

Scientific Program

Tuesday June 27th 2023

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7h40-8h00									7h40-8h00
8h00-8h20									8h00-8h20
8h20-8h40									8h20-8h40
8h40-9h00									8h40-9h00
9h00-9h20		467278: New intermetallic Pt-Co based catalysts for usage in high-temperature proton-exchange membrane fuel cells. Jan Dismas Buránek, Tomas Bystron, Karel Bouzek, Martin Prokop, Nejc Hodnik, Matija Gatalo, Luka Pavko			468497: Alkaline electrolysis for the treatment of tar-containing wastewater generated from biomass gasification plant. Michele Mascia, Annalisa Vacca, Laura Matis, Nicola Melis, Elisabetta Maria Usai		Section Tu-C1, Topic 7: Electrodeposition-Electrocrystallization-Electrochemical machining and applications (refining, recycling of the raw metal-lic materials, urban mining, surfaces treat-ment/modification...). Chair Proposed: Pierre Chamelot	Seland Frode Invited 451076: Anode processes in zinc electrowinning: Deposition and removal of manganese oxide at noble metal surfaces	9h00-9h20
9h20-9h40	Section Tu-A1, Topic 3: Energy conversion and storage. Chair Proposed: Ann Mari Svensson	468756: Pt-based Bimetallic Electrocatalysts for Oxygen Reduction Reaction in Alkaline Medium.Georgios Bampou, Ahanassios Diamantis, Symeon Bebelis		469619: Electrolysis as a Preconcentration stage of the Electrochemical Oxidation of Micropollutants. Sorption and Transport through Ion-Exchange Membranes of three Micropollutants. Manuel César Martí-Calatayud, María Ruiz-García, Juan José Giner-Sanz, Jordi Carrillo-Abad, Montserrat García Gabaldón, Valentín Pérez Herranz.		469545: Effects of glycine and polyethylene glycol additives on zinc and zinc-nickel alloy electrodeposition mechanism in acid electrolytes. Peñi, Sébastien Dillens, Alejandro Asturias, Nicolas Stael, Claude Boulanger	9h20-9h40		
9h40-10h00		466463: Electrodeposited NiCoP Cathode Catalyst for Alkaline Electrolysis of Water. Martin Dušovič, Jánosir Huš, Karel Bouzek		467299: Influence of Biomass Nature in the Electrochemical Production of H2O2 from Biomass Wastes. Álvaro Ramírez, Martín Muñoz, Esteb López, Francisco J. Fernández, Javier Llano		464766: A parameter study of gold recovery from electronic waste by electrowinning in a continuous flow module. Hanmolee Andries, Michel De Rop, Jonas Herijgers, Tom Bruegelmans	9h40-10h00		
10h00-10h20									10h00-10h20
10h20-10h40									10h20-10h40
10h40-11h00		468483: Bifunctional catalyst for enhancing the efficiency of the reversible alkaline fuel cell. Dita Honová, Jánosir Huš, Karel Bouzek		465803: Efficient removal of Benzene using an integrated unit of electro-absorption by 3D-printing. Rafael Granados Fernández, Carmen Fernández-Marchante, Justo Lobato, Manuel A. Rodrigo		466994: Electrodeposited Nickel Catalysts for the Oxygen Evolution Reaction: Effect of Support Material and Catalyst Loading. Yashwantan Dos, Niklas Thissen, Anna K. Meissler	10h40-11h00		
11h00-11h20	Section Tu-A2, Topic 3: Energy conversion and storage. Chair Proposed: Gibilaro Mathieu	469609: Feasibility of Chronoamperometric and Electrochemical Quartz Cristal Microbalance. Claudia Weidlich, Meiser Valencia, Felix Lulay, Matthias Wieland		467516: Simultaneous arsenic, fluoride, and hydrated silica removal from groundwater by electrocoagulation: Comparison of sacrificial anodes (Al, Fe, and Al-Fe). Castaño, Lockley, Nava, José		464879: High-performing Ni-foam based bifunctional electrocatalysts for industrial alkaline electrolysis. Morten L. Frederiksen, Lars P. Nielsen, Anders Bæten	11h00-11h20		
11h20-11h40		468795: Dependence of Ni cathodic and anodic kinetic activity on electrolyte concentration and temperature. Katerina Hrušecová, Jánosir Huš, Karel Bouzek				471187: Copper Electrodeposition from Green Ammonia. Sudipta Roy, C. Tambe.	11h20-11h40		
11h40-12h00		469693: Proof of concept of different microbial fuel cells designed by 3D printing and using hydrogel as separator/organic carrier. Jukka; Rodriguez-Gómez, Álvaro; Granados-Fernández, Rafael; Fernández-Pacheco, Fiter Vázquez; Rodríguez, Manuel; Andrade; Fernández-Marchante, Carmen María				467303: Electrochemical separation and recovery of valuable materials from end-of-life lithium-ion batteries. Xiaochu Wei, Geoff Kellsall, Anna Hankin	11h40-12h00		
12h00-13h20									12h00-13h20
13h20-13h40									13h20-13h40
13h40-14h00									13h40-14h00
14h00-14h20									14h00-14h20
14h20-14h40		468280: Prediction of Electrical Conductivity of Ceramic Composites Using Monte Carlo 3D Equivalent Circuit Network Model. Daniel Budík, Vojtěch Mlýk, Michal Čada, Martin Pařík, Karel Bouzek		477463: Why efficient utilization of CO2 and water in electrolysis really matters. Vermaas, David		467403: Overview, Analysis and Design of Electrolysis Experiments for the Application of Screening Methods. Burkhard Heerkens, Dennis Dogan, Andreas Müller, Guido Wasserschaff, Henning Tempel, Rüdiger A. Eichel	14h20-14h40		
14h40-15h00	Section Tu-A3, Topic 3: Energy conversion and storage. Chair Proposed: Davide Clematis	475653: Chemically-dealloyed PtPdPb-based ternary anode nanocatalyst for application in direct methanol fuel cells.Mehmet Gelençeli Geben, Palaniappan Subramanian, Péter Békésy, hay Páros, Sarosh Sasi, Rosilaw Molina, Jun Minar, Hayo Kowalewski, Alex Scheerer		465369: Study of electrolysis for the extraction of biologically produced organic acids from CO2. Robin CAVERRIERE, Hélène Roux-de Baisemez, Sylvain Galler		468189: Development of anodic electrodes using carbon materials from varied origins to electrochemically produce H2O2. Martin Malhotra-Montes, Álvaro Ramírez, Javier Llano, Conchi Asua	14h40-15h00		
15h00-15h20		467960: Performance of Silicon anodes and Li _{1-x} Mn _{1.5-x} O ₄ cathodes in Ionic Liquid Electrolytes. Daniel Rogstad, Inge-Emma Nyland, Mika Seiner Malmér, Hélène Lefèvre Langlo, Ann Mari Svensson		468302: Process engineering for electrochemically switchable adsorption of carbon monoxide.Christel Koopman, David Vermaas, Jelko Albertus, Monique van der Ven		463591: SLM 3D printed industrial electrodes for alkaline water splitting. Tourmeur Jeoffrey, Perrin Loïc, Paul Stéphane, Fabre Bruno,	15h00-15h20		
15h20-15h40									15h20-15h40
15h40-16h00									15h40-16h00
16h00-16h20		465737: Electrocatalysis on conducting polymers.Vojtěch Mlýk							
16h20-16h40		467137: Stability of Proton Exchange Membranes in Liquid Water at Elevated Temperature and Pressure.Tereza Baskinová, Martin Prokop, Tomáš Bystron, Zbyněk Pientka, Vaclav Pokorný, Karel Bouzek							
16h40-17h00	Section Tu-A4, Topic 3: Energy conversion and storage. Chair Proposed: Lynden A. Archer	467071: The Development of Inner Microstructure During Solid-state Sintering: New In-operando Techniques.José Cerdà, Lluís Novak, Daniel Budík, Martin Pařík, Karel Bouzek							
17h00-17h20		455827: Towards real-time monitoring and diagnostics of lithium-ion batteries with fiber optic sensors.Steven T. Boles, Julien Bonnefond, Sasan Ghoshgheib (? Visa)							
17h20-17h40		466820 : Decoupled Supercapacitive Electrolyzer for Membraneless Water Splitting. Esteban Toledo-Carrillo, María García-Rodríguez, Lorena Sánchez-Morales, Joydeep Datta (? Visa)							
17h40-18h00									
18h00-18h20									18h00-18h20
18h20-18h40									18h20-18h40
									18h40-19h00

Surprise