

## Journal Publications\_ Prof. Ashok K. Ganguli (till March 2017)

1. Parul Jain, J. Saha, L. C. Gupta, Satyabrata Patnaik, A. K. Ganguli, Ratnamala Chatterjee: *Dramatic variation of the multiferroic properties in Sr doped Ca 1-x Sr x Mn 7 O 12*. AIP Advances 05/2017; 7(5):055832., DOI:10.1063/1.4978401
2. Sirko Kamusella, Hans-Henning Klaus, Gohil S. Thakur, Zeba Haque, Laxmi C. Gupta, Ashok K. Ganguli, Inga Kraft, Ulrich Burkhardt, Helge Rosner, Hubertus Luetkens, Jeffrey W. Lynn, Yang Zhao: *Magnetism and site exchange in CuFeAs and CuFeSb: A microscopic and theoretical investigation*. 03/2017; 95(9)., DOI:10.1103/PhysRevB.95.094415
3. Kasinath Ojha, Tushar Debnath, Partha Maity, Mahima Makkar, Siamak Nejati, Kandalam V. Ramanujachary, Pramit Kumar Chowdhury, Hirendra Nath Ghosh, Ashok Kumar Ganguli: *Exciton Separation in CdS Supraparticles upon Conjugation with Graphene Sheet*. The Journal of Physical Chemistry C 03/2017;, DOI:10.1021/acs.jpcc.7b01150
4. Arabinda Baruah, Amandeep Jindal, Chhayakanta Acharya, Bhanu Prakash, Suddhasatwa Basu, Ashok Kumar Ganguli: *Microfluidic reactors for the morphology controlled synthesis and photocatalytic study of ZnO nanostructures*. Journal of Micromechanics and Microengineering 03/2017; 27(3):035013., DOI:10.1088/1361-6439/aa5bc4
5. Zeba Haque, Gohil Singh Thakur, Rangasamy Parthasarathy, Birgit Gerke, Theresa Block, Lukas Heletta, Rainer Pöttgen, Amish G Joshi, Ganesan Kalai Selvan, Sonachalam Arumugam, Laxmi Chand Gupta, Ashok Kumar Ganguli: *Unusual Mixed Valence of Eu in Two Materials—EuSr2Bi2S4F4 and Eu2SrBi2S4F4: Mössbauer and X-ray Photoemission Spectroscopy Investigations*. Inorganic Chemistry 02/2017;
6. Zeba Haque, Gohil Singh Thakur, Rangasamy Parthasarathy, Birgit Gerke, Theresa Block, Lukas Heletta, Rainer Pöttgen, Amish G. Joshi, Ganesan Kalai Selvan, Sonachalam Arumugam, Laxmi Chand Gupta, Ashok Kumar Ganguli: *Unusual Mixed Valence of Eu in Two Materials—EuSr 2 Bi 2 S 4 F 4 and Eu 2 SrBi 2 S 4 F 4 : Mössbauer and X-ray Photoemission Spectroscopy Investigations*. Inorganic Chemistry 02/2017;, DOI:10.1021/acs.inorgchem.6b01926
7. Kasinath Ojha, Soumen Saha, Shivali Banerjee, Ashok K Ganguli: *Efficient Electrocatalytic Hydrogen Evolution from MoS2 -Functionalized Mo2N Nanostructures*. ACS Applied Materials & Interfaces 02/2017;, DOI:10.1021/acsami.6b10717
8. Soumen Saha, Ashok K. Ganguli: *FeCoNi Alloy as Noble Metal-Free Electrocatalyst for Oxygen Evolution Reaction (OER)*. ChemistrySelect 02/2017; 2(4):1630-1636., DOI:10.1002/slct.201601243
9. Kasinath Ojha, Bharat Kumar, Ashok K Ganguli: *Biomass derived graphene-like activated and non-activated porous carbon for advanced supercapacitors*. Journal of Chemical Sciences 02/2017;, DOI:10.1007/s12039-017-1248-8
10. Sandeep Kumar, Kasinath Ojha, Ashok K Ganguli: *Interfacial Charge Transfer in Photoelectrochemical Processes*. Advanced Materials Interfaces 02/2017;, DOI:10.1002/admi.201600981
11. Sandeep Kumar, R. Parthasarathy, Aadesh P. Singh, Björn Wickman, Meganathan Thirumal, Ashok K. Ganguli: *Dominant {100} facet selectivity for enhanced photocatalytic activity of NaNbO*

3 in  $\text{NaNbO}_3/\text{CdS}$  core/shell heterostructures. *Catalysis Science & Technology* 01/2017;; DOI:10.1039/C6CY02098D

12. Kasinath Ojha, Manu Sharma, Hristo Kolev, Ashok K Ganguli: *Reduced graphene oxide and MoP composite as highly efficient and durable electrocatalyst for hydrogen evolution in both acidic and alkaline media*. *Catalysis Science & Technology* 01/2017;; DOI:10.1039/C6CY02406H
13. Leena Aggarwal, Sirshendu Gayen, Shekhar Das, Gohil S. Thakur, Ashok K. Ganguli, Goutam Sheet: *Enhanced zero-bias conductance peak and splitting at mesoscopic interfaces between an s-wave superconductor and a 3D Dirac semimetal*. *Applied Physics Letters* 12/2016; 109(25):252602., DOI:10.1063/1.4972966
14. Manu Sharma, Sonalika Vaidya, Ashok K. Ganguli: *Enhanced photocatalytic activity  $g\text{-C}_3\text{N}_4\text{-TiO}_2$  nanocomposites for degradation of Rhodamine B dye*. DOI:10.1016/j.jphotochem.2016.12.002
15. Sandeep Kumar, Aadesh P Singh, Nitin Yadav, Meganathan Thirumal, B. R. Mehta, Ashok K. Ganguli: *Fabrication of  $\text{TiO}_2/\text{CdS}/\text{Ag}_2\text{S}$  Nano-Heterostructured Photoanode for Enhancing Photoelectrochemical and Photocatalytic Activity under Visible Light*. *ChemistrySelect* 09/2016; 1(15)., DOI:10.1002/slct.201601007
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18. Vinod Kumar, Jack R. Brent, Munish Shorie, Harmanjit Kaur, Gaganpreet Chadha, Andrew G. Thomas, Edward A Lewis, Aidan P. Rooney, Lan Nguyen, Xiang Li Zhong, M. Grace Burke, Sarah J. Haigh, Alex S. Walton, Paul David McNaughten, Aleksander A. Tedstone, Nicky Savjani, Christopher A. Muryn, Paul O'Brien, Ashok Kumar Ganguli, David J. Lewis, Priyanka Sabherwal: *A Nanostructured Aptamer-Functionalised Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker*. *ACS Applied Materials & Interfaces* 08/2016; 8(35)., DOI:10.1021/acsami.6b06488
19. G Kalai Selvan, Gohil S Thakur, K Manikandan, A Banerjee, Zeba Haque, L C Gupta, Ashok K Ganguli, S Arumugam: *Superconductivity in  $\text{La}_{1-x}\text{Sm}_x\text{O}_{0.5}\text{F}_{0.5}\text{BiS}_2$  ( $x = 0.2, 0.8$ ) under hydrostatic pressure*. *Journal of Physics D Applied Physics* 07/2016; 49(27):275002., DOI:10.1088/0022-3727/49/27/275002
20. Anshu Sirohi, Chandan K. Singh, Gohil S. Thakur, Preetha Saha, Sirshendu Gayen, Abhishek Gaurav, Shubhra Jyotsna, Zeba Haque, L. C. Gupta, Mukul Kabir, Ashok K. Ganguli, Goutam Sheet: *High spin polarization and the origin of unique ferromagnetic ground state in  $\text{CuFeSb}$* . *Applied Physics Letters* 06/2016; *Appl. Phys. Lett.* 108, 242411 (2016)(24):6., DOI:10.1063/1.4954026
21. Sandeep Kumar, Aadesh P Singh, Chandan Bera, Meganathan Thirumal, B R Mehta, Ashok K Ganguli: *Visible-Light-Driven Photoelectrochemical and Photocatalytic Performance of  $\text{NaNbO}_3/\text{Ag}_2\text{S}$  Core-Shell Heterostructures*. *ChemSusChem* 06/2016;; DOI:10.1002/cssc.201600397

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24. SOUMEN SAHA, SONALIKA VAIDYA, KANDALAM V RAMANUJACHARY, SAMUEL E LOFLAND, ASHOK K GANGULI: *Ternary alloy nanocatalysts for hydrogen evolution reaction*. Bulletin of Materials Science 04/2016; 39(2)., DOI:10.1007/s12034-016-1182-2
25. Y. Zhao, J. W. Lynn, Gohil S. Thakur, Zeba Haque, L. C. Gupta, A K Ganguli: *Magnetic structures of intermetallic rare earth compounds RCuAs<sub>2</sub> (R = Pr, Nd, Tb, Dy, Ho, and Yb)*.
26. Kasinath Ojha, Soumen Saha, Hristo Kolev, Bharat Kumar, Ashok K Ganguli: *Composites of graphene-Mo<sub>2</sub>C rods: Highly active and stable electrocatalyst for hydrogen evolution reaction*. Electrochimica Acta 03/2016; 193., DOI:10.1016/j.electacta.2016.02.081
27. Kasinath Ojha, Soumen Saha, Bharat Kumar, Kiran Shankar Hazra, Ashok K Ganguli: *Controlling the Morphology and Efficiency of Nanostructured Molybdenum Nitride Electrocatalysts for the Hydrogen Evolution Reaction*. ChemCatChem 02/2016;, DOI:10.1002/cctc.201501341
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30. Soumen Saha, Kandalam V Ramanujachary, Samuel E Lofland, Ashok K Ganguli: *Cu-Co-Ni alloys: An efficient and durable electrocatalyst in acidic media*. Materials Research Express 01/2016; 3(1):016501., DOI:10.1088/2053-1591/3/1/016501
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