



World Online Conference on Sustainable Technologies
21 March, 2022

Time zone
UTC+1

Program

Opening Session

Chaired by Chung-Jen Tseng

| | |
|----------------------------|---|
| 9:00-9:10 | Welcome address & presentation of HYPOTHESIS XVII |
| 9:10-9:30 | <u>V. Sivcev</u> , I. Kovalev, R. Guskov, M. Popov and A. Nemudry - Manufacturing of multichannel solid oxide fuel cells via FDM 3D printing |
| 9:30-9:50 | M. P. Popov, <u>R. D. Guskov</u> , I. V. Kovalev and A. P. Nemudry - Study of $\text{SrCo}_{0.9}\text{Ta}_{0.1}\text{O}_{3-\delta}$ kinetic characteristics via oxygen partial pressure relaxation technique |
| 9:50-10:10 | <u>Özgür Aydın</u> - In-Depth Numerical Analysis of the Complications Introduced to SOFCs by Ammonia Utilization |
| 10:10-10:30 | <u>Sasmoko</u> , S.W. Lee, M. Bhavanari, W. Wijayanti, and C. J. Tseng - Thermodynamic study of hydrocarbon fed PCFC/GT hybrid systems |
| 10:30-10:35 | Break |
| Intermediate session | |
| Chaired by Rodolfo Taccani | |
| 10:35-10:55 | <u>V.A. Shilov</u> , V.N. Rogozhnikov, P.V.Snytnikov, D.I. Potemkin, V.A. Sobyenin - Rh-containing structured catalyst for autothermal reforming of gasoline and diesel |
| 10:55-11:15 | A.M. Gorlova, I.E. Karmadonova, V.S. Derevshchikov, P.V. Snytnikov, <u>D.I. Potemkin</u> - Sorption-enhanced water gas shift: MgO-based sorbents for the intensification of hydrogen purification processes |
| 11:15-11:35 | <u>E. Kozlova</u> , D. Vasilchenko, A. Zhurenok - Synthesis of highly efficient g-C ₃ N ₄ -based photocatalysts for hydrogen production with low platinum content |
| 11:35-11:55 | <u>Francesco Bonafede</u> , Sonia Carbone, Biagio Buccheri, Fabrizio Ganci, Bernardo Patella, Giuseppe Aiello, Rosalinda Inguanta - Performance of nanostructured Ni-Fe alloy electrodes for seawater electrolyzer. |

| | |
|---|---|
| 11:55-12:15 | <u>Sonia Carbone</u> , Francesco Bonafede, Fabrizio Ganci, Bernardo Patella, Giuseppe Aiello, Rosalinda Inguanta - Ni alloy nanowires for alkaline electrolyzers |
| 12:15-12:35 | <u>D. Pivetta</u> , C. Dall'Armi, G. Volpato, G. Carraro, L. Da Lio, A. Lazzaretto, and R. Taccani - Energy and economic analysis of the local hydrogen production via electrolysis for industrial port districts |
| 12:35-13:15 | Break |
| Closing session <i>Chaired by Giuseppe Spazzafumo</i> | |
| 13:15-13:35 | <u>A. Sgaramella</u> , L.M. Pastore, G. Lo Basso, and L. de Santoli - Increasing the Italian RES installation targets for accomplishing the electrolyzers capacity goals set by the Italian Hydrogen Strategy |
| 13:35-13:55 | <u>E. Anikina</u> , V. Verbetsky - Influence of composition on hydrogen sorption properties of $Ti_{0.9}Zr_{0.1}Mn_{1.3}V_x$ ($x=0.5, 0.6, 0.7$) |
| 13:55-14:15 | <u>A. Kazemi</u> , J. Moreno, and D. Iribarren - Selecting the objective function in optimisation of power generation and energy transmission systems |
| 14:15-14:35 | <u>M. Rodríguez</u> and D. Borio - Selective CO ₂ capture using solid sorbents: theoretical study |
| 14:35-14:55 | <u>P. S. Belzunce</u> , and M. L. Rodríguez - Flue gas feeding strategies for ethanol steam reforming in a microplate reactor |
| 14:55-15:00 | Concluding remarks |



H2international
E-JOURNAL ON HYDROGEN AND FUEL CELLS

Links to the recorded sessions

[Opening session](#)

[Intermediate session](#)

[Closing session](#)