

Hemraj M Yadav

List of Publications by Year in descending order

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59
papers

2,331
citations

159585

30
h-index

214800

47
g-index

61
all docs

61
docs citations

61
times ranked

3077
citing authors

#	ARTICLE	IF	CITATIONS
1	Developments in photocatalytic antibacterial activity of nano TiO ₂ : A review. Korean Journal of Chemical Engineering, 2016, 33, 1989-1998.	2.7	200
2	Preparation and characterization of copper-doped anatase TiO ₂ nanoparticles with visible light photocatalytic antibacterial activity. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 280, 32-38.	3.9	169
3	Solvothermal synthesis of anatase TiO ₂ -graphene oxide nanocomposites and their photocatalytic performance. Journal of Alloys and Compounds, 2016, 688, 123-129.	5.5	130
4	Structural refinement and photocatalytic activity of Fe-doped anatase TiO ₂ nanoparticles. Applied Surface Science, 2012, 263, 536-545.	6.1	108
5	Synthesis and visible light photocatalytic antibacterial activity of nickel-doped TiO ₂ nanoparticles against Gram-positive and Gram-negative bacteria. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 294, 130-136.	3.9	96
6	Titania-supported silver nanoparticles: An efficient and reusable catalyst for reduction of 4-nitrophenol. Applied Surface Science, 2013, 273, 676-683.	6.1	64
7	Synthesis, characterization and biocompatibility of chitosan functionalized superparamagnetic nanoparticles for heat activated curing of cancer cells. Dalton Transactions, 2014, 43, 17343-17351.	3.3	59
8	Nanosheet-like ZnCo ₂ O ₄ @nitrogen doped graphene oxide/polyaniline composite for supercapacitor application: Effect of polyaniline incorporation. Journal of Alloys and Compounds, 2020, 830, 154734.	5.5	57
9	Effect of deposition parameters on spray pyrolysis synthesized CuO nanoparticle thin films for higher supercapacitor performance. Journal of Electroanalytical Chemistry, 2019, 850, 113433.	3.8	56
10	Enhanced photocatalytic activity of a mesoporous TiO ₂ aerogel decorated onto three-dimensional carbon foam. Journal of Molecular Liquids, 2019, 277, 424-433.	4.9	56
11	Fabrication of manganese oxide@nitrogen doped graphene oxide/polypyrrole (MnO ₂ @NGO/PPy) hybrid composite electrodes for energy storage devices. Journal of Materials Research and Technology, 2019, 8, 4227-4238.	5.8	54
12	Using chemical bath deposition to create nanosheet-like CuO electrodes for supercapacitor applications. Colloids and Surfaces B: Biointerfaces, 2019, 181, 1004-1011.	5.0	54
13	Novel approach to synthesize NiCo ₂ S ₄ composite for high-performance supercapacitor application with different molar ratio of Ni and Co. Scientific Reports, 2019, 9, 13717.	3.3	53
14	Flower-like NiCo ₂ O ₄ /NiCo ₂ S ₄ electrodes on Ni mesh for higher supercapacitor applications. Ceramics International, 2019, 45, 17192-17203.	4.8	52
15	Stable Triple-Cation (Cs ⁺ MA ⁺ FA ⁺) Perovskite Powder Formation under Ambient Conditions for Hysteresis-Free High-Efficiency Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 29941-29949.	8.0	50
16	Facile synthesis of CuO/NiO/nitrogen doped rGO by ultrasonication for high performance supercapacitors. Journal of Alloys and Compounds, 2020, 847, 156411.	5.5	50
17	Porous materials of nitrogen doped graphene oxide@SnO ₂ electrode for capable supercapacitor application. Scientific Reports, 2019, 9, 12622.	3.3	48
18	Ni(OH) ₂ -decorated nitrogen doped MWCNT nanosheets as an efficient electrode for high performance supercapacitors. Scientific Reports, 2019, 9, 6034.	3.3	48

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19	Multi-modal MR imaging and magnetic hyperthermia study of Gd doped Fe ₃ O ₄ nanoparticles for integrative cancer therapy. RSC Advances, 2016, 6, 94967-94975.	3.6	46
20	Rapid and size-controlled biosynthesis of cytocompatible selenium nanoparticles by Azadirachta indica leaves extract for antibacterial activity. Materials Letters, 2020, 264, 127353.	2.6	45
21	Highly porous, hierarchical microglobules of Co ₃ O ₄ embedded N-doped carbon matrix for high performance asymmetric supercapacitors. Applied Surface Science, 2020, 529, 147147.	6.1	44
22	Physically stimulated nanotheranostics for next generation cancer therapy: Focus on magnetic and light stimulations. Applied Physics Reviews, 2019, 6, .	11.3	43
23	High-performance symmetric supercapacitor; nanoflower-like NiCo ₂ O ₄ //NiCo ₂ O ₄ thin films synthesized by simple and highly stable chemical method. Journal of Molecular Liquids, 2020, 299, 112119.	4.9	43
24	Ultrasonically driven green synthesis of palladium nanoparticles by Coleus amboinicus for catalytic reduction and Suzuki-Miyaura reaction. Colloids and Surfaces B: Biointerfaces, 2020, 192, 111026.	5.0	42
25	Effect of Mn doping on the chemical synthesis of interconnected nanoflakes-like CoS thin films for high performance supercapacitor applications. Ceramics International, 2018, 44, 23102-23108.	4.8	41
26	Controlled synthesis of SnO ₂ @NiCo ₂ O ₄ /nitrogen doped multiwalled carbon nanotube hybrids as an active electrode material for supercapacitors. Journal of Alloys and Compounds, 2019, 794, 186-194.	5.5	40
27	Core shell nanostructured of Co ₃ O ₄ @RuO ₂ assembled on nitrogen-doped graphene sheets electrode for an efficient supercapacitor application. Journal of Alloys and Compounds, 2021, 877, 160297.	5.5	39
28	Enhanced photocatalytic inactivation of bacteria on Fe-containing TiO ₂ nanoparticles under fluorescent light. Journal of Materials Science: Materials in Medicine, 2016, 27, 57.	3.6	37
29	Enhanced visible light photocatalytic activity of Cr ³⁺ -doped anatase TiO ₂ nanoparticles synthesized by sol-gel method. Journal of Materials Science: Materials in Electronics, 2016, 27, 526-534.	2.2	36
30	Functional TiO ₂ nanocoral architecture for light-activated cancer chemotherapy. Journal of Materials Chemistry B, 2017, 5, 1461-1470.	5.8	33
31	Facile one pot synthesis of core shell Ag@SiO ₂ nanoparticles for catalytic and antimicrobial activity. Materials Letters, 2016, 167, 179-182.	2.6	30
32	Nanorods to hexagonal nanosheets of CuO-doped manganese oxide nanostructures for higher electrochemical supercapacitor performance. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110500.	5.0	30
33	Impact of polypyrrole incorporation on nickel oxide@multi walled carbon nanotube composite for application in supercapacitors. Polymer Testing, 2020, 89, 106727.	4.8	29
34	Fabrication of NiCo ₂ S ₄ accumulated on metal organic framework nanostructured with multiwalled carbon nanotubes composite material for supercapacitor application. Ceramics International, 2022, 48, 29102-29110.	4.8	28
35	MOFs-Graphene Composites Synthesis and Application for Electrochemical Supercapacitor: A Review. Polymers, 2022, 14, 511.	4.5	27
36	Non-hydrolytic sol-gel route to synthesize TiO ₂ nanoparticles under ambient condition for highly efficient and stable perovskite solar cells. Solar Energy, 2019, 185, 307-314.	6.1	25

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37	Ultrasonication-mediated nitrogen-doped multiwalled carbon nanotubes involving carboxy methylcellulose composite for solid-state supercapacitor applications. <i>Scientific Reports</i> , 2021, 11, 9918.	3.3	24
38	Cellulose Nanofiber Composite with Bimetallic Zeolite Imidazole Framework for Electrochemical Supercapacitors. <i>Nanomaterials</i> , 2021, 11, 395.	4.1	22
39	Silica nano supra-assembly for the targeted delivery of therapeutic cargo to overcome chemoresistance in cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110571.	5.0	21
40	Novel and efficient hybrid supercapacitor of chemically synthesized quaternary 3D nanoflower-like NiCuCo ₂ S ₄ electrode. <i>Ceramics International</i> , 2021, 47, 15639-15647.	4.8	19
41	Synthesis of 3D nanoflower-like mesoporous NiCo ₂ O ₄ N-doped CNTs nanocomposite for solid-state hybrid supercapacitor; efficient material for the positive electrode. <i>Ceramics International</i> , 2021, 47, 31650-31665.	4.8	19
42	Directly grown of NiCo ₂ S ₄ nanoparticles on a conducting substrate towards the high-performance counter electrode in dye-sensitized solar cell: A combined theoretical and experimental study. <i>Solar Energy Materials and Solar Cells</i> , 2021, 225, 111064.	6.2	18
43	Electrochemically Synthesized Nanoflowers to Nanosphere-Like NiCuSe ₂ Thin Films for Efficient Supercapacitor Application. <i>Metals</i> , 2020, 10, 1698.	2.3	17
44	Enhanced Hemolytic Biocompatibility of Hydroxyapatite by Chromium (Cr ³⁺) Doping in Hydroxyapatite Nanoparticles Synthesized by Solution Combustion Method. <i>Journal of the Korean Ceramic Society</i> , 2017, 54, 158-166.	2.3	17
45	Fabrication of nanostructured SnO ₂ @Co ₃ O ₄ /nitrogen doped graphene oxide composite for symmetric and asymmetric storage devices. <i>Journal of Materials Research and Technology</i> , 2020, 9, 4183-4193.	5.8	16
46	Nickel-Graphene Nanoplatelet Deposited on Carbon Fiber as Binder-Free Electrode for Electrochemical Supercapacitor Application. <i>Polymers</i> , 2020, 12, 1666.	4.5	15
47	Fabrication of SiO ₂ /TiO ₂ double layer thin films with self-cleaning and photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10082-10088.	2.2	13
48	Photoelectrochemical performance of dye and semiconductor sensitization on 1-D hollow hexagonal ZnO rods: A comparative study. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3015-3024.	2.5	12
49	Solvothermal growth of 3D flower-like CoS@FTO as high-performance counter electrode for dye-sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6929-6935.	2.2	11
50	Facile Synthesis of Triphenylamine Based Hyperbranched Polymer for Organic Field Effect Transistors. <i>Nanomaterials</i> , 2019, 9, 1787.	4.1	11
51	Self-cleaning performance of sol-gel-derived TiO ₂ /SiO ₂ double-layer thin films. <i>Journal of Coatings Technology Research</i> , 2016, 13, 905-910.	2.5	10
52	Multifunctional Magnetic Nanostructures for Cancer Hyperthermia Therapy. , 2016, , 589-612.		6
53	Preparation of cobalt substituted zinc aluminium chromite: photocatalytic properties and Suzuki cross coupling reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7274-7286.	2.2	5
54	Ultrasonically dispersed multi-composite strategy of NiCo ₂ S ₄ /Halloysite nanotubes/carbon: An efficient solid-state hybrid supercapacitor and hydrogen evolution reaction material. <i>Ceramics International</i> , 2022, 48, 25020-25033.	4.8	4

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55	Impact of Annealing Temperature on the Morphological, Optical and Photoelectrochemical Properties of Cauliflower-like CdSe _{0.6} Te _{0.4} Photoelectrodes; Enhanced Solar Cell Performance. International Journal of Molecular Sciences, 2021, 22, 11610.	4.1	3
56	Electrochemical determination of hydrazine using facilely synthesized Sn-decorated γ -Fe ₂ O ₃ nanoparticles modified electrode. Journal of Materials Science: Materials in Electronics, 2022, 33, 13593-13603.	2.2	3
57	Hybrid Nanostructures in a Diagnostic and Comprehensive Approach to Combat Cancer. , 2019, , 159-172.		1
58	Studies on Cancer Cell Cytotoxicity, Antimicrobial Activity of Sol-Gel Synthesized Willemite for Biomedical Applications. Current Nanoscience, 2017, 13, .	1.2	1
59	Multilayer thin film deposition of Pd/Ag alloy as an application for hydrogen sensing. , 2017, , .		0