281 F. Lapique, Beneficiation of jarosite waste assisted by electrochemical operations	336 A. Lissaneddine, Electrosorption using new biosourced porous electrode material for phenolic compounds removal and valorization – Electrochemical engineering aspects
17:25 - 17:40	159 K. Baitalow, Switchable Oxygen Depolarized Cathodes in flexible Chlor-Alkali Electrolysis		

Day 3: Wednesday 16 June			
09:20 - 10:00	Plenary: M. Rodrigo, The binomial Technology Readiness Level / Environmental Electrochemical Engineering: where are we and where are we going?		
10:00 - 11:00	Session 22: Advances in ion transport modelling	Session 23: Electrochemical technologies for the environment - II	Session 24: Bioelectrochemistry for energy conversion and resource recovery - I
10:00 - 10:15	574 M. Biesheuvel, The dynamics of combined ion transport and electrode reactions – Revisiting Bard, Faulkner, and Vetter	367 M. Ingelsson, Utilizing Polarity Reversal in Electrocoagulation to Reduce Electrode Passivation and Enhance Treatment Performance	478 S. Palmas, On the behaviour of low-cost MFC: The Contribution of Porous Support Materials
10:15 - 10:30	471 S. Özkul, Modelling ion transfer through ion exchange membranes in electrodialysis for multi-ionic solutions	285 M. Muñoz Morales, Development of jet electro-absorbers for the treatment of organochlorinated wastes	465 M. Mascia, 3-D Modelling of Fixed Bed Microbial Fuel Cells under Flow Conditions
10:30 - 10:45	453 R. Müller, Modeling electrode-electrolyte interfaces: The differential capacitance of polycrystalline surfaces and non-constant susceptibility	170 H. Bergmann, Electrochemical Treatment of Spent Wire Drawing Solutions	102 C. Borsje, The granular capacitive moving bed reactor for the scale up of bioanodes
10:45 - 11:00	339 J. Dykstra, Proton transport across anion exchange membranes in electrochemical systems	121 K. Denk, Electrochemical treatment of membrane concentrates	34 B. Shapira, The Feasibility of Energy Extraction from Acidic Wastewater by Capacitive Mixing with a Molecular-Sieving Carbon Cathode
11:00 - 11:20	coffee break		
11:20 - 12:45	Session 25: Water electrolysis and fuel cells - III	Session 26: Advances in capacitive electrodes for selective ion removal	Session 27: Bioelectrochemistry for energy conversion and resource recovery - II
11:20 - 11:45	600 I. Banerjee, <i>Technology development of water electrolyser design in applied & fundamental domain</i>	88 E. Guyes, <i>Long-lasting, monovalent-selective capacitive deionization electrodes</i>	680 A. ter Heijne, <i>Understanding and influencing biological conversions with electrodes</i>
11:45 - 12:00	420 S. Weusten, Improved reactor design using 3D printed electrolyzers	609 A. Arulrajan, Understanding pH changes during long-term operation of Membrane Capacitive Deionization (MCDI)	599 M. Mascia, Modelling of a Single Chamber Bio-Electrochemical Cell for Wastewater Treatment and Clean Energy Production
12:00 - 12:15	207 M. Tsampas, Solid electrolyte based photoelectrochemical cells for solar hydrogen production	311 E. Alhseinat, Novel Technic to enhance the capacity of Electrosorption Capacity: Application in Capacitive Deionization	375 M. Elzinga, Microbial reduction of organosulfur compounds in bioelectrochemical systems
12:15 - 12:30	194 V. Fateev, Some specific operating features of PEMFC with binary fuel at low temperatures	276 J. Lado, Performance Analysis of a Capacitive Deionization Stack Equipped with Graphite Felt 3D Composites Electrodes	219 F. Rivera, Theoretical and experimental evaluation of the potential-current distribution and the recirculation flow rate effect in the performance of a porous electrode microbial electrolysis cell (MEC)
12:30 - 12:45	108 M. Prokop, Interaction of H ₃ PO ₃ with Pt in concentrated H ₃ PO ₄ electrolyte at elevated temperatures	124 K. Singh, Tunable Ion Selectivity in Capacitive Deionization with Prussian Blue Analogues	26 S. de Smit, Boosting a biocathode by analysis: the invasive effects of cyclic voltammetry on microbial electrosynthesis
12:45 - 14:00	Lunch		

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14:00 - 14:40	Plenary: MZ. Bazant, Learning the Physics of Batteries from Image Data		
14:40 - 15:40	Session 28: Electrocatalysis and electrochemical technologies - II	Session 29: Electrochemical technologies for the environment - II	Session 30: Fast-tracking electrochemical innovations & matchmaking
14:40 - 14:55	366 E. Roberts, Production of High-Quality Graphene using a Novel Electrochemical Intercalation-Exfoliation Approach	615 J. Su, Electrochemical Reduction of Nitrate over Bimetallic Catalysts in Aqueous Solutions: Effect of crystal structure and surface morphology	From Lab to Plant: Accelerating implementation of electrochemical technologies <i>Organized by VoltaChem</i>
14:55 - 15:10	101 A. Ashaju, Electrocatalytic Reaction Driven Flow	338 F. Durán, Development of a scrubbing processes using absorbents-electrolytes to the elimination of volatile organic contaminants	
15:10 - 15:25	16 C. Hu, Electro-Membrane Separation: Mechanisms, Material and Reactor	331 Y. Shih, Electrochemical reduction of nitrate over Cu and Pd-Cu nanocatalysts as affected by crystalline morphology and facet	
15:25 - 15:40	15 J. Sun, Enhanced fouling mitigation of conductive membrane electrode by electro-repulsion and in-situ electro-cleaning in an electro-membrane reactor (EMR)	303 J. Hives, Ferrates(VI) and Environment	
15:40 - 16:00	coffee break		
16:00 - 17:30	Matchmaking session <i>Powered by New Energy Coalition</i>		

Day 4: Thursday 17 June			
09:20 - 10:00	Plenary: K. Chan, The role of double layer charging in electrochemical CO2 reduction		
10:00 - 11:00	Session 31: Novel electrodes for OER/ORR	Session 32: Electrochemical processes for sustainable energy and production of chemicals	Session 33: Electrochemical processes applications
10:00 - 10:15	564 J. Geppert, Monitoring Catalytic Changes by Microkinetic Modelling of the Oxygen Evolution Reaction	614 L. Ma, Transport and adsorption of organic micropollutants in reverse electrodialysis	573 V. Kyriakou, Redox Exsolution: A Novel Bottom-Up Catalyst Preparation Method for Efficient Electrochemical Energy Applications
10:15 - 10:30	461 M. Carda, Identification of rate determining step for OER and ORR in solid oxide electrochemical cell	562 R. Kunkel, Electrochemical Vanillin Reduction in a Flow Reactor: A Route to Biobased Polymers	540 P. Saha, Comparison of electrochemical and vacuum ultraviolet (VUV)-based oxidation processes for cooling tower blowdown treatment -a case study
10:30 - 10:45	306 M. Etzi Collier Pascuzzi, Bimetallic Ir-Mn oxides as electrocatalysts for the Oxygen Evolution Reaction in Acid	103 E. Andreou, Simulation Modelling for Sustainable Large-scale Electroforming	468 R. Latsuzbaia, Electrochemical process development for production of bio-based maleic acid
10:45 - 11:00	192 V. Gueskine, Oxygen reduction reaction at conducting polymer electrodes: Insights from DFT modeling	41 C. Simões, Multistage reverse electrodialysis effect for energy generation	63 J. White, Mass transport effects on the electrooxidation of glycerol on electrodeposited palladium-nickel catalysts
11:00 - 11:20	coffee break		
11:20 - 13:00	Session 34: Electrochemical technologies for the environment - III	Session 35: Electrocatalysis and electrochemical technologies - III	Session 36: Electrochemical engineering for CO2 capture
11:20 - 11:45	359 I. Sirés Sadornil, Changing the configuration of an air-diffusion cathode reactor to operate Fenton-based treatments of organic pollutants in continuous mode	215 R. van de Sanden, Plasma activated electrolyser for nitrogen fixation by water	490 T. Hatton, Electrochemically Modulated Mitigation of Acid Gas Emissions
11:45 - 12:00	333 F. Adnan, Influence of Micrometric Inter-Electrodes Distance and Water Hardness on Mineral Scaling at Electrode Surface during Electrochemical Advanced Oxidation Process	209 O. Cornejo, Design and characterization of a novel flow-through electrochemical reactor for hydrogen peroxide electrosynthesis directed to the incineration of organic compounds by electrochemical advanced oxidation processes	598 R. Sharifian, Harvesting CO2 from the ocean for circular electrochemical carbonate mineralization
12:00 - 12:15	199 J. Llanos, Advanced treatments for depleting non-polar organochlorine pesticides from concentrated sludges	189 K. Wenderich, Towards anodic H2O2 production as a profitable commodity chemical in PEC water splitting	494 Q. Shu, Combined electrochemical desorption of CO2 and recovery of alkaline sorbent for direct air capture
12:15 - 13:00	CWME Award Ceremony		
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14:00 - 14:40	Award lecture: C. Comninellis
14:40 - 15:10	ESEE 2021 Awards and Closing Ceremony
15:10 - 16:00	coffee break
	Tutorials
16:00 - 16:45	M. Koper, Molecular theory of the Butler-Volmer rate law
16:45 - 17:30	M. Biesheuvel, Ions in water near and in electrodes. Mass transport and reaction modeling as simple as possible

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205 A. Alazmi, Exploring the impact of reduced graphene oxide surface texture as an electrocatalyst in redox flow batteries
259 A. Anthes, Purification of gadolinium- and platinum-containing pharmaceutical wastewater by an electrochemical controlled sorption process
452 A. Arulrajan, Exceptional Water Desalination Performance with Anion-Selective Electrodes
280 I. Atlas, Maximum available energy during desalination using chemical energy inputs
608 G. Bampos, Pd-Based Bimetallic Electrocatalysts for the Hydrogen Oxidation Reaction in Alkaline Medium
296 Y. Belaustegui, Three-dimensional reduced graphene oxide electrodes for capacitive deionization
383 E. Beletskii, Overcharge voltage effect on the LiFePO ₄ Cathodes of Li-Ion Batteries
519 P. Berg, Modelling transport phenomena in Nafion with a pore-network approach
181 H. Bergmann, Improvements in Calculating OH Radical Concentration Profiles at a BDD Anode for Water Electrolysis
198 S. Bhandari, Stabilizing Effect of Platinum on Iron-Based Electrocatalysts in Polymer Electrolyte Membrane Fuel Cells
477 R. Bisselink, Electrochemical conversion of acid hydrolysis products derived from sugars
423 J. Blake, Modelling of Gas Diffusion Electrode Catalyst Layers for CO ₂ Reduction
126 B. Branco, Towards an up-scalable artificial leaf by integration of printing methodologies
479 Y. Bultel, Liquid/solid suspension in vanadium redox-flow battery
214 T. Cadden, Nanostructured Tungsten Oxide Architectures for Electrochemical Energy Storage
587 M. Carda, PEM FC stack operating conditions and in operando fuel impurities removal
534 K. Denk, Membrane alkaline water electrolysis stack design and characterization
521 P. Fischer, Adsorption of hydrogen on platinum nanoparticles in aqueous electrolyte solution – impact of external electric potential
272 S. Genthe, Challenges of developing an electrically rechargeable zinc-air battery with a zero gap electrode arrangement
499 S. Georg, Role of fermentative hydrogen as electron donor in bio-electrochemical systems for nutrient recovery
223 S. Gonzalez-Poggini, Effect of Ti ₃ C ₂ T _x nanosheets (MXenes) in the electrocatalytic activity of SnO ₂ Ti anodes for the degradation of methyl red
19 V. Hoang, Heterostructured Ni/NiO Nanoparticles on Biomass-derived Hierarchically Porous Carbon as A Highly Efficient Bifunctional Electrocatalyst for Alkaline Water Electrolysis
464 L. Huidobro, Carbon nanofibers doped with metals for air-cathodes. Oxygen reduction reaction characterization and application in microbial desalination cells
506 S. Kandhasamy, Challenges behind long-term cyclability of Intermediate Temperature Sodium Sulfur (IT-NaS) Battery
315 V. Karastoyanov, Composition, electrical and optical properties of nanoporous TiO ₂ doped with iron and molybdenum oxides
374 H. Kim, Optimization of RED stack design for upscaling feasibility

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308 R. Kupec, ElektroDeHalo – Adsorption and electro-degradation of halogenated pollutants
496 A. Laube, Development and performance analysis of a tubular PEM electrolysis cell
202 T. Lemmermann, Development of standardized characterization routine for membranes in vanadium redox-flow batteries
244 J. Llanos, Strategies for increasing the efficiency of the electrochemical degradation of polar organochlorine pesticides
559 M. Łuba, Hydrogen Evolution Reaction on CoMo- and MoNi-alloy Modified Nickel Foam Surfaces
492 A. Maćkowiak, Deep Eutectic Solvents Based on Lithium Nitrate and Acetamide as Electrolytes in High-Temperature Electric Double-Layer Capacitors
566 J. Mališ, Investigation of impurities content in the hydrogen on a cell voltage distribution in the PEM fuel cells stack
113 A. Marquez, Electrochemical Incineration of the Methyl Orange Textile Dye by Anodic Oxidation, Electro-Fenton and Photoelectro-Fenton Processes
388 M. Martí Calatayud, Concentration of organic acids by electrodialysis: identification of mass transfer phenomena by means of electrochemical impedance spectroscopy
460 T. Matthée, The ElectroSynthesis Starter Kit - Exploring Electrochemistry
158 I. Merino-Garcia, Polyacrylic acid modified anion-exchange membranes with mono-selective and antifouling properties for RED
240 A. Molaei, Desalination based on p- and n-type conducting polymers
140 J. Mrlík, Investigating the deactivation of negative felt electrode of vanadium redox flow battery
279 F. Murrieta, Electrochemical degradation of sulfamethoxazole by a Fenton-type process promoted by electrogenerated HClO and dissolved Fe ²⁺
268 U. MUSHTAQ, Development of proton conducting solid oxide electrolysis cell electrode tailored for CO ₂ reduction into useful products.
35 G. Muungani, Capacitive deionization of brackish water using phyllosilicates
327 J. Nava, Design and characterization of an interdigitated bipolar plate to be used in an AEM fuel cell
317 E. Ortega, Synthesis of Pd nanoparticles on smooth Ni electrodes for hydrogen production application by different electrochemical techniques.
262 M. Paidar, Optimization of preparation of ceramic electrolytes based on ZrO ₂ -Y ₂ O ₃ suitable for high temperature cells with ceramic oxides
474 S. Palmas, Experimental study on the optimisation of pollutants removal by photo-electrochemical oxidation with TiO ₂ nanotubes
567 R. Passalacqua, NiFe Oxides as Anodic Materials for the Electrocatalytic Oxidation of Glucose to Glucaric Acid
224 V. Pérez-Herranz, Efficient removal of CVP by electrochemical oxidation using different anodes
225 V. Pérez-Herranz, Influence of the presence of a cation-exchange membrane for electro-oxidation of CVP using BDD or low-cost ceramic anodes
545 V. Pérez-Herranz, Improvement of the mineralization efficiency of a Sb-doped SnO ₂ ceramic electrode by electrofiltration
292 E. Petrucci, Fabrication and properties of mixed multilayer electrodes based on Ruthenium and Copper oxide
322 K. Plakas, Electrochemical treatment of agrochemical manufacturing industry wastewater and landfill leachate
539 M. Plevová, Preparation of catalyst coated membrane for alkaline water electrolysis: influence of the substrate and preparation method
345 M. Pupo, Influence of Ti/(SnO ₂) _{0.84} (Sb ₂ O ₅) _{0.16-x} (La ₂ O ₃) _x anodes synthesised through laser heating

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283 A. Pushkarev, Performance study of oxygen concentrator with polymer electrolyte membrane
332 A. Pushkarev, Carbon nanomaterials modified using magnetron-ion sputtering
549 P. Richtr, Development of oxygen reduction and oxygen evolution electrodes for alkaline zinc-air flow battery
213 F. Rivera, CFD modelling and characterization of different electrochemical reactors to be used as All-Vanadium Redox Flow Battery
357 L. Ruotolo, High-Performance Polyaniline-Derived Carbon Electrodes for Brackish Water Desalination
360 L. Ruotolo, Comparison of BDD and three-dimensional RVC/PbO ₂ electrodes for electrochemical oxidation of glyphosate wastewater
398 I. Ryzhkov, Preparation of composite porous anodic alumina – carbon nanotube membranes for tunable ion transport: experimental and modelling study
597 A. Samu, Effect of the operating parameters on electrocatalytic CO ₂ reduction in a zero-gap cell
275 B. Sánchez Batalla, Tubulyze: tubular Proton Exchange Membrane water electrolysis cells
377 C. Simões, Electrode segmentation in reverse electro dialysis for energy generation
552 S. Spiess, Bioelectrochemical Methanation of CO ₂ from Untreated Steel Mill Gas
148 M. Stehle, Polymer electrolyte membranes from pre-irradiation induced graft copolymerization of 2-acrylamido-2-methylpropane sulfonic acid and acrylic acid on ETFE and PVDF – syntheses and vanadium redox-flow battery applications
118 A. Sustronk, How adding CO to CO ₂ changes the performance of flow-through porous copper electrodes
406 P. Thivel, Analysis of drone battery performances and commercial charger protocols
400 R. Uwayid, Characterizing the degradation of oxidized cathodes during capacitive deionization cell cycling
553 E. van der Veer, Ferroelectric lithography for energy harvesting
554 A. Venger, Structure of SIX2a, associated with electrocytes of <i>Electrophorus electricus</i>
556 O. Venger, Structure and ligands of EFA01355 protein of electric ray <i>Torpedo nobiliana</i>
267 J. Záchenská, Electrochemical preparation of nickel-based electrodes for HER in alkaline water electrolysis