

Srabanti Ghosh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

3,439
citations

34
h-index

57
g-index

91
ext. papers

4,074
ext. citations

6.4
avg, IF

6.25
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 90 | Bandgap Engineering of Heterostructures for Visible Light-Driven Water Splitting. <i>Green Chemistry and Sustainable Technology</i> , 2022 , 701-722 | 1.1 | 0 |
| 89 | Band Edge Engineering of BiOX/CuFe ₂ O ₄ Heterostructures for Efficient Water Splitting. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3821-3833 | 6.1 | 3 |
| 88 | Hierarchical Bi ₂ WO ₆ /BiFeWO ₆ n-n Heterojunction as an Efficient Photocatalyst for Water Splitting under Visible Light. <i>Journal of Alloys and Compounds</i> , 2022 , 165700 | 5.7 | 1 |
| 87 | Chemical Synthesis of Conducting Polymers Nanostructures 2021 , 43-83 | | |
| 86 | Conjugated Polymer Nanostructures for Electrochemical Capacitor and Lithium-Ion Battery Applications 2021 , 357-400 | | |
| 85 | Fundamentals of Conjugated Polymer Nanostructures 2021 , 1-42 | | 1 |
| 84 | Template-Free Synthesis of Nanostructured Conjugated Polymer Films 2021 , 85-115 | | |
| 83 | Conducting Polymers Nanowires with Carbon Nanotubes or Graphene-Based Nanocomposites for Supercapacitors Applications 2021 , 445-497 | | 0 |
| 82 | Conjugated Polymer-Based Nanocomposites as Photocatalysts 2021 , 267-296 | | 2 |
| 81 | Use of High Energy Radiation for Synthesis and Kinetic Study of Conjugated Polymers 2021 , 117-157 | | |
| 80 | Conjugated Polymer Nanostructures for Catalysts Support in Fuel Cells Application 2021 , 207-232 | | |
| 79 | Recent advancements of copper oxide based nanomaterials for supercapacitor applications. <i>Journal of Energy Storage</i> , 2021 , 34, 101995 | 7.8 | 19 |
| 78 | Non-enzymatic electrochemical glucose sensing by Cu ₂ O octahedrons: elucidating the protein adsorption signature. <i>New Journal of Chemistry</i> , 2021 , 45, 628-637 | 3.6 | 2 |
| 77 | Polymeric ruthenium precursor as a photoactivated antimicrobial agent. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123788 | 12.8 | 6 |
| 76 | Bismuth-based heterostructured photocatalysts 2021 , 283-325 | | |
| 75 | Conjugated polymer nanostructures displaying highly photoactivated antimicrobial and antibiofilm functionalities. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 4390-4399 | 7.3 | 4 |
| 74 | Assemble of Bi-doped TiO onto 2D MoS: an efficient p-n heterojunction for photocatalytic H generation under visible light. <i>Nanotechnology</i> , 2021 , 32, 195402 | 3.4 | 6 |

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| 73 | Conjugated Polymer Nanostructures: Characterization 2021 , 159-203 | | |
| 72 | Heterogeneous photocatalysis: Z-scheme based heterostructures 2021 , 1-38 | | |
| 71 | Conducting Polymer-Based Nanohybrids for Fuel Cell Application. <i>Polymers</i> , 2020 , 12, | 4.5 | 15 |
| 70 | Carbon dots and Bi ₄ O ₅ Br ₂ adhered on TiO ₂ nanoparticles: Impressively boosted photocatalytic efficiency for removal of pollutants under visible light. <i>Separation and Purification Technology</i> , 2020 , 250, 117179 | 8.3 | 25 |
| 69 | Silver as solid-state electron mediator in MoS ₂ /AgVO ₃ Z-Scheme heterostructures for photocatalytic H ₂ generation. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154527 | 5.7 | 21 |
| 68 | Efficiently enhanced nitrogen fixation performance of g-C ₃ N ₄ nanosheets by decorating Ni ₃ V ₂ O ₈ nanoparticles under visible-light irradiation. <i>Ceramics International</i> , 2020 , 46, 24472-24482 | 5.1 | 13 |
| 67 | Anchoring Bi ₄ O ₅ I ₂ and AgI nanoparticles over g-C ₃ N ₄ nanosheets: Impressive visible-light-induced photocatalysts in elimination of hazardous contaminants by a cascade mechanism. <i>Advanced Powder Technology</i> , 2020 , 31, 2618-2628 | 4.6 | 19 |
| 66 | ZnO/ZnBi ₂ O ₄ nanocomposites with p-n heterojunction as durable visible-light-activated photocatalysts for efficient removal of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 154229 | 5.7 | 43 |
| 65 | Novel ZnO/CuBi ₂ O ₄ heterostructures for persulfate-assisted photocatalytic degradation of dye contaminants under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 391, 112397 | 4.7 | 38 |
| 64 | Enhanced solar hydrogen generation using Cu ₂ O integrated polypyrrole nanofibers as heterostructured catalysts. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 6159-6173 | 6.7 | 22 |
| 63 | Synthesis of novel ternary g-C ₃ N ₄ /SiC/C-Dots photocatalysts and their visible-light-induced activities in removal of various contaminants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 392, 112431 | 4.7 | 37 |
| 62 | Visible-light-induced nitrogen photofixation ability of g-C ₃ N ₄ nanosheets decorated with MgO nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 84, 185-195 | 6.3 | 77 |
| 61 | Nitrogen photofixation ability of g-CN nanosheets/BiMoO heterojunction photocatalyst under visible-light illumination. <i>Journal of Colloid and Interface Science</i> , 2020 , 563, 81-91 | 9.3 | 106 |
| 60 | Improving visible-light-induced photocatalytic ability of TiO ₂ through coupling with Bi ₃ O ₄ Cl and carbon dot nanoparticles. <i>Separation and Purification Technology</i> , 2020 , 238, 116404 | 8.3 | 45 |
| 59 | Synthesis of novel p-n-p BiOBr/ZnO/BiOI heterostructures and their efficient photocatalytic performances in removals of dye pollutants under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 389, 112247 | 4.7 | 38 |
| 58 | Novel ZnO/Ag ₃ PO ₄ /AgI photocatalysts: Preparation, characterization, and the excellent visible-light photocatalytic performances. <i>Materials Science in Semiconductor Processing</i> , 2020 , 119, 105229 | 4.3 | 18 |
| 57 | BiOBr and BiOCl decorated on TiO ₂ QDs: Impressively increased photocatalytic performance for the degradation of pollutants under visible light. <i>Advanced Powder Technology</i> , 2020 , 31, 3582-3596 | 4.6 | 16 |
| 56 | Solid-State Electrolytes and Electrode Materials for Fuel Cell Application. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 2073-2090 | 1.2 | 1 |

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|----|---|------|-----|
| 55 | Nanoscale Characterization 2019 , 65-93 | | 1 |
| 54 | Functionalized conjugated polymer with plasmonic Au nanoalloy for photocatalytic hydrogen generation under visible-NIR. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13262-13272 | 6.7 | 13 |
| 53 | Bimetallic Pd ₉₆ Fe ₄ nanodendrites embedded in graphitic carbon nanosheets as highly efficient anode electrocatalysts. <i>Nanoscale Advances</i> , 2019 , 1, 3929-3940 | 5.1 | 11 |
| 52 | Photocatalytic hydrogen generation using gold decorated BiFeO ₃ heterostructures as an efficient catalyst under visible light irradiation. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 194, 195-206 | 6.4 | 50 |
| 51 | Photocatalytic degradation of organic pollutant with polypyrrole nanostructures under UV and visible light. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 284-292 | 21.8 | 100 |
| 50 | Swollen hexagonal liquid crystals as smart nanoreactors: implementation in materials chemistry for energy applications. <i>Nanoscale</i> , 2018 , 10, 5793-5819 | 7.7 | 19 |
| 49 | Research Frontiers in Solar Light Harvesting 2018 , 1-26 | | |
| 48 | Conducting Polymers Nanostructures for Solar-Light Harvesting 2018 , 227-252 | | 3 |
| 47 | Enhanced photocatalytic activity and photoresponse of poly(3,4-ethylenedioxythiophene) nanofibers decorated with gold nanoparticle under visible light. <i>Solar Energy</i> , 2018 , 159, 548-560 | 6.8 | 43 |
| 46 | Visible-light-induced reduction of Cr(VI) by PDPB-ZnO nanohybrids and its photo-electrochemical response. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 362-372 | 21.8 | 65 |
| 45 | Multifunctional nanostructured electrocatalysts for energy conversion and storage: current status and perspectives. <i>Nanoscale</i> , 2018 , 10, 11241-11280 | 7.7 | 177 |
| 44 | Fabrication of Bi ₂ S ₃ /ZnO heterostructures: an excellent photocatalyst for visible-light-driven hydrogen generation and photoelectrochemical properties. <i>New Journal of Chemistry</i> , 2018 , 42, 541-554 | 3.6 | 64 |
| 43 | Enhanced Electrocatalytic Activity of Branched Pd Nanostructures Decorated Conducting Polymer Nanofibers for Alkaline Fuel Cells. <i>Materials Today: Proceedings</i> , 2018 , 5, 9733-9742 | 1.4 | 2 |
| 42 | Highly active poly(3-hexylthiophene) nanostructures for photocatalysis under solar light. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 23-32 | 21.8 | 55 |
| 41 | Two-Dimensional (2D) Nanomaterials towards Electrochemical Nanoarchitectonics in Energy-Related Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2017 , 90, 627-648 | 5.1 | 321 |
| 40 | Recent Advances in Nanostructured Electrocatalysts for Low-temperature Direct Alcohol Fuel Cells 2017 , 347-371 | | 4 |
| 39 | Synergistic Effects of Polypyrrole Nanofibers and Pd Nanoparticles for Improved Electrocatalytic Performance of Pd/PPy Nanocomposites for Ethanol Oxidation. <i>Electrocatalysis</i> , 2017 , 8, 329-339 | 2.7 | 16 |
| 38 | Conducting polymer nanofiber-supported Pt alloys: unprecedented materials for methanol oxidation with enhanced electrocatalytic performance and stability. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1148-1161 | 5.8 | 33 |

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|----|---|-----|-----|
| 37 | Improved Catalysis of Green-Synthesized Pd-Ag Alloy-Nanoparticles for Anodic Oxidation of Methanol in Alkali. <i>Electrochimica Acta</i> , 2017 , 225, 310-321 | 6.7 | 52 |
| 36 | Reduced graphene oxide supported hierarchical flower like manganese oxide as efficient electrocatalysts toward reduction and evolution of oxygen. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4111-4122 | 6.7 | 41 |
| 35 | Highly active 3-dimensional cobalt oxide nanostructures on the flexible carbon substrates for enzymeless glucose sensing. <i>Analyst, The</i> , 2017 , 142, 4299-4307 | 5 | 30 |
| 34 | Highly Active Multimetallic Palladium Nanoalloys Embedded in Conducting Polymer as Anode Catalyst for Electrooxidation of Ethanol. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33775-33790 | 9.5 | 59 |
| 33 | ENHANCED AND SYNERGISTIC CATALYSIS OF ONE-POT SYNTHESIZED PALLADIUM-NICKEL ALLOY NANOPARTICLES FOR ANODIC OXIDATION OF METHANOL IN ALKALI. <i>Electrochimica Acta</i> , 2017 , 250, 124-134 | 6.7 | 19 |
| 32 | Facile synthesis of reduced graphene oxide-gold nanohybrid for potential use in industrial waste-water treatment. <i>Science and Technology of Advanced Materials</i> , 2016 , 17, 375-386 | 7.1 | 42 |
| 31 | A Peptide-Based Mechano-sensitive, Proteolytically Stable Hydrogel with Remarkable Antibacterial Properties. <i>Langmuir</i> , 2016 , 32, 1836-45 | 4 | 78 |
| 30 | Nanostructured conducting polymers for energy applications: towards a sustainable platform. <i>Nanoscale</i> , 2016 , 8, 6921-47 | 7.7 | 173 |
| 29 | Biological activity of dendrimer-methylglyoxal complexes for improved therapeutic efficacy against malignant cells. <i>RSC Advances</i> , 2016 , 6, 6631-6642 | 3.7 | 8 |
| 28 | Hierarchical 3-dimensional nickel-iron nanosheet arrays on carbon fiber paper as a novel electrode for non-enzymatic glucose sensing. <i>Nanoscale</i> , 2016 , 8, 843-55 | 7.7 | 72 |
| 27 | Microwave-assisted synthesis of porous Mn ₂ O ₃ nanoballs as bifunctional electrocatalyst for oxygen reduction and evolution reaction. <i>Catalysis Science and Technology</i> , 2016 , 6, 1417-1429 | 5.5 | 65 |
| 26 | Surface functionalized hybrid nanomaterials: Implications in biosensing and therapeutics 2016 , 1-32 | | |
| 25 | One-pot synthesis of reduced graphene oxide supported gold-based nanomaterials as robust nanocatalysts for glucose electrooxidation. <i>Electrochimica Acta</i> , 2016 , 212, 864-875 | 6.7 | 49 |
| 24 | Enhanced photovoltage in DSSCs: synergistic combination of a silver modified TiO ₂ photoanode and a low cost counter electrode. <i>RSC Advances</i> , 2016 , 6, 33433-33442 | 3.7 | 14 |
| 23 | Conducting polymer nanostructures for photocatalysis under visible light. <i>Nature Materials</i> , 2015 , 14, 505-11 | 27 | 454 |
| 22 | Nano surface engineering of Mn ₂ O ₃ for potential light-harvesting application. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8200-8211 | 7.1 | 53 |
| 21 | Conducting polymer nanofibers with controlled diameters synthesized in hexagonal mesophases. <i>New Journal of Chemistry</i> , 2015 , 39, 8311-8320 | 3.6 | 28 |
| 20 | Visible-light active conducting polymer nanostructures with superior photocatalytic activity. <i>Scientific Reports</i> , 2015 , 5, 18002 | 4.9 | 75 |

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|----|--|-------|----|
| 19 | Enhanced Charge Separation and FRET at Heterojunctions between Semiconductor Nanoparticles and Conducting Polymer Nanofibers for Efficient Solar Light Harvesting. <i>Scientific Reports</i> , 2015 , 5, 17313-9 | 4.9 | 68 |
| 18 | Facile synthesis of Pd nanostructures in hexagonal mesophases as a promising electrocatalyst for ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9517-9527 | 13 | 52 |
| 17 | Conducting polymer-supported palladium nanoplates for applications in direct alcohol oxidation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 4951-4959 | 6.7 | 65 |
| 16 | Modulation of glyceraldehyde-3-phosphate dehydrogenase activity by surface functionalized quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5276-83 | 3.6 | 17 |
| 15 | PEDOT nanostructures synthesized in hexagonal mesophases. <i>New Journal of Chemistry</i> , 2014 , 38, 1106-1115 | 3.615 | 62 |
| 14 | Polymer based nanoformulation of methylglyoxal as an antimicrobial agent: efficacy against resistant bacteria. <i>RSC Advances</i> , 2014 , 4, 23251-23261 | 3.7 | 14 |
| 13 | Radiation-induced synthesis of nanostructured conjugated polymers in aqueous solution: fundamental effect of oxidizing species. <i>ChemPhysChem</i> , 2014 , 15, 208-18 | 3.2 | 21 |
| 12 | Radiation-induced synthesis of self-organized assemblies of functionalized inorganic-organic hybrid nanocomposites. <i>RSC Advances</i> , 2013 , 3, 14406 | 3.7 | 6 |
| 11 | Controlled synthesis of spin glass nickel oxide nanoparticles and evaluation of their potential antimicrobial activity: A cost effective and eco friendly approach. <i>RSC Advances</i> , 2013 , 3, 19348 | 3.7 | 65 |
| 10 | Protein conformation driven biomimetic synthesis of semiconductor nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 699-706 | | 43 |
| 9 | Physico-Chemical Aspects of Quantum Dot-Vasodialator Interaction: Implications in Nanodiagnosics. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 9774-9782 | 3.8 | 13 |
| 8 | Fabrication of Highly Stable, Hybrid PbS Nanocomposites in PAMAM Dendrimer Matrix for Photodetection. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6022-6030 | 3.8 | 23 |
| 7 | Probing of ascorbic acid by CdS/dendrimer nanocomposites: a spectroscopic investigation. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 1573-82 | 4.4 | 28 |
| 6 | Quantum dot based probing of mannitol: an implication in clinical diagnostics. <i>Analytica Chimica Acta</i> , 2010 , 675, 165-9 | 6.6 | 12 |
| 5 | Single step synthesis of highly stable good quality water soluble semiconductor/dendrimer nanocomposites through irradiation route. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 355, 130-138 | 5.1 | 12 |
| 4 | Mechanistic aspects of quantum dot based probing of Cu (II) ions: role of dendrimer in sensor efficiency. <i>Journal of Fluorescence</i> , 2009 , 19, 723-31 | 2.4 | 36 |
| 3 | Synthesis and Spectral Studies of CdTe-Dendrimer Conjugates. <i>Nanoscale Research Letters</i> , 2009 , 4, 937-941 | | 20 |
| 2 | Surface charge tunability and size dependent luminescence anisotropy of aqueous synthesized ZnS/Dendrimer nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6726-35 | 1.3 | 11 |

1 Conjugated Polymer Nanostructures for Photocatalysis 233-265

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