Prof. Dr. Shreyasi Pal

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LIST OF PUBLICATIONS

1. Novel Kite-Like ZnO Nano-Tetrapods for Sustainable Environmental Applications, **Shreyasi Pal**, S. Maiti and K. K. Chattopadhyay, **AIP Conference Proceedings,** 1832, 050039; doi: 10.1063/1, (2017).
2. Synthesis of rGO@ZnS nanocomposites for visible light assisted high photocatalytic performance, S. DUTTA, **S. PAL**, S. MONDAL and S. DE, **Invertis Journal of Renewable Energy**,Vol. 7, No. 2, pp 1-6, (2017).
3. ZnO-(Cu/Ag)TCNQ heterostructure network over flexible platform for enhanced cold cathode application, **Shreyasi Pal**, S. Maiti, U. N. Maiti, and Kalyan Kumar Chattopadhyay, **Nanotechnology**, 27, 265601, (2016).
4. Morphology induced photo-degradation study of low temperature, chemically derived ZnO/SnO_2heterostructure. **Shreyasi Pal**, S. Maiti and K. K. Chattopadhyay. **AIP Conference Proceedings**, 1728, 020403, (2016).
5. Tungsten oxide nanostructures for energy storage and field emission applications. **Shreyasi Pal**, and Kalyan Kumar Chattopadhyay, **IJRET: International Journal of Research in Engineering and Technology**, 5 (1), 97-101, (2016).
6. Structural origination of charge transfer complex nanostructures: Excellent candidate for field emission, **Shreyasi Pal**and K. K. Chattopadhyay. **AIP Conference Proceedings**, 1731, 050102, (2016).
7. Large area single crystalline MnO_2 nanowire arrays on conductive substrates for supercapacitor electrodes, **Shreyasi Pal**, and Kalyan Kumar Chattopadhyay.Proceedings of UGC Sponsored National Level Seminar on Recent Advances in Materials Science, **ISBN: 978-81-928110-9-3**, pp. 70-76, (2016).
8. Field emission from CoO nanorods synthesized by facile hydrothermal method, S. Thakur, **Shreyasi Pal**, and Kalyan Kumar Chattopadhyay.Proceedings of UGC Sponsored National Level Seminar on Recent Advances in Materials Science, **ISBN: 978-81-928110-9-3**, pp. 91-93, (2016).
9. Metal organic charge transfer complex over Cu wire: Route towards a robust 360^o axial cold cathode display, S. Maiti, **Shreyasi Pal**, and Kalyan Kumar Chattopadhyay. **Proceedings of UGC Sponsored National Level Seminar on Recent Advances in Materials Science**, **ISBN: 978-81-928110-9-3**, pp. 38-43, (2016).
10. Spontaneous hyper-branching in ZnO nanostructures: morphology dependent electron emission and light detection. **Shreyasi Pal**, S. Maiti, U. N. Maiti and K. K. Chattopadhyay, **RSC Adv.**, 5, 81176–81187, (2015).
11. Recent advances in low temperature, solution processed morphology tailored ZnO nano-architecture for electron emission and photocatalysis applications. S. Maiti,**Shreyasi**

Pal,**[illegible]** and K. K. Chattopadhyay,(**[illegible]**Equal contribution). **CrystEngComm**, 17(48), 9264-9295, (2015).**(Review Article)**

12. Low temperature solution processed ZnO/CuOheterojunction photocatalyst for visible light induced photo-degradation of organic pollutant. **Shreyasi Pal**, S. Maiti, U. N. Maiti and K. K. Chattopadhyay, **CrystEngComm**, 17, 1464–1476, (2015).
13. Ambient Conditioned, Solution Processed CuONanoflakes Over Carbon Fabric for Supercapacitor Application: Performance Enhancement via Nanoparticle Attachment.**S. Pal**, S. Maiti, S. Dutta, and K. K. Chattopadhyay, **Journal of Atomic, Molecular, Condensate and Nano Physics**, 6 (2), 153-159, (2015).
14. WO_3 nanowire over flexible carbon cloth: Candidate for supercapacitor and electron field emitter. **Shreyasi Pal**, S. Dutta, S. Maiti and K. K. Chattopadhyay. Copyright Reserved @HRC – IIChE, HIT Haldia, **ISBN: 978-81-927756-2-3**, 353-357, (2015).
15. Photo-degradation of rhodamine B by low temperature, chemically processed ZnO/CuO hybrid photocatalyst under visible light,**Shreyasi Pal,**S. Maiti and K. K. Chattopadhyay. Published by Bloomsbury Publishing India Pvt. Ltd., **ISBN: 978-93-85436-74-1**, 1098 7654321, (2015).
16. Scalable approach for the realization of garland shaped 3D assembly of CuTCNQ nanorods: an efficient electron emitter. **Shreyasi Pal**, S. Maiti, U. N. Maiti and K. K. Chattopadhyay, **J. Mater. Chem. C**, **2**, 4005-4011, (2014).
17. Organic nanowire hierarchy over fabric platform for flexible cold cathode. S. Maiti, U. N. Maiti, **Shreyasi Pal** and K. K. Chattopadhyay, **Nanotechnology**, **24**, 465601, (2013).
18. Controlling the sharpness of ZnO tetrapods by restricted zinc oxidation in the open air: a low turn-on field emitter stabilized by graphene. S. Maiti, U. N. Maiti, B. C. Behera, **Shreyasi Pal** and K. K. Chattopadhyay, **J. Mater. Chem. C**, 1, 4940-4947, (2013).
19. Fabrication of Molybdenum Trioxide Nanobelts as High Performance Supercapacitors, **Shreyasi Pal** and Kalyan Kumar Chattopadhyay, **Materials Today: Proceedings** (Accepted).
20. Morphology Tailored Cobalt Oxide Nanoarchitectures Over Flexible Platform For Hazardous Organic Dye Degradation Under Visible Light, Subhasish Thakur, SoumenMaiti, **ShreyasiPal** and Kalyan Kumar Chattopadhyay,**Materials Today: Proceedings**(Accepted).
21. Fabrication of Silver-Tetracyanoquinodimethane Nanorods Arrays for Field Emission Application, **Shreyasi Pal** and Kalyan Kumar Chattopadhyay, Invertis Journal of Renewable Energy (Accepted).

JOURNAL COVER

Tailored Organic/ Inorganic Multistage Field Emitters; **Shreyasi Pal**, S. Maiti, U. N. Maiti and K. K. Chattopadhyay, **Nanotechnology**, Vol. 27,Issue 26 (2016).

AWARDS AND ACHIEVEMENTS

[1] **"BEST ORAL PRESENTATION AWARD"**in the National Conference on **"Emerging Trends in Condensed Matter Physics & Materials Science"** held at the University of Kalyani, Kalyani-741235, West Bengal, (2016).

[2] **"BEST ORAL PRESENTATION & BEST PAPER AWARD"**with **Cash Award** in the International conference on **"Recent Advances in Nano-Science and Technology" (RAINSAT-2015),** held at Sathyabama University, Chennai, in Association with Central Leather Research Institute, Chennai, India, (2015).

[3] **"BEST POSTER PRESENTATION AWARD"**with **Cash Award** in the **"23rd WEST BENGAL STATE SCIENCE & TECHNOLOGY CONGRESS"**, organized by Presidency University, Kolkata; Department of Science and Technology, Govt. of West Bengal; West Bengal Council of Science & Technology, Kolkata, Govt. of West Bengal, (2015).

[4] **"BEST POSTER PRESENTATIONAWARD"** in the UGC-sponsored National Conference on **"Recent Trends in Functional Materials in Relation To Nanomaterials and Nanotechnology" (RTFMNN),** held at St. Paul's Cathedral Mission College, Kolkata, (2015).

[5] **"BEST POSTER PRESENTATION AWARD"**in the International Conference on **"NANOSCIENCE, NANOTECHNOLOGY & ADVANCED MATERIALS"** organized by Department of Chemistry, GITAM University, Visakhapatnam and **Cash Award** sponsored by **Materials Research Society (MRS) of Singapore, Singapore,** (2015).

[6] **"BEST POSTER PRESENTATION AWARD"** with **Cash Award**in the Workshop on **Indian Innovations in Materials Research: New Materials and Processes (IIMR-15),** organized jointly by CSIR-CGCRI and IAPQR, Kolkata, (2015).

[7] Peer reviewed **Paper Selected for Poster presentation** in **"Young Scientists' Colloquium 2015" (YSC-15)**, organized by **Materials Research Society of India (MRSI), Kolkata Chapter**, held at CSIR-Central Glass & Ceramic Research Institute, Kolkata.

[8] Peer reviewed **Paper Selected for Oral presentation** in **"Colloquium for Young Physicists" (YPC 2015), organized by The Indian Physical Society (IPS), Kolkata,**held at S.N. Bose Centre, Kolkata.

[9] Peer reviewed paper **Selected for Oral presentation** in **"Young Scientists' Colloquium 2014" (YSC-14)**, organized by **Materials Research Society of India (MRSI), Kolkata Chapter**, held at Saha Institute of Nuclear Physics, Kolkata.

[10] **"AWARDED CSIR FELLOWSHIP"** from HRDG, Government of India through CSIR UGC National Eligibility Test, **All India Rank: 44**, (2012)**.**

[11] Qualified **Graduate Aptitude Test in Engineering (GATE) in** 2012.

[12] Certificate of Accreditation by the **Baruipur Block Trinomul Chatro Parisod,** South 24 Parganas, West Bengal, for Higher Secondary result, (2007).