Bhaskar R Sathe

List of Publications by Year
in descending order

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80 papers	3,348 citations	236833 25 h-index	149623 56 g-index
81 all docs	81 docs citations	81 times ranked	4978 citing authors

#	Article	IF	Citations
1	Enhanced Hydrazine Oxidation on Histidine-Functionalized Graphene-Based Electrocatalysts. Energy & Fuels, 2022, 36, 4799-4806.	2.5	4
2	Design and Synthesis of Lead(II)-Based Electrocatalysts for Oxygen Evolution Reaction. Inorganic Chemistry, 2022, 61, 7579-7589.	1.9	2
3	Recent Progress on Carbon Quantum Dots Based Photocatalysis. Frontiers in Chemistry, 2022, 10, 881495.	1.8	34
4	Highly efficient metal-free ethylenediamine-functionalized fullerene (EDA@C₆₀) electrocatalytic system for enhanced hydrogen generation from hydrazine hydrate. New Journal of Chemistry, 2022, 46, 14004-14009.	1.4	10
5	Electrochemical determination of semicarbazide on cobalt oxide nanoparticles: Implication towards environmental monitoring. Journal of Industrial and Engineering Chemistry, 2021, 93, 259-266.	2.9	17
6	Electrocatalytic and catalytic CO2 hydrogenation on ZnO/g-C3N4 hybrid nanoelectrodes. Applied Surface Science, 2021, 538, 148120.	3.1	28
7	Amine-functionalized multi-walled carbon nanotubes (EDA-MWCNTs) for electrochemical water splitting reactions. New Journal of Chemistry, 2021, 45, 3932-3939.	1.4	17
8	Engineering two-dimensional materials for high-performance supercapacitor devices. , 2021, , 359-387.		6
9	Metal-free graphene-based nanoelectrodes for the electrochemical determination of ascorbic acid (AA) andp-nitrophenol (p-NP): implication towards biosensing and environmental monitoring. New Journal of Chemistry, 2021, 45, 4666-4674.	1.4	13
10	Supercapacitors based on two-dimensional metal oxides, hydroxides, and its graphene-based hybrids. , 2021, , 193-215.		1
11	CZTS/MoS2-rGO Heterostructures: An efficient and highly stable electrocatalyst for enhanced hydrogen generation reactions. Journal of Electroanalytical Chemistry, 2021, 882, 114983.	1.9	13
12	Reflux temperature-dependent zinc cobaltite nanostructures for asymmetric supercapacitors. Journal of Materials Science: Materials in Electronics, 2021, 32, 5859-5869.	1.1	7
13	Heteroatom (N, O, and S)-Based Biomolecule-Functionalized Graphene Oxide: A Bifunctional Electrocatalyst for Enhancing Hydrazine Oxidation and Oxygen Reduction Reactions. Energy & Fuels, 2021, 35, 6823-6834.	2.5	34
14	Editorial: Smart Materials for Energy Conversion and Sensor Based Technologies. Frontiers in Materials, 2021, 8, .	1.2	0
15	Highly efficient manganese oxide decorated graphitic carbon nitrite electrocatalyst for reduction of CO2 to formate. Catalysis Today, 2021, 370, 104-113.	2.2	12
16	Enhanced Electrochemical NO₂^{â˜'}Oxidation Reactions on Biomolecule Functionalised Graphene Oxide. ChemistrySelect, 2021, 6, 6050-6055.	0.7	4
17	Bi2O3@Bi nanoparticles for ultrasensitive electrochemical determination of thiourea: monitoring towards environmental pollutants. Electrochimica Acta, 2021, 394, 139111.	2.6	14
18	Electrocatalytic Ethanol Oxidation on Cobaltâ€“Bismuth Nanoparticle-Decorated Reduced Graphene Oxide (Coâ€“Bi@rGO): Reaction Pathway Investigation toward Direct Ethanol Fuel Cells. Journal of Physical Chemistry C, 2021, 125, 2345-2356.	1.5	34

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19	Enhanced electrocatalytic H₂S splitting on a multiwalled carbon nanotubes-graphene oxide nanocomposite. New Journal of Chemistry, 2021, 45, 20266-20271.	1.4	6
20	Synthesis of Metalâ€Free Nanoporous Carbon with Fewâ€Layer Graphene Electrocatalyst for Electrochemical NO₂^{â^'} Oxidation. ChemistrySelect, 2021, 6, 9847-9852.	0.7	3
21	Urea Electro-Oxidation Catalyzed by an Efficient and Highly Stable Niâ€“Bi Bimetallic Nanoparticles. ACS Applied Energy Materials, 2021, 4, 13172-13182.	2.5	21
22	Graphene Oxide Decorated with Rh Nanospheres for Electrocatalytic Water Splitting. ACS Applied Nano Materials, 2020, 3, 12288-12296.	2.4	25
23	Thermally Driven High-Rate Intercalated Pseudocapacitance of Flower-like Architecture of Ultrathin Few Layered Î´-MnO₂ Nanosheets on Carbon Nano-Onions. ACS Applied Energy Materials, 2020, 3, 11398-11409.	2.5	16
24	Cobalt oxide nanoparticle-decorated reduced graphene oxide (Co₃O₄â€“rGO): active and sustainable nanoelectrodes for water oxidation reaction. New Journal of Chemistry, 2020, 44, 15776-15784.	1.4	51
25	Bi2O3 Nanoparticles Decorated Carbon Nanotube: An Effective Nanoelectrode for Enhanced Electrocatalytic 4-Nitrophenol Reduction. Frontiers in Chemistry, 2020, 8, 325.	1.8	24
26	Enhanced electrocatalytic activity towards urea oxidation on Ni nanoparticle decorated graphene oxide nanocomposite. Electrochimica Acta, 2020, 349, 136386.	2.6	69
27	BismuthâEOxideâEDecorated Graphene Oxide Hybrids for Catalytic and Electrocatalytic Reduction of CO₂. Chemistry - A European Journal, 2020, 26, 8801-8809.	1.7	21
28	<scp>l</scp>-Lysine-Functionalized Reduced Graphene Oxide as a Highly Efficient Electrocatalyst for Enhanced Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 5524-5533.	3.2	39
29	Enhanced Overall Water-Splitting Performance: Oleylamine-Functionalized GO/Cu₂ZnSnS₄Composite as a Nobel Metal-Free and NonPrecious Electrocatalyst. ACS Omega, 2019, 4, 18969-18977.	1.6	19
30	Ni/NiO@rGO as an efficient bifunctional electrocatalyst for enhanced overall water splitting reactions. International Journal of Hydrogen Energy, 2019, 44, 27001-27009.	3.8	62
31	Superior humidity sensor and photodetector of mesoporous ZnO nanosheets at room temperature. Sensors and Actuators B: Chemical, 2019, 293, 83-92.	4.0	84
32	CZTS Decorated on Graphene Oxide as an Efficient Electrocatalyst for High-Performance Hydrogen Evolution Reaction. ACS Omega, 2019, 4, 7650-7657.	1.6	38
33	Copper fluorapatite assisted synthesis of new 1,2,3-triazoles bearing a benzothiazolyl moiety and their antibacterial and anticancer activities. New Journal of Chemistry, 2019, 43, 7663-7673.	1.4	18
34	Enhanced oxygen evolution reaction on amine functionalized graphene oxide in alkaline medium. RSC Advances, 2019, 9, 6444-6451.	1.7	24
35	Facile synthesis of highly porous CuO nanoplates (NPs) for ultrasensitive and highly selective nitrogen dioxide/nitrite sensing. RSC Advances, 2019, 9, 5742-5747.	1.7	19
36	Overall noble metal free Ni and Fe doped Cu2ZnSnS4 (CZTS) bifunctional electrocatalytic systems for enhanced water splitting reactions. International Journal of Hydrogen Energy, 2019, 44, 8144-8155.	3.8	40

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37	Heterostructural CuOâ€“ZnO Nanocomposites: A Highly Selective Chemical and Electrochemical NO₂ Sensor. ACS Omega, 2019, 4, 20129-20141.	1.6	50
38	Graphene oxide-based electrochemical activation of ethionamide towards enhanced biological activity. RSC Advances, 2019, 9, 35463-35472.	1.7	8
39	Ultrasensitive and bifunctional ZnO nanoplates for an oxidative electrochemical and chemical sensor of NO₂: implications towards environmental monitoring of the nitrite reaction. RSC Advances, 2018, 8, 11177-11185.	1.7	26
40	Electrochemical Studies of Antiâ€HIV Drug Emtricitabine: Oxidative Determination and Improved Antimicrobial Activity. ChemElectroChem, 2018, 5, 3926-3931.	1.7	11
41	Biomass-Mediated Synthesis of Cu-Doped TiO₂ Nanoparticles for Improved-Performance Lithium-Ion Batteries. ACS Omega, 2018, 3, 13676-13684.	1.6	25
42	Tyramine Functionalized Graphene: Metalâ€Free Electrochemical Nonâ€Enzymatic Biosensing of Hydrogen Peroxide. ChemElectroChem, 2018, 5, 3191-3197.	1.7	30
43	Bioactive ceramic composite material stability, characterization, and bonding to bone. , 2018, , 273-296.		9
44	Enhanced electrocatalytic hydrogen generation from water via cobalt-doped Cu₂ZnSnS₄ nanoparticles. RSC Advances, 2018, 8, 20341-20346.	1.7	33
45	A scalable and facile synthesis of carbon nanospheres as a metal free electrocatalyst for oxidation of l -ascorbic acid: Alternate fuel for direct oxidation fuel cells. Journal of Electroanalytical Chemistry, 2017, 799, 609-616.	1.9	18
46	Visible light motivated synthesis of polyhydroquinoline derivatives using CdS nanowires. Research on Chemical Intermediates, 2017, 43, 3237-3249.	1.3	8
47	Enhanced Hydrogen Evolution Reactions on Nanostructured Cu 2 ZnSnS 4 (CZTS) Electrocatalyst. Applied Surface Science, 2017, 412, 475-481.	3.1	31
48	Binder free 2D aligned efficient MnO₂ micro flowers as stable electrodes for symmetric supercapacitor applications. RSC Advances, 2017, 7, 36886-36894.	1.7	21
49	Silver nanoparticles sensitized C60(Ag@C60) as efficient electrocatalysts for hydrazine oxidation: Implication for hydrogen generation reaction. Applied Surface Science, 2017, 396, 939-944.	3.1	52
50	Silica nanosphereâ€“graphene oxide (SiO2â€“GO) hybrid catalyzed facile synthesis of functionalized quinoxaline derivatives. Research on Chemical Intermediates, 2017, 43, 829-841.	1.3	17
51	Temperature dependent fabrication of cost-effective and nontoxic Cu2ZnSnS4 (CZTS) thin films for solar cell. AIP Conference Proceedings, 2016, , .	0.3	3
52	Pd nanoparticles: an efficient catalyst for the solvent-free synthesis of 2,3-disubstituted-4-thiazolidinones. Research on Chemical Intermediates, 2016, 42, 6695-6703.	1.3	19
53	Methanol Electro-Oxidation on Nanostructured Rhodium Network. Energy and Environment Focus, 2015, 4, 196-200.	0.3	7
54	Cobaltâ€Embedded Nitrogenâ€Rich Carbon Nanotubes Efficiently Catalyze Hydrogen Evolution Reaction at All pH Values. Angewandte Chemie - International Edition, 2014, 53, 4372-4376.	7.2	857

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55	Metal-free B-doped graphene with efficient electrocatalytic activity for hydrogen evolution reaction. Catalysis Science and Technology, 2014, 4, 2023-2030.	2.1	268
56	Efficient oxygen evolution reaction catalyzed by low-density Ni-doped Co3O4 nanomaterials derived from metal-embedded graphitic C3N4. Chemical Communications, 2013, 49, 7522.	2.2	220
57	Rhodium nanoparticleâ€“carbon nanosphere hybrid material as an electrochemical hydrogen sensor. RSC Advances, 2013, 3, 5361.	1.7	22
58	High aspect ratio rhodium nanostructures for tunable electrocatalytic performance. Physical Chemistry Chemical Physics, 2013, 15, 7866.	1.3	12
59	Significant Enhancement of Formic Acid Oxidation Using Rhodium Nanostructures. Journal of Nanoscience and Nanotechnology, 2012, 12, 8994-8998.	0.9	11
60	Capping induced morphology evolution of Rh nanostructures and their electrocatalytic studies. RSC Advances, 2012, 2, 3735.	1.7	8
61	A facile approach for shape selective synthesis of rhodium nanostructures and conductivity studies. AIP Advances, 2012, 2, 042122.	0.6	4
62	A novel catalyst-free synthesis of vertically aligned silicon nanowireâ€“carbon nanotube heterojunction arrays for high performance electron field emitters. Chemical Communications, 2011, 47, 7785.	2.2	18
63	Enhanced electrocatalytic performance of interconnected Rh nano-chains towards formic acid oxidation. Energy and Environmental Science, 2011, 4, 1029.	15.6	44
64	Effect of Fe3O4 on morphology of Feâ€“SnO2 hyperbranched heterostructures. Chemical Physics Letters, 2010, 493, 121-125.	1.2	8
65	Tunable optical features from self-organized rhodium nanostructures. Applied Physics Letters, 2010, 96, 233102.	1.5	5
66	Fabrication of In-doped SnO₂nanowire arrays and its field emission investigations. Journal of Experimental Nanoscience, 2010, 5, 527-535.	1.3	12
67	Synthesis of Rhâ€“carbon nanotube based heterostructures and their enhanced field emission characteristics. Chemical Communications, 2010, 46, 5671.	2.2	13
68	Field emission investigation of single Fe-doped SnO2 wire. Solid State Sciences, 2009, 11, 1114-1117.	1.5	11
69	Preparation and Characterization of Rhodium Nanostructures through the Evolution of Microgalvanic Cells and Their Enhanced Electrocatalytic Activity for Formaldehyde Oxidation. Journal of Physical Chemistry C, 2009, 113, 9616-9622.	1.5	28
70	Synthesis of Sb-Doped SnO₂ Nanowires and Hyperbranched Structures. Science of Advanced Materials, 2009, 1, 38-43.	0.1	4
71	Near-complete phase transfer of single-wall carbon nanotubes by covalent functionalization. Journal of Chemical Sciences, 2008, 120, 599-606.	0.7	10
72	High-purity synthesis of scrolled mats of multi-walled carbon nanotubes using temperature modulation. Carbon, 2008, 46, 567-576.	5.4	17

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73	Selective cis-dihydroxylation of olefins using recyclable homogeneous molybdenum acetylide catalyst. Journal of Molecular Catalysis A, 2008, 285, 111-119.	4.8	47
74	Enhanced field emission from hexagonal rhodium nanostructures. Applied Physics Letters, 2008, 92, 253106.	1.5	11
75	Electrochemical Sensing of Sulphur Dioxide: A Comparison Using Dodecanethiol and Citrate Capped Gold Nanoclusters. Journal of Nanoscience and Nanotechnology, 2008, 8, 3184-3190.	0.9	10
76	Template-Assisted Synthesis of Ruthenium Oxide Nanoneedles:â€‰ Electrical and Electrochemical Properties. Journal of Physical Chemistry C, 2007, 111, 16593-16600.	1.5	46
77	Surface-State-Mediated Electron Transfer at Nanostructured ZnO Multipod/Electrolyte Interfaces. Journal of Physical Chemistry C, 2007, 111, 13092-13102.	1.5	28
78	Quantized Double-Layer Charging of Rhodium2057(Tridecylamine)321 Clusters Using Differential Pulse and Cyclic Voltammetry. Advanced Materials, 2007, 19, 272-275.	11.1	13
79	Highly sensitive nanostructured platinum electrocatalysts for CO oxidation: Implications for CO sensing and fuel cell performance. Sensors and Actuators A: Physical, 2007, 138, 376-383.	2.0	31
80	Copper phthalocyanine films deposited by liquidâ€“liquid interface recrystallization technique (LLIRCT). Journal of Colloid and Interface Science, 2007, 315, 747-752.	5.0	14