COMPLETE LIST OF PUBLICATIONS

PUBLICATIONS IN REFERRED JOURNALS:(∗Corresponding author)

2023

1. Chizoba I Ezugwu*, **Srabanti Ghosh***, Susmita Bera, Marisol Faraldos, Marta E. G. Mosquera and Roberto Rosal, "*Bimetallic metal-organic frameworks for efficient visible-light-driven photocatalytic CO_2 reduction and H_2 generation*" **Separation and Purification Technology**, 308, (2023) 122868. **(I.F. = 9.136)**

2. Soumita Samajdar, Susmita Bera, Pradip Sekhar Das, Harry Finch, Vinod R. Dhanak, Saswata Chakraborty, T. Maiyalagan, K. Annapurna, **Srabanti Ghosh*** "*Exploration of 1D-2D $LaFeO_3$/RGO S-scheme Heterojunction for Photocatalytic Water*" **International Journal of Hydrogen Energy**, (2023) doi.org/10.1016/j.ijhydene.2023.01.271 **(I.F. = 7.1)**

3. **Srabanti Ghosh*,** Susmita Bera, Samim Sardar, Sourabh Pal, Franco Camargo, Cosimo D'Andrea, Giulio Cerullo, "*Role of Efficient Charge Transfer at the Interface between Mixed Phase Copper-Cuprous Oxide and Conducting Polymer Nanostructures for Photocatalytic Water Splitting*" ACS Applied Materials & Interfaces, (2023) (Accepted)

2022

4. Susmita Bera, **Srabanti Ghosh*,** T. Maiyalagan, and Rajendra N. Basu, "*Band Edge Engineering of $BiOX/CuFe_2O_4$ Heterostructures for Efficient Water Splitting*" **ACS Applied Energy Materials**, 5 (2022)3821–3833. **(I.F. = 6.959)**

5. **Srabanti Ghosh***, Susmita Bera, Aditya Singh, Suddhasatwa Basu, Rajendra N. Basu, "*Hierarchical $Bi_2WO_6/BiFeWO_6$ n-n Heterojunction as an Efficient Photocatalyst for Water Splitting under Visible Light*" **Journal of Alloys and Compounds,** 919 (2022) 165700. **(I.F. = 6.371)**

6. Sudip Bhattacharjee, Susmita Bera, Riyanka Das, Debabrata Chakraborty, Akash Basu, Priyabrata Banerjee*, **Srabanti Ghosh***, and Asim Bhaumik*"*A Ni(II) Metal–Organic Framework with Mixed Carboxylate and Bipyridine Ligands for Ultrafast and Selective Sensing of Explosives and Photoelectrochemical Hydrogen Evolution*"**ACS Applied Materials & Interfaces**, 14 (2022) 20907–20918. **(I.F. = 10.383)**

7. Susmita Bera, Soumita Samajdar, Sourabh Pal, Pradip Sekhar Das, Leanne A. H. Jones, Harry Finch, Vinod R. Dhanak, **Srabanti Ghosh***, "*Effect of Metal Doping in Bi_2WO_6 Micro-flowers for Enhanced Photoelectrochemical Water Splitting*" **Ceramics International,** 48 (2022) **35814-35824**. **(I.F. = 5.532)**

8. **Srabanti Ghosh***, Susmita Bera, Soumita Samajdar, Sourabh Pal, "*Phosphorus based Hybrid Materials for green Fuel Generation*" **WIREs Energy and Environment,** 11 (2022) e458**(I.F. = 6.016)**

2021

9. **Srabanti Ghosh***, Georgiana Amariei, Marta E. G. Mosquera* and Roberto Rosal, "*Conjugated polymer nanostructures displaying high photoactivated antimicrobial and antibiofilm functionalities*" **Journal of Materials Chemistry B**, 9(2021) 4390 – 4399. **(I.F. = 7.571)**

10. Susmita Bera, Ankita Kumari, **Srabanti Ghosh*** and Rajendra N. Basu*, "*Assemble of Bi-Doped TiO_2 onto 2D MoS_2: An Efficient p-n Heterojunction for Photocatalytic H_2 generation under Visible Light*" **Nanotechnology,** 32 (2021) 195402 (12pp). **(I.F. = 3.551)**

11. Soumyadipta Rakshit, **Srabanti Ghosh**, Rimi Roy and Subhash Chandra Bhattacharya, "*Non-Enzymatic Electrochemical Glucose Sensing by Cu_2O Octahedrons: Elucidating Protein Adsorption Signature*" **New Journal of Chemistry,** 45 (2021) 628–637. **(I.F. = 3.925)**

12. Nasrin Sedaghati, Aziz Habibi-Yangjeh*, Soheila Asadzadeh-Khaneghah, **Srabanti Ghosh**," *Integration of oxygen vacancy rich-TiO_2 with BiOI and $Ag_6Si_2O_7$: Ternary p-n-n photocatalysts with greatly increased performances for degradation of organic contaminants*" **Colloids and Surfaces A: Physicochemical and Engineering Aspects,** 613 (2021) 126101. **(I.F. = 5.518)**

13. Nasrin Sedaghati, Aziz Habibi-Yangjeh, Soheila Asadzadeh-Khaneghah, **Srabanti Ghosh**, "*Photocatalytic performance of oxygen vacancy rich-TiO_2 combined with $Bi_4O_5Br_2$ nanoparticles on degradation of several water pollutants*" **Advanced Powder Technology,** 32(2021) 304-316. **(I.F. = 4.217)**

2020

14. **Srabanti Ghosh***, Georgiana Amariei, Marta E. G. Mosquera*and Roberto Rosal, "*Polymeric Ruthenium Precursor as a Photoactivated Antimicrobial Agent*" **Journal of Hazardous Materials**, 402 (2021) 123788. **(I.F. = 14.224)**

15. **Srabanti Ghosh***, Shweta Rani Keshri, Susmita Bera and Rajendra N. Basu*, "*Enhanced solar hydrogen generation using Cu–Cu_2O integrated polypyrrole nanofibers as heterostructured catalysts*" **International Journal of Hydrogen Energy**, 45 (2020)6159-6173. **(I.F. = 7.139)**

16. **Srabanti Ghosh***, Suparna Das, Marta E. G. Mosquera, "*Conducting Polymer-based Nanohybrids for Fuel Cells Application*" **Polymer,** (MDPI) 12 (2020)2993. **(I.F. = 4.967)**

17. Susmita Bera, **Srabanti Ghosh*** and Rajendra N. Basu*, "*Silver as solid-state electron mediator in MoS_2/Ag–$AgVO_3$ Z-Scheme heterostructures for photocatalytic H_2 generation*" **Journal of Alloys and Compounds**, 830 (2020) 154527. **(I.F. = 6.371)**

18. Elham Vesali-Kermani, Aziz Habibi-Yangjeh*, Hadi Diarmand-Khalilabad, and **Srabanti Ghosh**, "*Nitrogen photofixation ability of g-C_3N_4 nanosheets/Bi_2MoO_6 heterojunction photocatalyst under visible-light illumination*" **Journal of Colloid and Interface Science**, 563 (2020) 81-90. **(I.F. = 9.965)**

19. Solmaz Feizpoor, Aziz Habibi-Yangjeh*, Davod Seifzadeh and**Srabanti Ghosh**, "*Combining carbon dots and $Ag_6Si_2O_7$ nanoparticles with TiO_2: Visible-light driven photocatalysts with efficient performance for removal of pollutants*" **Separation and Purification Technology**, 248 (2020) 116928. **(I.F. = 9.136)**

20. Asma Shoja, Aziz Habibi-Yangjeh*, Mitra Mousavi, **Srabanti Ghosh** andThandavarayan Maiyalagan, "*Carbon dots and $Bi_4O_5Br_2$ adhered on TiO_2 nanoparticles: Impressively boosted photocatalytic efficiency for removal of pollutants under visible light*" **Separation and Purification Technology**, 250 (2020) 117179. **(I.F. = 9.136)**

21. Elham Vesali-Kermani, Aziz Habibi-Yangjeh* and **Srabanti Ghosh**, "*Visible-light-induced nitrogen photofixation ability of g-C_3N_4 nanosheets decorated with MgO nanoparticles*" **Journal of Industrial and Engineering Chemistry,** 84 (2020) 185-195. **(I.F. = 6.76)**

22. Aziz Habibi-Yangjeh*, Mahsa Pirhashemi, and **Srabanti Ghosh**, "*ZnO/$ZnBi_2O_4$ nanocomposites with p-n heterojunction as durable visible-light-activated photocatalysts for efficient removal of organic pollutants*" **Journal of Alloys and Compounds**,826 (2020) 154229. **(I.F. = 6.371)**

23. Aziz Habibi-Yangjeh*, Soheila Asadzadeh-Khaneghah and**Srabanti Ghosh**, "*Anchoring $Bi_4O_5I_2$ and AgI nanoparticles over g-C_3N_4 nanosheets: Impressive visible-light-induced photocatalysts in elimination of hazardous contaminates by a cascade mechanism*" **Advanced Powder Technology**,31 (2020) 2618–2628. **(I.F. = 4.969)**

24. Dipanwita Majumdar and **Srabanti Ghosh**, "*Recent Advancements of Copper Oxide Based Nanomaterials for Supercapacitor Applications*" **Journal of Energy Storage** 34 (2020) 101995. **(I.F. =** 8.907**)**

25. Mina Sabri, Aziz Habibi-Yangjeh* and **Srabanti Ghosh**, "*Novel ZnO/$CuBi_2O_4$ heterostructures for persulfate-assisted photocatalytic degradation of dye contaminants under visible light*" **Journal of Photochemistry and Photobiology A: Chemistry**, 391 (2020) 112397. **(I.F. = 5.141)**

26. Soheila Asadzadeh-Khaneghah, Aziz Habibi-Yangjeh*, Mehdi Shahedi-Asl, Zohre Ahmadi and**Srabanti Ghosh**, "*Synthesis of novel ternary g-C_3N_4/SiC/C-Dots photocatalysts and their visible-light-induced activities in removal of various contaminants*" **Journal of Photochemistry and Photobiology A: Chemistry,** (2020) 112431. **(I.F. = 5.141)**

27. Somayeh Zarezadeh, Aziz Habibi-Yangjeh*, Mitra Mousavi and **Srabanti Ghosh**, "*Synthesis of novel pnpBiOBr/ZnO/BiOI heterostructures and their efficient photocatalytic performances in removals of dye pollutants under visible light*" **Journal of Photochemistry and Photobiology A: Chemistry**, 389 (2020) 112247. **(I.F. = 5.141)**

28. Nasrin Sedaghati, Aziz Habibi-Yangjeh, Mahsa Pirhashemi, Soheila Asadzadeh-Khaneghah and **Srabanti Ghosh**, "*Integration of BiOI and Ag_3PO_4 nanoparticles onto oxygen vacancy rich-TiO_2 for efficient visible-light photocatalytic decontaminations*" **Journal of Photochemistry and Photobiology A: Chemistry**, 400 (2020) 112659. **(I.F. = 5.141)**

29. Somayeh Zarezadeh, Aziz Habibi-Yangjeh*, Mitra Mousavi and **Srabanti Ghosh**, "*Novel ZnO/Ag_3PO_4/AgI photocatalysts: Preparation, characterization, and the excellent visible-light photocatalytic performances*" **Materials Science in Semiconductor Processing**, 119 (2020) 105229. **(I.F. = 4.644)**

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31. ElhamVesali-Kermania, AzizHabibi-Yangjeh and **Srabanti Ghosh**, "*Efficiently enhanced nitrogen fixation performance of g-C_3N_4 nanosheets by decorating $Ni_3V_2O_8$ nanoparticles under visible-light irradiation*" **Ceramics International**, 46 (2020) 24472–24482. **(I.F. = 5.530)**

32. Aziz Habibi-Yangjeh*, Soheila Asadzadeh-Khaneghah and **Srabanti Ghosh**, "*BiOBr and BiOCl decorated on TiO_2 QDs: Impressively increased photocatalytic performance for degradation of pollutants under visible light*" **Advanced Powder Technology**, 31 (2020) 3582–3596. **(I.F. = 4.969)**

33. Ferya Vosoughi, Aziz Habibi-Yangjeh*, Soheila Asadzadeh-Khaneghah, **Srabanti Ghosh** and T. Maiyalagan, "*Novel ternary g-C_3N_4 nanosheet/Ag_2MoO_4/AgI photocatalysts: Impressive photocatalysts for removal of various contaminants*" **Journal of Photochemistry and Photobiology, A: Chemistry,** 403 (2020) 112871. **(I.F. = 5.141)**

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34. Susmita Bera, **Srabanti Ghosh***, Sanjib Shyamal, Chinmoy Bhattacharya and Rajendra N. Basu,* "*Photocatalytic hydrogen generation using gold decorated $BiFeO_3$ heterostructures as an efficient catalyst under visible light irradiation"* **Solar Energy Materials and Solar Cells**, 194 (2019) 195-206.**(I.F. = 7.305)**

35. **Srabanti Ghosh***, Sandip Bysakh and Rajendra N. Basu,* "*Bimetallic $Pd_{96}Fe_4$Nanodendrites Embedded in Graphitic Carbon Nanosheets as Highly Efficient Anode Electrocatalysts"* **Nanoscale Advances**, 1 (2019) 3929-3940. (**Selected inthemed collection International Year of the Periodic Table: Single Atoms as Active Catalysts**) **(I.F. = 5.598)**

36. **Srabanti Ghosh***, Divya Rashmi, Susmita Bera and Rajendra N. Basu,* "*Functionalized conjugated polymer nanostructure with plasmonic Au nanoalloys for photocatalytic hydrogen generation under Vis-NIR light"* **International Journal of Hydrogen Energy**, 44 (2019) 13262-13272.**(I.F. = 7.13)**

37. Rajendra N. Basu, Jayanta Mukhopadhyay, **Srabanti Ghosh** and Abhijit Das Sharma, "*Solid-State Electrolytes and Electrode Materials for Fuel Cell Application"* **Transactions of the Indian Institute of Metals**, 72 (2019) 2073–2090. **(I.F. = 1.43)**

38. Aziz Habibi-Yangjeh, Solmaz Feizpoor, Davod Seifzadeh and **Srabanti Ghosh**, "*Improving visible-light-induced photocatalytic ability of TiO_2 through coupling with Bi_3O_4Cl and carbon dot nanoparticles*" **Separation and Purification Technology**, 328 (2019) 116404. **(I.F. = 9.136)**

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40. **Srabanti Ghosh*** and Rajendra N. Basu,* "*Multifunctional Electrocatalyts Design for Energy Conversion and Storage: Current status, perspectives and challenges*" **Nanoscale**, 10 (2018)11241–11280. **(I.F. = 8.307) (Top 5% most-read Q2 web collection)**

41. Xiaojiao Yuan, Dita Floresyona, Pierre-Henri Aubert, Thanh-Tuân Bui, Samy Remita, **Srabanti Ghosh**, François Brisset, Fabrice Goubard and Hynd Remita, "*Photocatalytic Degradation of Organic Pollutant with Polypyrrole Nanostructures under UV and Visible light*" **Applied Catalysis B: Environmental**, 242, (2018) 284–292. **(I.F. = 24.319)**

42. **Srabanti Ghosh***, Laurence Ramos and Hynd Remita,***** *"Swollen Liquid Crystals as Smart Nanoreactors: Implementation in Material Chemistry for Energy Applications"* **Nanoscale**, 10 (2018) 5793–5819. **(I.F. = 8.307)**

43. **Srabanti Ghosh***, Awadesh K. Mullick andRajendra N. Basu**,*** "*Enhanced photocatalytic activity and photoresponse of poly(3,4-ethylenedioxythiophene) nanofibers decorated with gold nanoparticle under visible light*" **Solar Energy**, 159 (2018) 548–560. **(I.F. = 7.188)**

44. Susmita Bera, **Srabanti Ghosh*** and Rajendra N. Basu**,*** *"Fabrication of Bi_2S_3/ZnO heterostructures: An excellent photocatalyst for visible-light-driven hydrogen generation and photoelectrochemical properties"* **New J. Chem.,** 42 (2018) 541-554**.(I.F. = 3.925)**

45. **Srabanti Ghosh***, Susmita Bera, Naomi Karmakar and Rajendra N. Basu, **"Enhanced electrocatalytic activity of branched Pd nanostructures decorated conducting polymer nanofibers for alkaline fuel cells"* **Materials Today: Proceedings**, 5 (2018) 9733–9742. **(I.F. = 1.09)**

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48. **Srabanti Ghosh***, Susmita Bera, S. Bysakh and R. N. Basu, * *"Conducting Polymer Nanofibers Supported Pt Alloys: Unprecedented Materials for Methanol Oxidation with Enhanced Electrocatalytic Performance and Stability"* **Sustainable Energy & Fuels**, 1 (2017) 1148–1161. **(I.F. = 6.813)**

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50. Sreya Roy Chowdhury, **Srabanti Ghosh**, Swapan KumarBhattachrya*, "Improved Catalysis of Green-Synthesized Pd-Ag Alloy-Nanoparticles for Anodic Oxidation of Methanol in Alkali"* **Electrochimica Acta**, 225 (2017) 310–321. **(I.F. = 7.336)**

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Nanoarchitectonics in Energy-Related Applications" **Bulletin of the Chemical Society of Japan**, 90 (2017) 1-21. **(I.F. = 4.488)**

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57. Palanisamy Kannan, Thandavarayan Maiyalagan, **Srabanti Ghosh**, Joanna Niedziolka-Jönsson and Martin Jönsson-Niedziolka, "*Hierarchical 3-Dimensional Nickel-Iron Nanosheet Arrays on Carbon Fiber Paper as a Novel Electrode for Non-Enzymatic Glucose Sensing"* **Nanoscale**, 8 (2016) 843−855. **(I.F. = 8.307)**

58. **Srabanti Ghosh**, YaoviHolade, Hynd Remita, Karine Servat, Patricia Beaunier, Agnès Hagège, Boniface Kokoh and Teko W. Napporn, "*Facile Synthesis of Surfactant-Free Graphene Supported Gold based Nanocomposites: Robust Catalysts for Glucose Oxidation"* **Electrochimica Acta**, 212 (2016) 864−875. **(I.F. = 7.336)**

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61. **Srabanti Ghosh***, Prabal Chakraborty, Adrita Chakrabarti, Manosij Ghosh, Amit Mandal, Partha Saha, Anita Mukherjee, Somobrata Acharya and Manju Ray, "*Biological activity of dendrimer-methylglyoxal conjugates for improved therapeutic efficacy against malignant cells"* **RSC Advances**, 6 (2016) 6631–6642. **(I.F. = 4.036)**

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63. **Srabanti Ghosh*** and Rajendra N. Basu, "*Electrochemistry of Nanostructured Materials: Implementation in Electrocatalysis for Energy Conversion Applications*" Special Issue on Materials Electrochemistry, Electrochemical Processes and Systems, **Journal of the Indian Institute of Science**, 96 (2016) 293–314. **(I.F. = 2.456)**

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66. Prasenjit Kar, Samim Sardar, **Srabanti Ghosh**, Bo Liu, Peter Lemmens, Omar F. Mohammed and Samir Kumar Pal "*Nano-Surface Engineering of Mn_2O_3 for Potential Light-harvesting Application"* **Journal of Materials Chemistry C**, 3 (2015) 8200– 8211. **(I.F. = 8.067)**

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72. **Srabanti Ghosh**, Hynd Remita, Laurence Ramos, Alexandre Dazzi, Ariane Deniset-Besseau, Patricia Beaunier, Fabrice Goubard, *Pierre-Henri Aubert* and Samy Remita, "*PEDOT Nanostructures Synthesized in Hexagonal Mesophases*" **New Journal of Chemistry**, 38 (2014) 1106–1115. **(Selected as hot article) (I.F. = 3.925)**

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74. **Srabanti Ghosh***, Prabal Chakraborty, Partha Saha, Somobrata Acharya and Manju Ray,* *"Polymer based Nanoformulation of Methylglyoxal as an AntimicrobialAgent: Efficacy against Resistant Bacteria*" **RSC Advances**,4 (2014) 23251–23261. **(I.F. = 4.036)**

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84. **Srabanti Ghosh**, Aparna Datta and Abhijit Saha, *"Single Step Synthesis of Highly Stable Good Quality Water-soluble Semiconductor/Dendrimer nanocomposites: Distribution and Phase control of CdS nanocrystal in dendrimer matrix"* **Colloids and Surfaces A: Physicochem. Eng. Aspects,** 355 (2009) 130–138. **(I.F. = 5.518)**

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86. **Srabanti Ghosh**, Amiya Priyam and Abhijit Saha, *"Surface Charge Tunability and Size Dependent Luminescence Anisotropy of Aqueous Synthesized ZnS/Dendrimer Nanocomposites"* **Journal of Nanoscience and Nanotechnology,** 9 (2009) 6726–6735. **(I.F. = 1.354)**

87. **Srabanti Ghosh**, Amiya Priyam, Subhas Chandra Bhattacharya and Abhijit Saha, *"Differential interaction of biofunctionalized CdTe nanoparticles with Cu^{2+}, dendrimer and Cu^{2+}-dendrimer complex"* **Journal of Fluorescence,** 19 (2009) 723–731. (**I.F. = 2.525)**

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88. **Srabanti Ghosh**, Amiya Priyam, Anindita Chatterjee and Abhijit Saha, *"Size Tunablity of CdTe Crystallites in Dendrimer Nanocomposites And Temperature Dependent Focusing of Size Distribution"* **Journal of Nanoscience and Nanotechnology,** 8 (2008) 5952–5957. **(I.F. = 1.354)**

Book Edited

1. **Srabanti Ghosh** (Editor), "*Visible-Light-Active Photocatalysis: Nanostructured Catalyst Design, Mechanisms, and Applications"* by **Wiley-VCH VerlagGmbh& Co. KGaA**, April, 2018, ISBN: 978-3-527-34293-8.

2. **Srabanti Ghosh** (Editor), "*Heterostructured photocatalysts for solar energy conversion*" published by **Elsevier Inc**., *20th October 2020*, ISBN**:** 9780128200728.

3.**Srabanti Ghosh** (Editor), "*Conjugated Polymer Nanostructures for Energy Conversion and Storage*" published by **Wiley-VCH Verlag Gmbh& Co. KGaA, Germany,** March 2021, 59553, ISBN: 978-3-572-34557-1.

4. **Srabanti Ghosh**, Aziz Habibi-Yangjeh, Sweta Sharma, Ashok Kumar Nadda (Editors), "*Nanomaterials for Water Treatment and Remediation*" published by CRC Press, Taylor and Francis, December 2021, ISBN: 9780367633073.

5. Valentina Sessini, **Srabanti Ghosh**, Marta E. G. Mosquera (Editors), "*Biopolymers: Synthesis, properties, and emerging applications*" to be published by **Elsevier Inc.**, 1st April, 2023.

6. **Srabanti Ghosh**, Qian Wang (Editors), "*Recent Developments in Functional Materials for Artificial Photosynthesis; In Energy and Environment Series*" to be published by **THE ROYAL SOCIETY OF CHEMISTRY**, 8th March, 2023.

BOOK Chapters

1. Chizoba I. Ezugwu, **Srabanti Ghosh**, Marta E.G. Mosquera, Roberto Rosal, *"Metal–Organic Frameworks and Their Derived Materials in Water Purification"* Chapter 15, Nanomaterials for Water Treatment and Remediation, Editors:Srabanti Ghosh, Aziz Habibi-Yangjeh, Sweta Sharma, Ashok Kumar Nadda,CRC Press, Taylor and Francis, December 2021, ISBN: 9780367633073.

2. **Srabanti Ghosh**, Susmita Bera, *"Advances in 2D nanomaterials and its heterostructures for photocatalytic energy conversion"* Chapter 8, 2D Materials for Energy Storage and ConversionbyEditor: Suresh C Pillai, Priyanka Ganguly, **IOP Publishing Ltd**, June 30, 2021, ISBN-10: 0750333170.

3. Susmita Bera, **Srabanti Ghosh**, Bandgap Engineering of Heterostructures for Visible Light-Driven Water Splitting. In: Garg S., Chandra A. (eds) Green Photocatalytic Semiconductors. Green Chemistry and Sustainable Technology. Springer, Cham. https://doi.org/10.1007/978-3-030-77371-7_23, 2021, pp 701-722.

4. **Srabanti Ghosh** and Paromita Hazra, "*Metal Oxide Catalysts for Photoelectrochemical Water Splitting*", Chapter 3, Metal Oxide-Based Nanostructured Electrocatalysts for Fuel Cells, Electrolyzers, and Metal-Air Batteries, Editors: Teko Napporn, Yaovi Holade, Series Editor: GhenadiiKorotcenkov, **Elsevier**Inc., 1st January 2021, ISBN**:**9780128184967.

5. **Srabanti Ghosh**, Marta E. G. Mosquera and Víctor A. de la Peña, "*Heterogeneous photocatalysis: Z-scheme based heterostructures"* Chapter 1, Heterostructured photocatalysts for solar energy conversion, Editor: Srabanti Ghosh, **Elsevier** Inc., 1st October 2020, ISBN**:** 9780128200728l.

6. Susmita Bera, **Srabanti Ghosh** and Rajendra N. Basu, "*Bismuth based heterostructured photocatalysts*", Chapter 8, pp.283-326, Heterostructured photocatalysts for solar energy conversion, Editor: Srabanti Ghosh, **Elsevier**Inc., 1st October 2020, ISBN**:** 9780128200728l.

7. **Srabanti Ghosh** and Dipanwita Majumdar, "*Chemical synthesis of conjugated polymer nanostructures*" Chapter 2, Conjugated Polymer Nanostructures for Energy Conversion and Storage, Editor: Srabanti Ghosh, **Wiley-VCH Verlag Gmbh& Co. KGaA**, Germany, 2020, ISBN: 978-3-572-34557-1

8. **Srabanti Ghosh** and Samim Sardar, "*Conjugated Polymer Nanostructures: Characterization*" Chapter 5, Conjugated Polymer Nanostructures for Energy Conversion and Storage, Editor: Srabanti Ghosh, **Wiley-VCH Verlag Gmbh& Co. KGaA**, Germany, 2020, ISBN: 978-3-572-34557-1.

9. **Srabanti Ghosh** "*Conjugated polymer nanostructures for photocatalysis*" Chapter 7, Conjugated Polymer Nanostructures for Energy Conversion and Storage, Editor: Srabanti Ghosh, **Wiley-VCH Verlag Gmbh& Co. KGaA**, Germany, 2020, ISBN: 978-3-572-34557-1.

10. **Srabanti Ghosh** and Rajendra N. Basu, "*Conjugated polymer nanostructures for catalysts support in fuel cells application*" Chapter 6, Conjugated Polymer Nanostructures for Energy Conversion and Storage, Editor: Srabanti Ghosh, **Wiley-VCH Verlag Gmbh& Co. KGaA**, Germany, April 2020, ISBN: 978-3-572-34557-1.

11. **Srabanti Ghosh**, "*Recent advances in photocatalytic water splitting and hydrogen generation (2015–2018)*", Photochemistry: Volume 47, Royal Society of Chemistry**,** Editors: Angelo Albini, Stefano Protti, 2020, 270 – 291, Print ISBN:978-1-78801-554-7.

12. **Srabanti Ghosh** and Rajendra N. Basu, "*Polymer-based nanocomposites for direct alcohol fuel cells"* in Nanomaterials for Alcohol Fuel Cell, **Materials Research Foundations**, Chapter 9, vol 49, May 2019, pp 271-292. Edited by: D Inamuddin, Tauseef Ahmad Rangreez, Fatih Şen, Abdullah M. Asiri, ISBN 978-1-64490-018-5

13. **Srabanti Ghosh**, Hynd Remita and Rajendra N. Basu, "*Conducting Polymers Nanostructures as Novel Materials for Efficient Solar Light Harvesting"* in "Visible-Light-Active Photocatalysis: Nanostructured Catalyst Design, Mechanisms, and Applications*"* by S. Ghosh (Editor) by **Wiley-VCH VerlagGmbh& Co. KGaA**, April, 2018, Chapter 9, pp227-252, ISBN: 978-3-527-34293-8

14. **Srabanti Ghosh** and Rajendra N. Basu, "*Nanoscale Characterization*", Chapter 4,Noble Metal-Metal Oxide Hybrid Nanoparticles, Fundamentals and Applications, Editors: Satyabrata Mohapatra, Tuan Anh Nguyen Phuong, Nguyen-Tri, 1st Edition, **Elsevier**, 1st October 2018, ISBN: 9780128141342.

15. **Srabanti Ghosh**, Maiyalagan Thandavarayan and Rajendra N. Basu, "*Recent advances in nanostructured electrocatalysts for direct alcohol fuel cells"* in Electrocatalysts for low temperature fuel cells–Fundamentals and Recent trendsEditedby T. Maiyalagan, Viswanathan S. Saji, **Wiley-VCH VerlagGmbh& Co. KGaA**, July 2017, Chapter 11, pp 347-372, ISBN: 978-3-527-34132-0.

16. Amit Dalui, Ali Hossain Khan, Bapi Pradhan, **Srabanti Ghosh** and Somobrata Acharya "*Aspects of One-Dimensional Nanostructures: Synthesis, Characterization, and applications"*in Materials Nanoarchitectonicsby Katsuhiko Ariga (Editor), Masakazu Aono (Editor) to be published by **Wiley-VCH VerlagGmbh& Co. KGaA**, Mar 2018, ISBN: 978-3-527-80831-1

17. **Srabanti Ghosh,** "*Surface Chemistry of NanoBioMaterials Surface Functionalized Hybrid Nanomaterials: Implications in Biosensing and Therapeutics*" **Applications of NanoBioMaterialsMulti-Volume SET (I-XI)** Edited by Alex Grumezescu, Elsevier aegis (USA), February 2016, Volume III: 2016\Elsevier\Volume 3\11, ISBN: 978-0-323-42861-3. 12.

18. **Srabanti Ghosh**, Aparna Datta, Debasmita Ghosh, Narayan R Yelluri and Abhijit Saha,*"Surface Functionalized Quantum Dots: Synthesis, Growth Kinetics and Biological Interfacing"* **Photonics and Quantum structures, Narosa Publishing House,** 2011, pp 33-46, Edited by: D. Mohanta and Gazi A. Ahmed.

19. Amiya Priyam, **Srabanti Ghosh**, Aparna Datta, Anindita Chatterjee and Abhijit Saha, *"A brief overview on synthesis and size dependent Photocatalytic behaviour of luminescent Semiconductor quantum dots"* Statistical Science and Interdisciplinary Research: Volume 12, **Recent Trends in Surface and Colloid Science**, 2012, pp 271-298, Edited by: Bidyut K Paul, Satya P Moulik.

INVITED TALKS/SEMINARS

1. "***Research frontiers in solar light harvesting: Artificial photosynthesis***" **S. Ghosh,** Young Scientists' Conference in IISF 2020, Frontier Areas of Sciences - Chemistry, Ministry of Science & Technology, The 6th India International Science Festival, Online, 23rd December 2020.

2. **"*Conducting Polymer Based Hybrid Nanomaterials for Visible-Light-Driven Photocatalysis*" S. Ghosh,** International Virtual workshop under Indo-French SPARC Scheme of Ministryof Education on Recent advances and applications of conducting polymer nanostructures and nanocomposites, 23rd – 24th June 2021.

3. **"*Conducting polymer nanostructures: Ground-breaking materials for visible light driven photocatalysis*" S. Ghosh,** at Maulana Abul Kalam Azad University of Technology, West Bengal, 6 to 11th December 2021.

4. "***Radiation-induced synthesis of nanostructured materials for energy conversion application***"**S. Ghosh**, Discussion Meeting of Contemporary Aspects of Radiation Based Material & Chemical Sciences: The Macro, The Nano & The Lights organized by UGC-DAE CSR, Kolkata in the virtual mode which is dedicated to a felicitation for Ph. D. mentor Dr. Abhijit Saha, Centre-Director of the Kolkata Centre held on 28th January, 2022.

5. "***Advanced nanomaterials for catalysis and energy: current status and future opportunities***" **S. Ghosh**, webinar organized by Department of Chemistry in collaboration with IQAC, Chandernagore College, West Bengal, held on 27th February, 2022.

6. "***Material Research for Sunlight Driven Water Splitting Devices towards Sustainable Hydrogen Production***" **S. Ghosh**, 75 i-Connect (Industry Connect) events organized by The Ministry of Science & Technology and Ministry of Earth Sciences, Government of India, Theme: Energy (Conventional and Non-conventional) and Energy Devices (EED), iCEN73: Industry Meet to Discuss on the Role of Advanced Ceramic Processing for Energy Conversion & Device Applications (IACPED): An Approach to Greener India through Solid Oxide Cell, Photocatalysis and Battery Technologies, held on 10th August 2022.

7. "***Conducting Polymer Nanostructures for Visible Light-Driven Photocatalysis: Mechanisms, Challenges, and Design Strategies***" **S. Ghosh**, 3nd Edition of International Conference on Materials Science and Engineering, September 21-22, 2022, Virtual Event organized by Material science, magnus conference, USA.

8. "***A design to device pipeline for new photoactive materials***", **S. Ghosh**, Pre-Conference Skill Training in International Conference onEmerging Materials for Sustainable Development, October 10-11, 2022 organized by IEEE Nanotechnology (NTC) AcSIR CSIO Student Chapter.

9. **"*Surface Engineering of Functional Nanostructures for H_2 Generation*", S. Ghosh**, "Workshop on Materials for Energy and Sustainability" organized by The National Academy of Sciences (NASI), Jharkhand Chapter in association with CSIR National Metallurgical Laboratory, Jamshedpur, on 20th January, 2023.

10. "***Conducting Polymer-Based Heterojunction for Photocatalytic Hydrogen Generation***" **S. Ghosh**, The 3rd International MOMENTOM International conference, organized by the Institutefor Sustainable Energy of the University Paris-Saclay in collaboration with the MSH Paris-Saclay from the 8th -10th March 2023 at the ENS Paris-Saclay, in France.

11. "***Electrochemistry of Nanostructured Materials: Implementation inEnergy Conversion Application***" **S. Ghosh**, International Conference on Women in Electrochemistry (ICWEC) organized by The Electrochemical Society of India (ECSI) during 7-8th April 2023 at IISc, Bengaluru.

RESEARCH PAPER ON CONFERENCES AND SYMPOSIUM

Oral Presentation

1. ***"Synthesis and Spectral Studies of ZnS/Dendrimer Nanocomposites: Surface Charge Tunability and Size Dependent Luminescence Anisotropy"*** **S. Ghosh**, A. Priyam, and A. Saha, National Seminar on Nanoparticles and its Applications held at Jadavpur University, Kolkata, 8-9th August, 2008.

2. ***"Using Solvated Electron in Self organization of Functionalized Inorganic-Organic Hybrid Nanocomposite Assemblies"*** **S. Ghosh**, A. Datta, N. Biswas, A. Datta and A. Saha on Young Scientist Colloquium (2nd**MRSI-2009**) held at Saha Institute of Nuclear Physics, Kolkata, 30th October, 2009.

3. ***"Biofunctionalized Quantum dots as Fluorescence Probes for the detection of Vitamin B_{12} in aqueous solution"*** **S. Ghosh,** A. Saha, M. Ray and S. Acharya, on "MODERN TRENDS IN SPECTROSCOPY: Its Application in Chemistry held at IACS, Kolkata, 3 & 4th February, 2011.

4. ***"Regulation of Enzyme Activity by Surface Functionalized Colloidal Nanoparticles"*** **S. Ghosh,** A. Chakrabarti, S. Acharya and M. Ray on XV National Conference on Surfactants, Emulsions and Bio-colloids (NATCOSEB-2011) held at Department of Chemistry, Tripura University, Tripura during 27-29th December, 2011.

5. ***"Modulation of Enzyme Activity by Surface Functionalized Quantum Dots"*** **S. Ghosh**, S. Acharya and M. Ray on ACHARYA P C RAY National Young Scientist' held at University of Calcutta, Kolkata, 17 & 18th February, 2012.

6. "***Surface Functionalized Nanomaterials for Biomedical Application"*** **S. Ghosh**, RBUCE-UP Mid Term Meeting held Saint-Aubin, France, 13th November, 2012.

7. ***"Shape Controlled Synthesis of Hybrid Nanostructure within Hexagonal Mesophases"*** **S. Ghosh**, S. Remita, L. Ramos, P. Beaunier and H. Remita, ColloqueNanohybrides 10 held at Porquerolles, France, 12-16th May, 2013.

8. ***"Hybrid Polymer Nanostructures in Swollen Hexagonal Mesophases: Application in Electrocatalysis"*** **S. Ghosh**, L. Ramos, P. Beaunier, A.-L. Teillout, P. de Oliveir and H. Remita, Nano-Hybrides, held at Université Paris-Diderot, Paris, France, 20 &21th January, 2014.

9. "***Facile Photochemical Synthesis of Polymer Nanostructure:Promising Photocatalysts under Visible-light"*** **S. Ghosh,** K. A. Natalie, L. Ramos, S. Remita, A. Dazzi, A. Deniset-Besseau, and H. Remita,, Journées de Printemps du Groupe français de photochimie, photophysique et photosciences (GFP2P) held at Marseille, France, 15-16th May, 2014.

10. **"*Radiation chemistry as an alternative way for the synthesis of PEDOT conducting polymers"*** C. Coletta, Z. Cui, Y. Lattach, **S. Ghosh** and S. Remita,15th International Conference on Polymers & Organic Chemistry (**POC-2014**) held atUniversity of Timisoara, Romania, 10-13th June, **2014**.

11. ***"Électrocatalyse de Nanomatériaux à base d'Or et à Structure Contrôlée Synthétisés par Radiolyse"*** Y. Holade, A. Lehoux, **S. Ghosh**, H. Remita, B. Kokoh and T. W. Napporn, GDR OrNanoheld Paris, France 17thJune, 2014.

12. ***"Synthesis of One-Dimensional Conducting Polymer Nanostructures and Hybrid Composites in Self-Assembled Matrices for Energy Applications"*** **S. Ghosh**, L. Ramos, S. Remita, A. -L. Teillout and H. Remita, 5th International Conference on Advanced Materials, ANM2014 held at Aveiro, Portugal, 2-4th July, 2014.

13. ***"One-Dimensional Conducting Polymer Nanostructures and Hybrid Composites Synthesized in Swollen Hexagonal Mesophases for Energy Applications"*** **S. Ghosh**, L. Ramos, S. Remita, A. Dazzi, A. -L. Teillout and H. Remita, Gordon Research Conference on Radiation Chemistry held at Proctor Academy, New Hampshire, USA, 13-18th July, 2014. **(Young Investigator Session)**

14. ***"Hybrid Polymer Nanostructures in Self-Assembled Matrices for Catalytic Applications"*** **S. Ghosh**, L. Ramos, P. Beaunier, A.-L. Teillout, P. de Oliveira and H. Remita, ICNN 2014: International Conference on Nanotechnology and Nanomedicine held at Venice, Italy, 14-15th August, 2014.

15. ***"Conducting Polymer Nanostructures: Promising Photocatalysts under Visible-Light"*** **S. Ghosh** and H. Remita, 19th International Conference on Semiconductor Photocatalysis& Solar Energy Conversion (SPASEC-19) held at Crowne Plaza Hotel, San Diego, California, USA, 16-20th, November, 2014. (Invited)

16. **"*Conducting Polymer Nanostructures for Photocatalysis under Visible-Light"*** H. Remita, **S. Ghosh**, N. A. Kouamé, L. Ramos, S. Remita, A. Dazzi, A. Deniset-Besseau, P. Beaunier, F. Goubard, P.-H. Aubert, The 20th International Conference on Semiconductor Photocatalysis and Solar Energy Conversion (SPASEC-20) held at San Diego, CA, USA, 16-19thNovember, 2015. (Invited)

17. ***"Conducting polymer nanostructures for photocatalysis under visible light"*** H. Remita, **S. Ghosh**, N. A. Kouamé, L. Ramos, S. Remita, A. Dazzi, A. Deniset-Besseau, P. Beaunier, F. Goubard, P.-H. Aubert, The XXIV International Materials Research Congress held at Cancun, Mexico, 16-21th August, 2015.

18. ***"Metal and Polymer Nanostructures Synthesized in Swollen Hexagonal Mesophases: Application in Fuel Cells"*** D. Floresyona, L. Ramos, **S. Ghosh**, A. -L. Teillout, P. de Oliveir and H. Remita, 2016 MRS Spring Meeting & Exhibit, held at Phoenix, Arizona, USA, 28th March-1st April, 2016.

19. ***"Conducting polymer nanostructures for photocatalysis under visible light"*** H. Remita, **S. Ghosh**, N. A. Kouamé, L. Ramos, S. Remita, A. Dazzi, A. Deniset-Besseau, P. Beaunier, F. Goubard, P.-H. Aubert, The XXIV International Materials Research Congress held at Cancun, Mexico, 15-18th August, 2016.

20. ***"Enhanced electrocatalytic activity of branched Pd nanostructures decorated conducting polymer nanofibers for alkaline fuel cells"*** **S. Ghosh**, S. Bera, N. Karmakar and R. N. Basu, International Conference on Functional Nano-Materials (IC-FNM 2016) Organized by CoE-TEQIP II and MND-SMSE, held at Indian Institute of Engineering Science and Technology, Shibpur, India, September 28-29th, 2016.

21. **"*Nanostructured conducting polymers for energy conversion applications: Implementation in photocatalysis and fuel cells"* S. Ghosh,** R. N. Basu, **IUMRS- ICYRAM 2016,** held atIndian Institute of Science, Bangalore**,** 11th -15th December, 2016.

22. ***"Nanostructured conducting polymers for energy conversion applications: Utilization in fuel cells and photocatalysis"*** **S. Ghosh**, R. N. Basu, International Conference on Energy Options for Tomorrow: Technology to Sustainability (**ICEOT 2017**) held on 17-19th April 2017, Kolkata.

23. ***"Conducting Polymer Nanostructures for Photocatalysis under Visible-Light"*** Remita, H.; Floresyona, D.; **Ghosh, S**.; Kouamé, N. A.; Ramos, L.; Remita, S.; Dazzi, A.; DenisetBesseau A., Goubard, F.; Aubert, P.-H. 2nd International Conference on New Photocatalytic Material for Environment, Energy and Sustainability (NPM-2), Ljubljana, Slovénie (July 2-6, 2017 2017)

24. ***"Enhanced solar energy conversion by plasmonic metal modified conducting polymer nanostructure: Solar Water Splitting"*** **S. Ghosh,** D. Rashmi, S. Bera, R. N. Basu, National Symposium on Recent Advances in Chemistry and Industry In Commemoration of the 156th Birth Anniversary of Acharya Prafulla Chandra Ray on 2nd-3rd, August 2017 organized by **The Indian Chemical Society** and Department of Chemistry IIEST, Shibpur Howrah, India.

25. "***Porosity Controlled of PdPt Bimetallic Nanoballs for Highly Enhanced Ethanol Oxidation***" D. Floresyona, A. L. Teillout, **S. Ghosh**, P. De Oliveira, L. Ramos, H. Remita, International Material Research Conference (IMRC), Cancun, Mexique on 20-25th August, 2017.

26. **"*Conjugated Polymer Nanostructures for Photocatalysis under Visible-Light*"** H. Remita, X. Yuan, S. M. Marinho, **S. Ghosh**, A. Aukauloo, W. Leibl, S. Remita, F. Goubard, P.-H. Aubert, in the Symposium on Nanomaterials for Environmental Purification and Energy Conversion – SNEPEC,

organized by Institute for Catalysis (ICAT), Hokkaido University, Sapporo, Japan, 20-21nd, February, 2018.

27. "***Conjugated Polymer Nanostructures for Photocatalysis under Visible-Light***" **(Key Note)** Remita, H.; Floresyona, D.; Yuan, X.; Mendes Marinho, S.; Ghosh, S.; Aukauloo, A.; Leibl, W.; Remita, S.;Goubard, F.; Aubert, P.H. SNEPEC - Symposium on Nanomaterials for Environmental Purification and Energy Conversion, Sapporo- Japon, 20-21 février 2018.

28. **"*Conjugated Polymer Nanostructures for Photocatalysis Under Visible-Light*"** H. Remita, X. Yuan, S. M. Marinho, **S. Ghosh**, A. Aukauloo, W. Leibl, S. Remita, F. Goubard, P.-H. Aubert, held at2018 **MRS Spring Meeting & Exhibit**, held at Phoenix, Arizona, USA, 2nd-6th April, 2018.

29. "***Conjugated Polymer Nanostructures for Photocatalysis under Visible-Light***" Remita, H.; Floresyona, D.; Yuan, X.; Mendes Marinho, S.; **Ghosh, S.;** Aukauloo, A.; Leibl, W.; Remita, S.; Goubard, F.; Aubert, P.H. MRS Material Research Society Conference, Phoenix USA, 2-6th April, 2018.

30. *"**Conjugated Polymer Nanostructures for Photocatalysis under Visible-Light**"* Remita, H.; Yuan, X.; Floresyona, D.; Mendes Marinho, S.; **Ghosh, S**.; Aukauloo, A.; Leibl, W.; Remita, S.; Goubard, F.; Aubert, P.-H." International Workshop on Photonics Polymer for Innovation, Suwa, Japan,14-18thOctober 2018.

31. **"*Conjugated Polymer Nanostructures for Photocatalysis under Visible-Light*"** (Plenary lecture) Remita, H.; Xiaojiao Yuan, X.; Floresyona, D.; Mendes Marinho, S.; **Ghosh, S**.; Aukauloo, A.; Leibl, W.; Remita, S.; Fabrice Goubard, F.; Aubert, P.-H. International Symposium on Solar Energy Materials, Kobe, Japan, 25-26th January 2019.

32. "***Enhanced Photocatalytic Activity of Metal Doped Bi_2WO_6 for Water Splitting under Visible Light***' by S. Bera, S. Samajdar, P. S. Das, **S. Ghosh**, at 85th Annual Session of Indian Ceramic Society on "Advances in Ceramics & Cement Technologies: Materials & Manufacturing" held on 13-14th December, 2021 virtually. (**Best Oral Presentation Award**)

33. "***Engineering of $BiOX/CuFe_2O_4$ heterostructures for sustainable fuel H_2 generation through water splitting***' by S. Bera, **S. Ghosh**, at 5th National Symposium on "Shaping the Energy Future: Challenges and Opportunities" (SEFCO-2021) held on 27th August, 2021 virtually.

34. "***Fabrication of a hierarchical Mo-Bi_2WO_6/Fe_2O_3 heterojunction via simultaneously metal doping and coupling with metal oxides for photoelectrochemical water splitting***" by S. Bera, V. R. Dhanak, **S. Ghosh**, at on day workshop on ADVANCED ENERGY MATERIALS & DEVICES (AEMD), held on 3rd March 2022, virtually. (**Selected for Oral Presentation Award**)

35. "***Role of Efficient Charge Transfer at the Interface between Mixed Phase Copper-Cuprous Oxide and Conducting Polymer Nanostructures for Green Fuel Generation***" by Susmita Bera, Sourabh Pal, **Srabanti Ghosh**, *in the Celebration of the 161st Birth Anniversary of Acharya Prafulla Chandra Ray* organized by the Indian Chemical Society in association with the Bangladesh Chemical Society, Bangladesh and Department of Chemistry, Jadavpur University, Kolkata during July 30-31 & August 02-03, 2022.

36. "***Visible-Light Driven Enhanced Photocatalytic Water Splitting Activity of ZnO Nanocrystals by Simultaneously Metal Doping and Coupling with Polypyrrole Nanofibers***" by Sourabh Pal, Aritra Banerjee, **Srabanti Ghosh**, *in the Celebration of the 161st Birth Anniversary of Acharya Prafulla*

Chandra Ray organized by the Indian Chemical Society in association with the Bangladesh Chemical Society, Bangladesh and Department of Chemistry, Jadavpur University, Kolkata during July 30-31 & August 02-03, 2022.

37. "***A Hydrothermal Route for Constructing Lanthanum Orthoferrite/Reduced Graphene Oxide Nanocomposite towards Photocatalytic H_2 Generation***" Soumita Samajdar, Maitrayee Biswas, Susmita Bera, **Srabanti Ghosh,** *in the Celebration of the 161st Birth Anniversary of Acharya Prafulla Chandra Ray* organized by the Indian Chemical Society in association with the Bangladesh Chemical Society, Bangladesh and Department of Chemistry, Jadavpur University, Kolkata during July 30-31 & August 02-03, 2022. (**Best paper presentation award)**

38. ***"Multidimensional metal oxide perovskites at 2D Graphene interface as photocatalysts for green H_2 production*****"** Soumita Samajdar**, Srabanti Ghosh,** 37th National Science Day Celebration & Global Science for Global Wellbeing–Lab to the Land, organized by Indian Photobiology Society, 3rd – 5th March 2023. (**Best paper presentation award)**

39. **"*Visible Light Driven Semiconductor Type-II Heterojunction for Enhanced Green Hydrogen Production*"** Dipendu Sarkar, Pradip Sekhar Das, **Srabanti Ghosh**, 37th National Science Day Celebration & Global Science for Global Wellbeing–Lab to the Land, organized by Indian Photobiology Society, 3rd – 5th March 2023.

40. ***"Band Gap Tunability of ZnO Nanocrystals by Immobilizing Conjugated Polymer Nanostructures: Implementation in Photocatalytic Water Splitting"*** Sourabh Pal, Dipendu Sarkar, Srabanti Ghosh, 37th National Science Day Celebration & Global Science for Global Wellbeing–Lab to the Land, organized by Indian Photobiology Society, 3rd – 5th March 2023. (**Best oral presentation award**)

INTERNATIONAL (Poster)

1. ***"Synthesis and spectral studies of CdTe/dendrimer nanocomposites"*** **S. Ghosh**, A. Priyam, A. Chatterjee and A. Saha on Frontiers of Radiation and Photochemistry held at Kerala, from 8th to 11th February 2007.

2. ***"Degree of Supersaturation: An Efficient Tool to Control Size Distribution in Colloidal Semiconductor Nanocrystals"*** A. Priyam, **S. Ghosh**, S. C. Bhattacharya and A. Saha*, Conference on Trend in Nanotechnology held at Spain, from 3th to 7th September, 2007.

3. ***"Size Tunability of CdTe Nanocrystals in Dendrimer Matrix and Temperature Dependent Focusing of Size Distribution"*** **S. Ghosh**, A. Priyam and A. Saha, International Conference on Recent Trend in Colloidal and interface held at Indian Statistical Institute, Kolkata from 3th to 7th November, 2007.

4. Another Paper under the title ***"Degree of Supersaturation: An Efficient Tool to Control Size Distribution and Photoluminescence Efficiency in Colloidal Quantum Dots"*** A. Priyam, **S. Ghosh** and A. Saha**(Selected for best poster award).**

5. ***"Size dependent luminescence quenching of CdTe quantum dots by Cu(II) ions: A step towards development of Cu(II) sensors in physiological conditions"*** **S. Ghosh**, A. Priyam and A. Saha, on Trombay Symposium on radiation and photochemistry (**TSRP-2008**) held at Yashada, Pune 7th to 13th January, 2008.

6. ***"Synthesis and spectral studies of ZnS/Dendrimer nanocomposites"*** **S. Ghosh**, A. Priyam, and A. Saha, International Conference on Nano Science and Technology (**ICONSAT-2008**) held at Chennai, Tamil Nadu, 27th to 29th February, 2008.

7. ***"Radiation induced self-organization of functionalized inorganic-organic hybrid nanocomposite"*** **S. Ghosh**, A. Datta, N. Biswas, A. Datta and A. Saha, on **APSRC-TSRP-2010** held at Lonavala, Mumbai 14th to 17th September, 2010. **(Best poster Award)**

8. Another Paper under the title ***"Quantum Dot based probing of mannitol: An implication in nano-diagnostics"*** D. Ghosh, **S. Ghosh** and A. Saha.

9. ***"Semiconductor/Dendrimer Nanocomposites as new generation antimicrobial agents: Implications in therapeutics"*** **S. Ghosh**, D. Ghosh, P. K. Bag, S. C. Bhattacharya and A. Saha, on **ICFANT-2010** held at Jadavpur University9th to 11th December, 2010**.**

10. Another paper under the title ***"Biomimetic synthesis of BSA capped CdS QDs"*** D. Ghosh, **S. Ghosh** and A. Saha.

11. Another paper under the title ***"γ-Irradiation route to photoluminescent Selenium-based QDs under ambient conditions"*** A. Datta, Y. N. Rao, **S. Ghosh,** A. Saha.

12. ***"Biofunctionalized quantum dots as fluorescence probes for the detection of Vitamin B_{12} in aqueous solution"*** **S. Ghosh**, S. Mondal and A. Saha on **NANOS-2010** held at Gitam University, Vishakhapatnam, Andhra Pradesh, 17th to 19th December, 2010.

13. ***"Role of protein conformation in biomimetic synthesis of semiconductor nanoparticles"*** D. Ghosh, S. Mondal, **S. Ghosh** and A. Sahaon 2nd International Conference on 'Advanced Nanomaterials and Nanotechnology (**ICANN-2011**) organized jointly by the Department of Physics and Centre for Nanotechnology held at the Indian Institute of Technology Guwahati, 8th to 10th December, 2011**.**

14. ***"Modulation of enzyme activity by nanoparticles: Suppress growth of carcinoma and sarcoma Cells"*** **S. Ghosh**, A. Chakrabarti, S. Acharya and M. Ray, on **TSRP-2012** held at Mumbai 4th to 7th January, 2012.

15. ***"Polymer based Nanoformulation of Methylglyoxal as an Antimicrobial Agent: Efficacy against Resistant Bacteria"*** **S. Ghosh,** M. Ray and S. Acharya, International Conference on Recent Advances in Chemical & Physical Biology, held at Saha Institute of Nuclear Physics, Kolkata, 5th -7thMarch, 2012.

16. ***"Conducting Polymer Nanostructures and Hybrid Nanomaterials Synthesized in Self-Assembled Matrices"*** **S. Ghosh**, S. Remita, L. Ramos, A. Dazzi, A. Deniset-Besseau, P. Beaunier, F. Goubard, P.-H. Aubert and H. Remita, 2013 **MRS Fall Meeting & Exhibit** held at Boston, Massachusetts, 1st -6th December, 2013.

17. ***"Conducting Polymer Nanostructures: Promising Photocatalysts under Visible-light"*** **S. Ghosh**, A. Natalie Kouamé, A. Dazzi, A. Deniset-Besseau and H. Remita, 2014 XXIII INTERNATIONAL MATERIALS RESEARCH CONGRESS **(IMRC)** held at Cancun, Mexico, August, 17th-21th, 2014.

18. ***"Conducting Polymer Nanostructures as Promising Photocatalysts under Visible-Light"*** **S. Ghosh**, K. A. Natalie, L. Ramos, S. Remita, A. Dazzi, A. D. Besseau, F. Goubard, P. –H. Aubert and H. Remita,

International Workshop Nanomaterials for Energy and Environmentheld at Universite-Paris Saclay, Paris, France, March, 18th-20th, 2014.

19. ***"Conducting polymers and semiconductor nanoparticles for solar light harvesting"*** L. Hernández-Adame, **S. Ghosh**, and H. Remita, International Workshop onPolymer Photocatalysts for Solar Fuels Synthesis, held at University College London – Department of Chemistry, April 13-14th, 2016.

20. ***"Significantly Enhanced Visible-Light-Induced Photocatalytic Performance of Hybrid Conducting Polymer Functionalized ZnONanoparticles"*** **S. Ghosh**, R. N. Basu, International Conference on ceramic glass and refractory-Emerging Innovation, International conference on ceramic glass and refractory-Emerging Innovation, INDIAN **CERAMIC SOCIETY**, 80th annual session at Hyderabad, December 13th-15th, 2016.

21. ***"Enhanced Electrocatalytic Activity of Conducting Polymer Supported Pt Nanoparticles for Anodic Oxidation of Methanol in Alkali"*** S. Bera, **S. Ghosh**, R. N. Basu, International conference on ceramic glass and refractory-Emerging Innovation, INDIAN **CERAMIC SOCIETY**, 80th annual session at Hyderabad, December 13th -15th, 2016.

22. ***"Heterojunction construction between Bi_2S_3 nanowires and crystalline ZnO nanoparticles for enhanced photocatalysis under visible light"*** S. Bera, **S. Ghosh**, R. N. Basu, International Conference onEnergy Options for Tomorrow: Technology to Sustainability (**ICEOT 2017**) held on 17-19th April 2017, Kolkata. **(Best poster Award)**

23. ***"Conjugated Polymer Nanostructures as Highly Active Photocatalysts under Solar Light"*** D. Floresyona, H. Remita, F. Goubard, P. H. Aubert, I.Lampre, A. Dazzi, **S. Ghosh,** S.Remita, L.Ramos, International Material Research Conference (MRS), Cancun, Mexique on 20-25th August, 2017.

24. ***"A Ternary Plasmonic Cu-Ag/$AgVO_3$ Heterostructured Photocatalyst for Solar Photocatalytic H_2Generation"*** S. Bera, **S. Ghosh** and R. N. BasuCelebrating the 125th birth anniversary of Professor Satyendranath Bose, International Conference on Complex and Functional Materials (**ICCFM-2018**) held during 13th-16th December, 2018, organized by S. N. Bose National Centre for Basic Sciences, Kolkata.

25. ***"Visible-Light Driven Photocatalytic Activity of MoS_2 Based Nanocomposites for H_2 Generation"*** A. Kumari, S. Bera, **S. Ghosh**, R. N. Basu, International Conference on Complex and Functional Materials (**ICCFM-2018**) held during 13th-16th December, 2018, organized by S. N. Bose National Centre for Basic Sciences, Kolkata.

26. **"*Hybrid SnO_2/Graphene nanostructures as Anode Materials for Lithium Ion Batteries*"** A. Kumar, **S. Ghosh**, R. N. Basu, International Conference on Complex and Functional Materials(**ICCFM-2018**) held during 13th-16th December, 2018, organized by S. N. Bose National Centre for Basic Sciences, Kolkata.

27. **"*Carbon Dioxide Capture in Layered Double Hydroxide Nanosheets*"** P. Adhya, **S. Ghosh** and R. N. Basu, International Conference on Complex and Functional Materials (**ICCFM-2018**) held during 13th-16th December, 2018, organized by S. N. Bose National Centre for Basic Sciences, Kolkata.

NATIONAL (Poster)

28. **"*Synthesis of nanoparticles of titanium oxide using sol gel chemistry*"** M. Sharma, **S. Ghosh**, S. Bhasin and N. Chandra, National seminar on materials for advance technologies **NASMAT–2006** held at Pune, India, 23th -25th January, 2006.

29. Another Paper under the title "***A novel process for making $Ni(OH)_2$ Nanoparticles at ambient temperature***"S. Bhasin, **S. Ghosh,** and N. Chandra.

30. **"*A sensitive method for the detection of ascorbic acid based on fluorescence quenching of CdS/Dendrimer nanocomposites*" S. Ghosh**, and A. Saha on Material Research Society of India (**MRSI-2009**) held at Saha Institute of Nuclear Physics, Kolkata, 10th to 13th February, 2009.

31. **"*Synthesis and Characterization of dendrimer based CdS Nanocomposite under Ambient Conditions through γ-Irradiation Route*" S. Ghosh**, A. Datta and A. Saha on National Symposium on Radiation and Photochemistry (**NSRP-2009**) held at KumaunUnivesity, Nainital 12th to 14th March, 2009. **(Best poster Award)**

32. **"*Immunotherapeutic prospects of polymer conjugated nano formulation of methylglyoxal against cancer*"** A. Chakrabarti and **S. Ghosh** on **80thAnnual Meeting of the Society of Biological Chemists**, (India), held at Central Institute of Medicinal and Aromatic Plant, Lucknow, 12th to 15th November, 2011.

33. **"*Surface Functionalized Nanomaterials for Application in Cancer Biology and Medicine*" S. Ghosh**, **M. Ray and S. Acharya** on Young Scientist Colloquium (**MRSI-2012**) held at CSIR-Central Glass and Ceramic research Institute, Kolkata, 8thAugust, 2012. **(Best poster Award)**

34. ***"Visible-light-driven enhanced photoresponse of Bi_2S_3/ZnO heterostructures: Photocatalytic hydrogen evolution and photoelectrochemical performance"*** S. Bera, **S. Ghosh**, R. N. Basu, National Symposium on Recent Advances in Chemistry and Industry In Commemoration of the 156th Birth Anniversary of Acharya Prafulla Chandra Ray on August 02 & 03, 2017 organized by The Indian Chemical Society 92, and IIEST, Shibpur Howrah, India. (**First Prize in poster presentation**)

35. ***"Synthesis of Au-$BiFeO_3$ heterostructured photocatalysts for visible light driven photocatalytic hydrogen generation"*** S. Bera, **S. Ghosh**, R. N. Basu, RECENT TRENDS IN CONDENSED MATTER PHYSICS, on 31st October to 3rd November, 2017, organized by Bose Institute, Kolkata.

36. ***"Highly active multimetallic nano alloys embedded in conducting polymer: Implementation in fuel cells and photocatalysis"*** **S. Ghosh**, S. Bera, R. N. Basu, MRSI National Symposium on "Advances in Functional and Exotic Materials" held at SRM Hotel during 14 -16th February 2018, organized by **MRSI–Trichy Chapter** and the Centre for High Pressure Research, Bharathidasan University, Tiruchirappalli.

37. ***"$BiFeO_3$ Perovskite based heterostructured photocatalysts for photocatalytic hydrogen generation"*** S. Bera, **S. Ghosh**, R. N. Basu, "Advances in Functional and Exotic Materials" held at SRM Hotel during 14 -16th February 2018, organized by **MRSI–Trichy Chapter** and the Centre for High Pressure Research, Bharathidasan University, Tiruchirappalli.

38. ***"Use of Heterogeneous Photocatalysts to Produce Hydrogen"*** by S. Bera, **S. Ghosh**, R. N. Basu at the Young Scientist Colloquium-2019, MRSI, Kolkata Chapter held on 17th September, 2019 at Saha Institute of Nuclear Physics, Kolkata.

39. ***"Solar Light Driven Photocatalytic H_2 Generation by MoS_2/Bi-TiO_2 Nanocomposites"*** by S. Bera, **S. Ghosh**, R. N. Basu at the 83rd Annual Session of Indian Ceramic Society (InCerS) held on 11th-12th December, 2019 at CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, Kerala, India.

40. ***"Temperature Dependent Phase Transition of $AgVO_3$ and its effect on Photocatalytic Activity"*** by S. Bera, **S. Ghosh**, R. N. Basu at the 22nd DAE – BRNS Workshop & Symposium on Thermal Analysis (THERMANS- 2020) held on 28thJanuary -1stFebruary, 2020 at Multipurpose Hall, BARC Training School Hostel Anushaktinagar, Mumbai, India.

41. ***"Fabrication of BiOCl/$CuFe_2O_4$ Heterostructures for Highly Efficient Photocatalytic Applications"*** by S. Bera, **S. Ghosh**, R. N. Basu at the RECENT TRENDS in CATALYSIS (RTC2020) held on February 26-29th, 2020, NIT Calicut, Kozhikode, India.

42. "***Development of Bi modified TiO_2/MoS_2 Nanocomposites for Visible Light Driven Photocatalytic H_2Generation***"by S. Bera, **S. Ghosh**, R. N. Basu at the 2nd Indian Materials Conclave and 31st AGM of MRSI (MRSI-AGM), February 11-14, 2020, CSIR-CGCRI, Kolkata.

43. "***Enhanced Photoelctrochemical Water Splitting by Bi doped WO_3 Semiconductor***" by P. Hajra, **S. Ghosh**, R. N. Basu, at the 2nd Indian Materials Conclave and 31st AGM of MRSI (MRSI-AGM), February 11-14, 2020, CSIR-CGCRI, Kolkata.

44. "***Synthesis of Manganese, Niobium and Tantalum co-doped Perovskite Cathode of Low-Temperature Solid Oxide Fuel Cell***" by A. Banerjee, Q. A. Islam, **S. Ghosh**, R. N. Basu, at the 2nd Indian Materials Conclave and 31st AGM of MRSI (MRSI-AGM), February 11-14, 2020, CSIR-CGCRI, Kolkata.

45. "***Band Structure Engineering to Modulate the Charge Transfer Pathway in Heterostructures for Photocatalytic Water Splitting*"** Susmita Bera, T. Maiyalagan, Rajendra Nath Basu, **Srabanti Ghosh**, Young Scientists' Colloquium, 16 December, 2022, Organized by Materials Research Society of India (MRSI), Kolkata Chapter.

46. ***"Solution-based Synthesis of Metal oxide based 2DNanocomposite for High-performance Photocatalytic Application and H_2 Generation"*** Soumita Samajdar and **Srabanti Ghosh**, Organized by DAE-BRNS 9th Interdisciplinary Symposium on Materials Chemistry (ISMC-2022) during Dec. 7-10, 2022 at DAE Convention Centre, Anushakti Nagar, Mumbai.

47. "***Band Structure Engineering to Modulate the Charge Transfer Pathway in Heterostructures for Photocatalytic Water Splitting***" Susmita Bera, T. Maiyalagan, Rajendra Nath Basu, **Srabanti Ghosh**, in Young Scientists' Colloquium -2022, Organized by Materials Research Society of India (MRSI), Kolkata Chapter, during 16 December, 2022.

48. **"*Role of different carbon supports in the enhancement of the photocatalytic water splitting activity of Sodium Bismuth Titanate*"** Soumita Samajdar and **Srabanti Ghosh,** Workshop on Materials for Energy and Sustainability" organized by The National Academy of Sciences (NASI), Jharkhand Chapter in association with CSIR National Metallurgical Laboratory, Jamshedpur, on 20th January, 2023.

49. **"Fabrication of Mo-Bi_2WO_6/Conjugated Polymer Heterojunction for Enhanced Photoelectrochemical Water Splitting"** Dipendu Sarkar and **Srabanti Ghosh,** Workshop on Materials for Energy and Sustainability" organized by The National Academy of Sciences (NASI), Jharkhand Chapter in association with CSIR National Metallurgical Laboratory, Jamshedpur, on 20th January, 2023.