

**Materials Challenges in Devices for Fuel Solar Production and Employment
(19 - 23 May 2014)**

List of Posters:

- P1** Alvi N. H., ISOM, Universidad Politécnica de Madrid, Spain
InGaN Nanowalls for Enhanced Photoelectrochemical Water Splitting and Hydrogen Generation
- P2** Banki M. Rao, Environmental Nanotechnology Laboratory, Indian Institute of Technology, India
Photo-Electro-Chemical Hydrogen Generation through Solvothermally Crystallized TiO₂ Nanotube Arrays
- P3** Fawzy A. Mahmoud, Solid State Physics Department, National research Center, Egypt
Copper Zinc Tin Sulfide Nanoparticles by Solvothermal Technique for Improved Solar Photovoltaic Utilization
- P4** Imam N.G. , Experimental Physics Dept., Nuclear Research Centre, Atomic Energy Authority, Egypt
On the novel structural, Magnetic and Photoluminescence Properties of Ni- Zn- Ga- Ferroic Material System
- P5** Imam N.G. , Experimental Physics Dept., Nuclear Research Center, Atomic Energy Authority, Egypt
Optical Properties of Diluted Magnetic Semiconductor Cu: ZnS Quantum Dots
- P6** Imam N.G. , Experimental Physics Dept., Nuclear Research Center, Atomic Energy Authority, Egypt
Photoluminescence, Magnetic and Electrical Properties of Co-Ferrite Nanotubes Synthesized Via Sol-gel Auto-combustion Method
- P7** Jameel D., Nottingham Nanotechnology and Nanoscience Center, University of Nottingham, U.K. and Department of Physics, Faculty of Science, University of Zakho, Iraq
Defects Study in Polyaniline (PANI) Grown on GaAs (100) and (311)B n-Type Substrates Using Current-Voltage, Conductance and Deep Level Transient Spectroscopy (DLTS)
- P8** Kwawu Caroline R., Department of Chemistry, Kwame Nkrumah University of Science and Technology, Ghana.
CO₂ Activation on Iron Surfaces: A density Functional Theory Study
- P9** Koodlur S. Lokesh, Dept of Chemistry, Vijayanagara Sri Krishnadevaraya University, India
RuO₂ Nanosheet to Improve the Activity and Durability of Pt/C Catalyst in PEMFC Fuel Cell
- P10** Naseri Naimeh, Department of Physics, Sharif University of Technology, Iran
Metal Oxide Nanostructures for Solar Assisted Hydrogen Production from Water

P11 Pitari Fabio, Università degli Studi dell' Aquila, Italy
From Natural to Artificial Photosynthesis: a Computational Approach

P12 Sarkar Utpal, Department of Physics, Assam University, India
A First Principle Study of Pristine and BN Doped Graphyne Family

P13 Scherlis Perel Damián, Departamento de Química Inorgánica, Analítica y Química Física, Universidad de Buenos Aires, Argentina
Electron Dynamics in Complex Environments with Real-time Time Dependent Density Functional Theory in a QM-MM Framework

P14 Sharma V., Electronic Structure Theory Group, Physical and Material Chemistry Division, CSIR-National Chemical Laboratory, India.
Experimental and First Principle DFT Study of Mn Doped ZnO Thin Films for Efficient Photoelectrochemical Splitting of Water

P15 Shi Haifeng, School of Science, Jiangnan University, P. R. China
NaNbO₃ Nanostructured Photocatalysts for Solar Fuels Production

P16 Soni Himadri R., Department of Physics, Maharaja Krishnakumarsinhji Bhavnagar University, India, and Condensed Matter and Statistical Physics, Abdus Salam International Centre for Theoretical Physics, Italy
Strain Induced Vibrational Properties of Monolayer Boron Pnictides

P17 Uzunova Ellie L., Institute of General and Inorganic Chemistry, Bulgarian Ac. of Sc., Bulgaria
Carbon Dioxide Activation and Reduction to Formic Acid on Cu₂O Nanolayers and Clusters: a Density Functional Study

P18 Francesco Valle, Engineering and Architecture department, University of Trieste, Italy
PEM Fuel Cells Degradation Study of the Catalyst Layer through SAXS Nano-Morphology Mapping