



EMR2018 CONFERENCE

PROGRAM OUTLINE

Conference schedule

Thursday, 8 November 2018

- | | |
|--------------------|--|
| 10:00-11:00 | Registration and coffee
The conference/registration desk will be placed at the main hall. In any case, attendees will be able to pick up the conference materials at the registration desk at any time on 8 November |
| 11:00-13:00 | Welcome speech and oral session |
| 13:00-14:00 | Lunch break (buffet at the main hall) |
| 14:00-15:30 | Oral session |
| 15:30-16:00 | Poster session and coffee break (at the main hall)
Posters are expected to be posted during the whole day. Presenters are expected to be available for discussion of their posters during the poster session.
Please check the code given to your poster. That code indicates which panel you must stick your poster to. |
| 16:00-17:30 | Oral session |

Friday, 9 November 2018

- | | |
|--------------------|---|
| 09:30-10:00 | Coffee (at the main hall) |
| 10:00-13:00 | Social program (city tour of Malaga by bus) |
| 13:00-14:00 | Farewell lunch (buffet at the main hall) |

Thursday, 8 November 2018

ORAL PRESENTATIONS

Chair: Kyriakos C. Stylianou, Federal Polytechnic School of Lausanne (Switzerland)

- 11:00-11:30 | Photocatalytic Applications from Visible-Light Responsive Metal-Organic Framework Systems
Kyriakos C. Stylianou
- 11:30-12:00 | Experimental program in a pilot plant under partial oxy-combustion conditions: Sterically hindered amine solvents
Sara Camino Peñuela
- 12:00-12:30 | Fabrication of SiNW array and Deposition of Bifunctional Cobalt Phosphide thin film for Improved Solar Hydrogen Evolution
Sitaramanjaneya Thalluri
- 12:30-13:00 | Optimisation of flywheel energy storage
Edgar Vercruysse
- 13:00-14:00 | **LUNCH BREAK (Buffet at the main hall)**

Chair: Iuliia Ipatova, Bangor University (United Kingdom)

- 14:00-14:30 | Irradiation-induced nanoscale structure damage in Tungsten-Tantalum alloys for nuclear fusion reactors
Iuliia Ipatova
- 14:30-15:00 | Electrochemically Active Glass Separators for Lithium-Ion Batteries
Ulrich Schadeck
- 15:00-15:30 | Lignin recovery from lignocellulosic biomass by deep eutectic solvent technology
Javier Nieto Maestre
- 15:30-16:00 | **POSTER SESSION & COFFEE BREAK (at the main hall)**

16:00-16:30	Morpho-chemical behavior of Brazilian sugar cane residues ashes related to energy conversion processes Kelly Roberta de Palma
16:30-17:00	Surface segregation of Pd-based alloys: thermodynamic modelling and low energy ion scattering Meng Zhao
17:00-17:30	Valorization of underutilized biomass material and energy resources for the circular low-carbon bioeconomy Lew P. Christopher

POSTER PRESENTATIONS

Thursday, 8 November 2018 | Main Hall

From 15:30 to 16:00

Code	Title	Presenter(s)
28	Properties and applications of Carbon nanodots from ionic liquids	Christian Chimeno Trinchet
29	Development of a new coating technology to enhance the functional properties of IT-SOFC stainless steel interconnects	Claudia Paoletti
30	A PWM Algorithm for Three-Level Quasi-Switched Boost T-Type Inverter to Reduce DC-Link Voltage	Geum-Bae Cho
31	A Design of Three-Phase Cascaded H-Bridge Quasi-Switched Boost Inverter for Photovoltaic Application	Geum-Bae Cho
32	Production of second generations of biofuels by co-processing of atmospheric gasoil with rapeseed oil over supported sulphur free carbide and nitride molybdenum catalysts	Héctor De Paz Carmona
33	Development of TiO ₂ /SiO ₂ films on borosilicate glass for photocatalytic applications in gas phase	José Antonio Navío
34	Conditioning natural and waste waters with the use cavitation technologies	Kulagin Vladimir
35	Utilization of binary fuel systems	Kulagina Tatiana
36	Seawater and solar energy to obtain copper crystals	Maria Elisa Taboada M.
37	Ni-Based Nanowire Co-catalysts Integrated with a Si Photoanode for Efficient Water Oxidation	Meshal Aljohani
38	Challenges of Material Selection for Future Biomass Combustion Systems	Sabine Feldmeier
39	Numerical Simulation of Rotating Vertical Solidification	Sabrina Nouri
40	Exploit of limestone dust as lightweight aggregates into building products	Saida Kitouni

41	CO ₂ capture experiences in a spray column operating under partial oxy-combustion conditions	Sara Camino Peñuela
42	Use of calorimetric measurements to determine reaction kinetic for Li ₂ CO ₃	Teófilo A. Graber
43	Flexible, Heat-Resistant and Flame-Retardant Glass Fiber Nonwoven/Glass Platelet Composite-Separator for Lithium-Ion Batteries	Ulrich Schadeck

VIRTUAL PRESENTATIONS

(available at the online platform on the conference website from 2 to 9 November)

Title	Presenter(s)
A new decentralized control system for energy saving based on storage devices	Diego A. López García
Problems of hydrogen energy and their solution	Nikolay Efimovich Galushkin