

Srabanti Ghosh

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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	Conducting polymer nanostructures for photocatalysis under visible light. <i>Nature Materials</i> , 2015 , 14, 505-11	27	454
89	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
88	Multifunctional nanostructured electrocatalysts for energy conversion and storage: current status and perspectives. <i>Nanoscale</i> , 2018 , 10, 11241-11280	7.7	177
87	Nanostructured conducting polymers for energy applications: towards a sustainable platform. <i>Nanoscale</i> , 2016 , 8, 6921-47	7.7	173
86	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
85	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
84	A Peptide-Based Mechano-sensitive, Proteolytically Stable Hydrogel with Remarkable Antibacterial Properties. <i>Langmuir</i> , 2016 , 32, 1836-45	4	78
83	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
82	Visible-light active conducting polymer nanostructures with superior photocatalytic activity. <i>Scientific Reports</i> , 2015 , 5, 18002	4.9	75
81	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
80	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, 17314-9	4.9	68
79	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
78	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
77	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
76	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
75	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
74	PEDOT nanostructures synthesized in hexagonal mesophases. <i>New Journal of Chemistry</i> , 2014 , 38, 1106-1115	3.15	62

73	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
72	Highly active poly(3-hexylthiophene) nanostructures for photocatalysis under solar light. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 23-32	21.8	55
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	Protein conformation driven biomimetic synthesis of semiconductor nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 699-706		43
62	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
61	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
60	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
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	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
57	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
56	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

55	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
54	Conducting polymer nanofibers with controlled diameters synthesized in hexagonal mesophases. <i>New Journal of Chemistry</i> , 2015 , 39, 8311-8320	3.6	28
53	Probing of ascorbic acid by CdS/dendrimer nanocomposites: a spectroscopic investigation. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 1573-82	4.4	28
52	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
51	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
50	Enhanced solar hydrogen generation using Cu ₂ O/Cu ₂ O integrated polypyrrole nanofibers as heterostructured catalysts. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 6159-6173	6.7	22
49	Silver as solid-state electron mediator in MoS ₂ /Ag ₂ O/AgVO ₃ Z-Scheme heterostructures for photocatalytic H ₂ generation. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154527	5.7	21
48	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
47	Synthesis and Spectral Studies of CdTe-Dendrimer Conjugates. <i>Nanoscale Research Letters</i> , 2009 , 4, 937-941	3.41	20
46	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
45	Swollen hexagonal liquid crystals as smart nanoreactors: implementation in materials chemistry for energy applications. <i>Nanoscale</i> , 2018 , 10, 5793-5819	7.7	19
44	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
43	Recent advancements of copper oxide based nanomaterials for supercapacitor applications. <i>Journal of Energy Storage</i> , 2021 , 34, 101995	7.8	19
42	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
41	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
40	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
39	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
38	Conducting Polymer-Based Nanohybrids for Fuel Cell Application. <i>Polymers</i> , 2020 , 12,	4.5	15

37	Polymer based nanoformulation of methylglyoxal as an antimicrobial agent: efficacy against resistant bacteria. <i>RSC Advances</i> , 2014 , 4, 23251-23261	3.7	14
36	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
35	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
34	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
33	Physico-Chemical Aspects of Quantum Dot Vasodialator Interaction: Implications in Nanodiagnostics. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 9774-9782	3.8	13
32	Quantum dot based probing of mannitol: an implication in clinical diagnostics. <i>Analytica Chimica Acta</i> , 2010 , 675, 165-9	6.6	12
31	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
30	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
29	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
28	Biological activity of dendrimer/methylglyoxal complexes for improved therapeutic efficacy against malignant cells. <i>RSC Advances</i> , 2016 , 6, 6631-6642	3.7	8
27	Radiation-induced synthesis of self-organized assemblies of functionalized inorganic/organic hybrid nanocomposites. <i>RSC Advances</i> , 2013 , 3, 14406	3.7	6
26	Polymeric ruthenium precursor as a photoactivated antimicrobial agent. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123788	12.8	6
25	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
24	Recent Advances in Nanostructured Electrocatalysts for Low-temperature Direct Alcohol Fuel Cells 2017 , 347-371		4
23	Conjugated polymer nanostructures displaying highly photoactivated antimicrobial and antibiofilm functionalities. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 4390-4399	7.3	4
22	Conducting Polymers Nanostructures for Solar-Light Harvesting 2018 , 227-252		3
21	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
20	Conjugated Polymer-Based Nanocomposites as Photocatalysts 2021 , 267-296		2

19	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
18	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
17	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
16	Nanoscale Characterization 2019 , 65-93		1
15	Conjugated Polymer Nanostructures for Photocatalysis 233-265		1
14	Fundamentals of Conjugated Polymer Nanostructures 2021 , 1-42		1
13	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
12	Conducting Polymers Nanowires with Carbon Nanotubes or Graphene-Based Nanocomposites for Supercapacitors Applications 2021 , 445-497		0
11	Bandgap Engineering of Heterostructures for Visible Light-Driven Water Splitting. <i>Green Chemistry and Sustainable Technology</i> , 2022 , 701-722	1.1	0
10	Research Frontiers in Solar Light Harvesting 2018 , 1-26		
9	Chemical Synthesis of Conducting Polymers Nanostructures 2021 , 43-83		
8	Conjugated Polymer Nanostructures for Electrochemical Capacitor and Lithium-Ion Battery Applications 2021 , 357-400		
7	Template-Free Synthesis of Nanostructured Conjugated Polymer Films 2021 , 85-115		
6	Use of High Energy Radiation for Synthesis and Kinetic Study of Conjugated Polymers 2021 , 117-157		
5	Conjugated Polymer Nanostructures for Catalysts Support in Fuel Cells Application 2021 , 207-232		
4	Surface functionalized hybrid nanomaterials: Implications in biosensing and therapeutics 2016 , 1-32		
3	Bismuth-based heterostructured photocatalysts 2021 , 283-325		
2	Conjugated Polymer Nanostructures: Characterization 2021 , 159-203		

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