

## Poster Session II

Wednesday, 22 October, 12:50 to 14:50 hrs

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| 1  | Skin-inspired stretchable biogel enables high-performance moisture-electric generation and AI-enhanced closed-loop hydration regulation<br><b><u>Jiangtao Li</u>, Beibei Shao, Baoquan Sun</b>                                                                                                                                     |
| 2  | A systematic growth optimisation procedure for spray pyrolysis grown zinc tin oxide<br><b>C. Cooling, K. Fleischer</b>                                                                                                                                                                                                             |
| 3  | Synthesis and Thermokinetic Analysis of Thermochromic VO <sub>2</sub> Particles for Smart Window Applications<br><b>K. Elen, L. Calvi, L. Leufkens, R. Habets, D. Mann, P. Buskens, A. Hardy, M. K. Van Bael</b>                                                                                                                   |
| 4  | Influence of Substrate Temperature and Laser Fluence on the properties of CsPbBr <sub>3</sub> Thin Films grown by Pulsed Laser Deposition technique<br><b>K. Maitianos, S. Milanese, G. Morello, M. Anni, M-L de Giorgi, A. Klini</b>                                                                                              |
| 5  | Surface Acoustic Waves Gas Sensor for O <sub>3</sub> and CO <sub>2</sub> Applications<br><b>K. Liperos, D. Katerinopoulou, C.P. Tschlis, E. Gagaoudakis, V. Binas</b>                                                                                                                                                              |
| 6  | Structure-activity relationships in K-enriched lanthanum ferrite perovskite CO <sub>2</sub> hydrogenation catalysts<br><b>L. Zouridi, E. Mandela, K. Katsineli, E. Mantsiou, M. Konsolakis, G. Marnelos, V. Binas</b>                                                                                                              |
| 7  | Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> electrode design: evaluation of synthesis conditions and coating strategies in aqueous lithium-ion batteries<br><b>M. Apostolopoulou, T. Tsoukas, E. Pigounakis, N. Kavousanos, A. G. Temam, Adil Alshoaibi, A. C. Nwanya, F. I. Ezema, P. M. Ejikeme, D. Vernardou</b>            |
| 8  | Tailoring Noble and Transition Metal Species on Graphitic Carbon Nitride for Enhanced Solar Hydrogen Production<br><b>M. Zografaki, E. Skliri, V. Binas</b>                                                                                                                                                                        |
| 9  | TiO <sub>2</sub> -Based Composite Photocatalysts with Metal Sulfides for Improved Hydrogen Evolution Reaction Under Solar Irradiation<br><b>M. Charalampakis, E. Skliri, V. Binas</b>                                                                                                                                              |
| 10 | Crystalline transitions and point defects in (N, Mg)-doped copper oxide thin films deposited by radio-frequency magnetron sputtering<br><b>T. Ratz, E. Fournau, N. Sliti, C. Malherbe, A. Baret, B. Vertruyen, A. V. Silhanek, N. D. Nguyen</b>                                                                                    |
| 11 | Self-Powered Transparent Photodetector for Broadband Vision and Wide-Field Subretinal Function<br><b>P. Bhatnagar</b>                                                                                                                                                                                                              |
| 12 | Deposition of Dense, Smooth, and Amorphous Ta <sub>2</sub> O <sub>5</sub> , Al <sub>2</sub> O <sub>3</sub> , and TiO <sub>2</sub> Thin Films via Gas Flow Sputtering<br><b>R. Hibatullah, B. Seibertz, B. Szyszka</b>                                                                                                              |
| 13 | Metallic nanowire based transparent electrodes: Fruits of collaboration between chemists, physicists and engineers in two French laboratories<br><b>S. Maurya, A. Khan, A. Krizan, L. Labeyrie, M. Del Mar Rodriguez Robles, B. Zheng, S. Schumacher, C. Jiménez, D. Muñoz-Rojas, A. Rougier, M. Tréguer-Delapierre, D. Bellet</b> |
| 14 | p-Cu(OH) <sub>2</sub> /n-SrTiO <sub>3</sub> Heterojunction for Efficient Photocatalytic Hydrogen Production<br><b>E. Skliri, A.P. Souri, I. Vamvasakis, E.K. Andreou, G.S. Armatas, V. Binas</b>                                                                                                                                   |
| 15 | Heterostructures for advancing properties of p-type TCOs: growth and characterisation of V <sub>2</sub> O <sub>3</sub> /Cu <sub>2</sub> O bilayer<br><b>T. Bolger, P. Callaghan, K. Fleischer, C. Smith, I.V. Shvets, B. Walls</b>                                                                                                 |
| 16 | Membrane Electrode Assembly Inks Utilizing Antimony-Doped Tin Oxide Support Particles for Water Electrolysis<br><b>T. Benkó, S. Keszei, J. S. Pap</b>                                                                                                                                                                              |

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| 17 | Investigation of various designs of prototype silicon dioxide – based memristors for applications in advanced communications<br><b><u>W. R. Veldhoen</u>, V. Ranade, S. Quigley, D. McCloskey, C. Murray, I. Shvets</b>                                 |
| 18 | Tuning Wettability and Electrochemical Properties of Graphene Thin Films via PECVD Process Parameter Control<br><b><u>N. Kavousanos</u>, M. Apostolopoulou, E. Spanakis, K. Katsara, G. Kenanakis, I. Chronopoulos, S. N. Yannopoulos, D. Vernardou</b> |