

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	MOFs-Graphene Composites Synthesis and Application for Electrochemical Supercapacitor: A Review. <i>Polymers</i> , 2022, 14, 511.	4.5	27
2	Fabrication of NiCo ₂ S ₄ accumulated on metal organic framework nanostructured with multiwalled carbon nanotubes composite material for supercapacitor application. <i>Ceramics International</i> , 2022, 48, 29102-29110.	4.8	28
3	Electrochemical determination of hydrazine using facilely synthesized Sn-decorated γ -Fe ₂ O ₃ nanoparticles modified electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 13593-13603.	2.2	3
4	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
5	Cellulose Nanofiber Composite with Bimetallic Zeolite Imidazole Framework for Electrochemical Supercapacitors. <i>Nanomaterials</i> , 2021, 11, 395.	4.1	22
6	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
7	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
8	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
9	Core shell nanostructured of Co ₃ O ₄ @RuO ₂ assembled on nitrogen-doped graphene sheets electrode for an efficient supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160297.	5.5	39
10	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
11	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. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11610.	4.1	3
12	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
13	High-performance symmetric supercapacitor; nanoflower-like NiCo ₂ O ₄ //NiCo ₂ O ₄ thin films synthesized by simple and highly stable chemical method. <i>Journal of Molecular Liquids</i> , 2020, 299, 112119.	4.9	43
14	Impact of polypyrrole incorporation on nickel oxide@multi walled carbon nanotube composite for application in supercapacitors. <i>Polymer Testing</i> , 2020, 89, 106727.	4.8	29
15	Facile synthesis of CuO/NiO/nitrogen doped rGO by ultrasonication for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156411.	5.5	50
16	Nickel-Graphene Nanoplatelet Deposited on Carbon Fiber as Binder-Free Electrode for Electrochemical Supercapacitor Application. <i>Polymers</i> , 2020, 12, 1666.	4.5	15
17	Electrochemically Synthesized Nanoflowers to Nanosphere-Like NiCuSe ₂ Thin Films for Efficient Supercapacitor Application. <i>Metals</i> , 2020, 10, 1698.	2.3	17
18	Nanosheet-like ZnCo ₂ O ₄ @nitrogen doped graphene oxide/polyaniline composite for supercapacitor application: Effect of polyaniline incorporation. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154734.	5.5	57

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19	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
20	Highly porous, hierarchical microglobules of Co ₃ O ₄ embedded N-doped carbon matrix for high performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2020, 529, 147147.	6.1	44
21	Rapid and size-controlled biosynthesis of cytocompatible selenium nanoparticles by <i>Azadirachta indica</i> leaves extract for antibacterial activity. <i>Materials Letters</i> , 2020, 264, 127353.	2.6	45
22	Ultrasonically driven green synthesis of palladium nanoparticles by <i>Coleus amboinicus</i> for catalytic reduction and Suzuki-Miyaura reaction. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111026.	5.0	42
23	Fabrication of manganese oxide@nitrogen doped graphene oxide/polypyrrole (MnO ₂ @NGO/PPy) hybrid composite electrodes for energy storage devices. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4227-4238.	5.8	54
24	Stable Triple-Cation (Cs ⁺ MA ⁺ FA ⁺) Perovskite Powder Formation under Ambient Conditions for Hysteresis-Free High-Efficiency Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29941-29949.	8.0	50
25	Using chemical bath deposition to create nanosheet-like CuO electrodes for supercapacitor applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 1004-1011.	5.0	54
26	Physically stimulated nanotheranostics for next generation cancer therapy: Focus on magnetic and light stimulations. <i>Applied Physics Reviews</i> , 2019, 6, .	11.3	43
27	Effect of deposition parameters on spray pyrolysis synthesized CuO nanoparticle thin films for higher supercapacitor performance. <i>Journal of Electroanalytical Chemistry</i> , 2019, 850, 113433.	3.8	56
28	Porous materials of nitrogen doped graphene oxide@SnO ₂ electrode for capable supercapacitor application. <i>Scientific Reports</i> , 2019, 9, 12622.	3.3	48
29	Novel approach to synthesize NiCo ₂ S ₄ composite for high-performance supercapacitor application with different molar ratio of Ni and Co. <i>Scientific Reports</i> , 2019, 9, 13717.	3.3	53
30	Nanorods to hexagonal nanosheets of CuO-doped manganese oxide nanostructures for higher electrochemical supercapacitor performance. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 184, 110500.	5.0	30
31	Flower-like NiCo ₂ O ₄ /NiCo ₂ S ₄ electrodes on Ni mesh for higher supercapacitor applications. <i>Ceramics International</i> , 2019, 45, 17192-17203.	4.8	52
32	Ni(OH) ₂ -decorated nitrogen doped MWCNT nanosheets as an efficient electrode for high performance supercapacitors. <i>Scientific Reports</i> , 2019, 9, 6034.	3.3	48
33	Controlled synthesis of SnO ₂ @NiCo ₂ O ₄ /nitrogen doped multiwalled carbon nanotube hybrids as an active electrode material for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 794, 186-194.	5.5	40
34	Non-hydrolytic sol-gel route to synthesize TiO ₂ nanoparticles under ambient condition for highly efficient and stable perovskite solar cells. <i>Solar Energy</i> , 2019, 185, 307-314.	6.1	25
35	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
36	Facile Synthesis of Triphenylamine Based Hyperbranched Polymer for Organic Field Effect Transistors. <i>Nanomaterials</i> , 2019, 9, 1787.	4.1	11

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37	Hybrid Nanostructures in a Diagnostic and Comprehensive Approach to Combat Cancer. , 2019, , 159-172.		1
38	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
39	Preparation of cobalt substituted zinc aluminium chromite: photocatalytic properties and Suzuki cross coupling reaction. Journal of Materials Science: Materials in Electronics, 2018, 29, 7274-7286.	2.2	5
40	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
41	Photoelectrochemical performance of dye and semiconductor sensitization on 1-D hollow hexagonal ZnO rods: A comparative study. Journal of Solid State Electrochemistry, 2018, 22, 3015-3024.	2.5	12
42	Functional TiO ₂ nanocoral architecture for light-activated cancer chemotherapy. Journal of Materials Chemistry B, 2017, 5, 1461-1470.	5.8	33
43	Multilayer thin film deposition of Pd/Ag alloy as an application for hydrogen sensing. , 2017, , .		0
44	Enhanced Hemolytic Biocompatibility of Hydroxyapatite by Chromium (Cr ³⁺) Doping in Hydroxyapatite Nanoparticles Synthesized by Solution Combustion Method. Journal of the Korean Ceramic Society, 2017, 54, 158-166.	2.3	17
45	Studies on Cancer Cell Cytotoxicity, Antimicrobial Activity of Sol-Gel Synthesized Willemite for Biomedical Applications. Current Nanoscience, 2017, 13, .	1.2	1
46	Multifunctional Magnetic Nanostructures for Cancer Hyperthermia Therapy. , 2016, , 589-612.		6
47	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
48	Self-cleaning performance of sol-gel-derived TiO ₂ /SiO ₂ double-layer thin films. Journal of Coatings Technology Research, 2016, 13, 905-910.	2.5	10
49	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
50	Developments in photocatalytic antibacterial activity of nano TiO ₂ : A review. Korean Journal of Chemical Engineering, 2016, 33, 1989-1998.	2.7	200
51	Fabrication of SiO ₂ /TiO ₂ double layer thin films with self-cleaning and photocatalytic properties. Journal of Materials Science: Materials in Electronics, 2016, 27, 10082-10088.	2.2	13
52	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
53	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
54	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

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55	Preparation and characterization of copper-doped anatase TiO ₂ nanoparticles with visible light photocatalytic antibacterial activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 280, 32-38.	3.9	169
56	Synthesis, characterization and biocompatibility of chitosan functionalized superparamagnetic nanoparticles for heat activated curing of cancer cells. <i>Dalton Transactions</i> , 2014, 43, 17343-17351.	3.3	59
57	Synthesis and visible light photocatalytic antibacterial activity of nickel-doped TiO ₂ nanoparticles against Gram-positive and Gram-negative bacteria. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 294, 130-136.	3.9	96
58	Titania-supported silver nanoparticles: An efficient and reusable catalyst for reduction of 4-nitrophenol. <i>Applied Surface Science</i> , 2013, 273, 676-683.	6.1	64
59	Structural refinement and photocatalytic activity of Fe-doped anatase TiO ₂ nanoparticles. <i>Applied Surface Science</i> , 2012, 263, 536-545.	6.1	108