

Energy, Fuels and Environment (EFE 2022) 22.09.2022

Oral Session 3

<i>No</i>	<i>Time</i>	<i>Authors</i>	<i>Institution</i>	<i>Topic</i>
1	9 ⁰⁰ -9 ²⁰	A. C. Benim	Duesseldorf University of Applied Sciences, Germany	<i>Case studies on waste heat recovery and cogeneration via thermoelectric generators (keynote lecture)</i>
2	9 ²⁰ -9 ⁴⁰	M. Mobedi (on-line)	Shizuoka University, Japan	<i>Classification of PCM Heat Exchangers for thermal energy storage (keynote lecture)</i>
3	9 ⁴⁰ -10 ⁰⁰	Ravipudi Ventaka Rao (on-line)	National Institute of Technology, India	<i>Renewable energy forecasting using deep neural networks trained by Rao algorithms (keynote lecture)</i>
4	10 ⁰⁰ -10 ²⁰	Daniel Jaworski, Arkadiusz Dawczak, Aleksandra Mielewczyk-Gryń, Tadeusz Miruszewski, Wojciech Skubida, Maria Gazda	Politechnika Gdańska	<i>Compositionally complex materials for electrochemical applications (Keynote Lecture)</i>
5	10 ²⁰ – 10 ⁴⁰	Jakub Lach, Kun Zheng, Ryszard Kluczowski, Konrad Świerczek, Anna Niemczyk	AGH University of Science and Technology, Cracow Poland	<i>Development of new copper-contained perovskites $La_{1-x}Sr_xNi_{1-y}Cu_yO_{3-\delta}$ as air electrode materials for boosting the performance of reversible SOCs</i>
6	10 ⁴⁰ -11 ⁰⁰	Maciej Siekierski, Karolina Majewska, Maja Mroczkowska-Szerszeń,	Warsaw University of Technology, Warsaw, Poland	<i>Composites of phosphate-silicate proton-conductivte glass with uranyl hydroxy-</i>

		Rafał Letmanowski, Piotr Ryś, Wojciech Pudelko, Magdalena Dudek, Aldona Zalewska, Norbert Obarski		<i>phosphate and hydroxy-arsenate obtained by mechano-chemical synthesis</i>
7	11⁰⁰-11²⁰	Grzegorz Gruzeł, Kamil Szmuc, Elżbieta Drzymala, Przemysław Piekarz, Anna Pajor-Świerzy, Andrzej Budziak and Elena Pastor	University of Rzeszów	<i>Nanoframes-based catalysts for ethanol electro-oxidation in Direct Ethanol Fuel Cells</i>
<u>Coffee break 11²⁰-11³⁰</u>				
<i>Oral session 4</i>				
8	11³⁰-11⁵⁰	Katarzyna Zarebska, Jakub Szczurowski, Ewelina Brodawka, Mieczysław Balys, Paweł Baran	AGH University of Science and Technology, Cracow, Poland	<i>Hydrogen storage - the experience of our research team</i>
9	11⁵⁰-12¹⁰	Tayfur Öztürk	Department of Metallurgical and Materials Engineering, Middle East Technical University, Ankara Turkey	<i>Development of amorphous/nanocrystalline LSC based cathodes for IT-SOFC</i>
10	12¹⁰-12³⁰	Rafał Koziński	AVL Warsaw Poland	<i>Fuel Cells and hydrogen technology</i>

				<i>(AVL experience)</i>
11	12 ³⁰ -12 ⁵⁰	<u>Marcin Pająk</u>, Shinji Kimijima, Janusz Szmyd	AGH University of Science and Technology, Cracow, Poland	<i>Optimization of temperature distribution in steam reforming with radially structured catalyst</i>
12	12 ⁵⁰ -13 ¹⁰	Adam Saferna, Piotr Saferna, <u>Henryk Rydarowski</u>, Adam Szurlej Magdalena Dudek, Szymon Kuczyński, Tomasz Włodek	Tech Plast AGH University of Science and Technology, Cracow, Poland	<i>Technology of ultra-light composite hydrogen storage tanks for distributed energy systems</i>
13	13 ¹⁰ -13 ³⁰	Radosław Jankowski, Rafał Ślefarski, Karol Gołoś, Bartosz Ciupek	Poznan University of Technology, Institute of Thermal Energy, Poznan	<i>Study on co-combustion process of H₂/CH₄ mixtures in high-temperature thermal processes</i>

Lunch 13⁴⁵-14⁴⁵

Oral session 5

14	15 ⁰⁰ -15 ²⁰	Michał Rejdak , Grzegorz Gałko, Małgorzata Wojtaszek-Kalaitzidi, Bartosz Mertas, Anna Rodź, Robert Baron, Michał Książek, Sten Yngve Larsen	Institute of Energy and Fuel Processing Technology	<i>The influence of charcoal addition to coking blend on bio-coke quality parameters</i>
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15	15 ²⁰ -15 ⁴⁰	Ślęfarski Rafał, Czyżewski Paweł, Jankowski Radosław, Gołębiewski Michał	Poznan University of Technology, Institute of Thermal Energy, Poznan	<i>Study on combustion of ammonia/gaseous fuels mixtures in flameless combustion process</i>
16	15 ⁴⁰ -16 ⁰⁰	Enzo Cording , Julian Hausweiler, Teodora-Patricia Lazar, Andres Felipe Percy Toscano, Cesar Valderrama	Universitat Politècnica de Catalunya·Barcelona, Spain	<i>Moving away from Russian gas: A holistic lifecycle comparison between Russian gas and American LNG</i>
17	16 ⁰⁰ -16 ¹⁵	Maciej Róziwicz Agata Łamacz, Janusz Trawczyński, Joanna Oczeretko	Wroclaw University of Science and Technology	<i>Metal-organic frameworks for CO₂ hydrogenation to methanol</i>

Coffee break 16¹⁵-16³⁰

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17	16 ³⁰ -16 ⁵⁰	Michał Mosialek, Robert P. Socha, Wiesław Łasocha, Algimantas Kežionis, Tomas Šalkus, Edvardas Kazakevičius, Antanas Feliksas Malgorzata Dziubaniuk, Jan Wyrwa, Muhammad Bilal Hanif, Martin Motola	Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences,	<i>Properties of scandia and ytterbia doped zirconia examined by broadband impedance spectroscopy, XRD, SEM and XPS</i>

18	16 ⁵⁰ -17 ¹⁰	Piotr Ryś, Maciej Siekierski, Piotr Biczal	Warsaw University of Technology	<i>Impedance spectra analysis in lead-acid batteries and application of Gerischer element in lead-acid battery equivalent circuits</i>
19	17 ¹⁰ -17 ³⁰	Kun Zheng, Jakub Lach, Paweł Czaja, Agnieszka Brzoza –Kos	AGH University of Science and Technology, Cracow, Poland	<i>Designing perovskites with in situ exsolution of nanocatalysts for boosting performance of symmetrical SOFCs</i>
20	17 ³⁰ -17 ⁵⁰	Jacek Leszczyński, Dominik Gryboś, Bartosz Kozera, Jan Markowski	AGH University of Science and Technology, Krakow, Poland Compact electro-	Compact electro-pneumatic linear drive prototype for air compression and expansion for use in compressed air energy storage system
21	17 ⁵⁰ – 18 ¹⁰	Jarosław Markowski, Grzegorz Ślaski, Paweł Imilkowski, Jacek Madry, Magdalena Dudek, Andrzej Razniak, Bartłomiej Lis, Mariusz Walkowiak, Rafał Grzeszczyk, Adam Wrona	Poznan University of Technology,	<i>Electric car energy management strategy with an additional – Fuel Cell power module working in a continuous manner</i>