

Devesh Kumar Avasthi

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

472
citations

933447

10
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

770
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO tetrapods and activated carbon based hybrid composite: Adsorbents for enhanced decontamination of hexavalent chromium from aqueous solution. <i>Chemical Engineering Journal</i> , 2019, 358, 540-551.	12.7	170
2	Purification/annealing of graphene with 100-MeV Ag ion irradiation. <i>Nanoscale Research Letters</i> , 2014, 9, 126.	5.7	46
3	Efficient oil removal from wastewater based on polymer coated superhydrophobic tetrapodal magnetic nanocomposite adsorbent. <i>Applied Materials Today</i> , 2019, 17, 130-141.	4.3	38
4	Enhanced photoelectrochemical response of plasmonic Au embedded BiVO ₄ /Fe ₂ O ₃ heterojunction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15039-15049.	2.8	34
5	Plasmonic layer enhanced photoelectrochemical response of Fe ₂ O ₃ photoanodes. <i>Journal of Power Sources</i> , 2016, 315, 152-160.	7.8	28
6	Ion beam-induced shaping of Ni nanoparticles embedded in a silica matrix: from spherical to prolate shape. <i>Nanoscale Research Letters</i> , 2011, 6, 155.	5.7	26
7	A study on the effect of low energy ion beam irradiation on Au/TiO ₂ system for its application in photoelectrochemical splitting of water. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 379, 255-261.	1.4	24
8	Robust water repellent ZnO nanorod array by Swift Heavy Ion Irradiation: Effect of Electronic Excitation Induced Local Chemical State Modification. <i>Scientific Reports</i> , 2017, 7, 3251.	3.3	23
9	MWCNTs and Cu ₂ O sensitized Ti Fe ₂ O ₃ photoanode for improved water splitting performance. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6049-6059.	7.1	20
10	Role of Coulomb blockade and spin-flip scattering in tunneling magnetoresistance of FeCo-Si-O nanogranular films. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	14
11	Formation of nanowires via single particle-triggered linear polymerization of solid-state aromatic molecules. <i>Nanoscale</i> , 2016, 8, 14925-14931.	5.6	10
12	Porphyrin Nanowire Bundles for Efficient Photoconductivity, Photoemission, and Generation of Singlet Oxygens toward Photodynamic Therapy. <i>ACS Applied Nano Materials</i> , 2020, 3, 6043-6053.	5.0	10
13	Microstructure, electrical, magnetic, and extraordinary Hall effect studies in Ni:SiO ₂ nanogranular films synthesized by atom beam sputtering. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	8
14	Remarkable effect of halogenation of aromatic compounds on efficiency of nanowire formation through polymerization/crosslinking by high-energy single particle irradiation. <i>Radiation Physics and Chemistry</i> , 2018, 142, 100-106.	2.8	6
15	Improved photoelectrochemical properties of TiO ₂ -graphene nanocomposites: Effect of defect induced visible light absorption and graphene conducting channel for carrier transport. <i>Applied Surface Science Advances</i> , 2022, 11, 100274.	6.8	6
16	Fabrication of superhydrophobic polyurethane sponge coated with oil sorbent derived from textile sludge for oily wastewater remediation. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 18, 100675.	2.9	4
17	Synthesis and modification of ZnO thin films by energetic ion beams. <i>Radiation Effects and Defects in Solids</i> , 2021, 176, 145-166.	1.2	3
18	Thin ZnO layer for RRAM Applications. , 2020, , .		2