

Prasanta Kumar Sahoo

List of Publications by Citations

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34
papers

677
citations

15
h-index

25
g-index

39
ext. papers

870
ext. citations

4.1
avg, IF

4.55
L-index

#	Paper	IF	Citations
34	In situ synthesis and properties of reduced graphene oxide/Bi nanocomposites: as an electroactive material for analysis of heavy metals. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 293-6	11.8	144
33	Freeze-Casting of Multifunctional Cellular 3D-Graphene/Ag Nanocomposites: Synergistically Affect Supercapacitor, Catalytic, and Antibacterial Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7475-7487	8.3	57
32	Ice-templated synthesis of multifunctional three dimensional graphene/noble metal nanocomposites and their mechanical, electrical, catalytic, and electromagnetic shielding properties. <i>Scientific Reports</i> , 2015 , 5, 17726	4.9	48
31	Interfacial polymerized RGO/MnFe ₂ O ₄ /polyaniline fibrous nanocomposite supported glassy carbon electrode for selective and ultrasensitive detection of nitrite. <i>Sensors and Actuators B: Chemical</i> , 2020 , 309, 127763	8.5	45
30	Incorporation of Carbon Quantum Dots for Improvement of Supercapacitor Performance of Nickel Sulfide. <i>ACS Omega</i> , 2018 , 3, 17936-17946	3.9	45
29	Facile synthesis of reduced graphene oxide/PtNi nanocatalysts: their magnetic and catalytic properties. <i>RSC Advances</i> , 2014 , 4, 48563-48571	3.7	44
28	Solvothermal synthesis of reduced graphene oxide/Au nanocomposite-modified electrode for the determination of inorganic mercury and electrochemical oxidation of toxic phenolic compounds. <i>Electrochimica Acta</i> , 2015 , 180, 1023-1032	6.7	33
27	Highly efficient and simultaneous catalytic reduction of multiple dyes using recyclable RGO/Co dendritic nanocomposites as catalyst for wastewater treatment. <i>RSC Advances</i> , 2016 , 6, 106723-106731	3.7	28
26	Electrochemical and SECM Investigation of MoS ₂ /GO and MoS ₂ /rGO Nanocomposite Materials for HER Electrocatalysis. <i>ACS Omega</i> , 2017 , 2, 7532-7545	3.9	27
25	Studies on the stability and kinetics of drug release of dexamethasone phosphate intercalated layered double hydroxides nano hybrids. <i>Materials Chemistry and Physics</i> , 2013 , 142, 106-112	4.4	22
24	Electrochemically deposited layered MnO ₂ films for improved supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 788, 175-183	4.1	20
23	Ice-templating synthesis of macroporous noble metal/3D-graphene nanocomposites: their fluorescence lifetimes and catalytic study. <i>New Journal of Chemistry</i> , 2017 , 41, 7861-7869	3.6	18
22	Tuning the electro-chemical properties by selectively substituting transition metals on carbon in Ni/Co oxide/carbon composite electrodes for supercapacitor devices. <i>New Journal of Chemistry</i> , 2017 , 41, 3562-3573	3.6	17
21	Synthesis of Nickel Ferrite Nanoparticles Supported on Graphene Nanosheets as Composite Electrodes for High Performance Supercapacitor. <i>ChemistrySelect</i> , 2019 , 4, 9952-9958	1.8	17
20	Gold Nano Particle and Reduced Graphene Oxide Composite Modified Carbon Paste Electrode for the Ultra Trace Detection of Arsenic (III). <i>Electroanalysis</i> , 2017 , 29, 1400-1409	3	15
19	Magnetic behavior of reduced graphene oxide/metal nanocomposites. <i>Journal of Applied Physics</i> , 2013 , 113, 17B525	2.5	15
18	Synthesis of CoO-Decorated Graphene Hollow Nanoballs for High-Performance Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40426-40432	9.5	13

17	Photocatalytic degradation of cyanide using polyurethane foam immobilized Fe-TCPP-S-TiO-rGO nano-composite. <i>Journal of Environmental Management</i> , 2021 , 297, 113312	7.9	10
16	Enriched Doping Level and Tuned Fiber Fractal Dimensions in Nonwoven Carbon-Doped Polyaniline for Efficient Solid-State Supercapacitors. <i>Energy Technology</i> , 2017 , 5, 253-266	3.5	9
15	Prussian Blue Nanocubes-SnO ₂ Quantum Dots-Reduced Graphene Oxide Ternary Nanocomposite: An Efficient Non-noble-metal Electrocatalyst for Non-enzymatic Detection of H ₂ O ₂ . <i>Electroanalysis</i> , 2020 , 32, 1763-1771	3	7
14	New Approach to Anchor Zinc Oxide in Polyvinylidene Fluoride and Their Dielectric Properties. <i>Advanced Science, Engineering and Medicine</i> , 2014 , 6, 166-172	0.6	6
13	Tailoring the performance of mechanically robust highly conducting Silver/3D graphene aerogels with superior electromagnetic shielding effectiveness. <i>Diamond and Related Materials</i> , 2020 , 109, 108043-5	3.5	6
12	2D-Layered Non-Precious Electrocatalysts for Hydrogen Evolution Reaction: Fundamentals to Applications. <i>Catalysts</i> , 2021 , 11, 689	4	6
11	Insight into the catalytic performance of HER catalysis of noble metal/3D-G nanocomposites. <i>Electrochimica Acta</i> , 2020 , 333, 135467	6.7	5
10	Role of graphene nanocomposite photocatalysts in photo-reduction of Cr (VI) for wastewater treatment. <i>Materials Today: Proceedings</i> , 2021 , 41, 324-328	1.4	4
9	A novel two-stage process for laser enrichment of sulphur isotopes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 194, 344-350	4.7	3
8	Enhancement of electrochemical properties of carbon solution doped bismuth ferrite for supercapacitor application. <i>Materials Today: Proceedings</i> , 2021 , 41, 165-171	1.4	3
7	Localize current burst in modified carbon nanotube/polyaniline composite fibers mat electrode miniaturized resistance and improved rate capability for solid-state supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 7562-7574	2.1	2
6	Synthesis and characterization of cobalt oxide (Co ₃ O ₄) nanoparticles. <i>Materials Today: Proceedings</i> , 2021 , 41, 269-271	1.4	2
5	Evaluation of N doped rGO-ZnO-CoPc(COOH) nanocomposite in cyanide degradation and its bactericidal activities. <i>Journal of Environmental Management</i> , 2022 , 302, 114022	7.9	1
4	Recent Advances on Pt-Free Electro-Catalysts for Dye-Sensitized Solar Cells. <i>Molecules</i> , 2021 , 26,	4.8	1
3	Self-assembled 3D graphene-based aerogel with Au nanoparticles as high-performance supercapacitor electrode. <i>Journal of Energy Storage</i> , 2021 , 43, 103157	7.8	1
2	Pd supported on 3D graphene aerogel as potential electrocatalyst for alkaline direct methanol fuel cells. <i>Materials Today: Proceedings</i> , 2021 , 41, 150-155	1.4	0
1	Preparation of ZnO layer for solar cell application. <i>Materials Today: Proceedings</i> , 2021 , 41, 161-164	1.4	0