

Irum Shaheen

List of Publications by Year in descending order

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papers

997
citations

430874

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45
all docs

45
docs citations

45
times ranked

549
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable synthesis of organic framework-derived ZnO nanoparticles for fabrication of supercapacitor electrode. Environmental Technology (United Kingdom), 2022, 43, 605-616.	2.2	24
2	Functionalization of Mn_2O_3 / PdO / ZnO electrocatalyst using organic template with accentuated electrochemical potential toward water splitting. International Journal of Energy Research, 2022, 46, 452-463.	4.5	11
3	Sustainable hydrothermal synthesis of cobalt-nickel nanomaterial for supercapacitor using green stabilizing agents. International Journal of Energy Research, 2022, 46, 4599-4608.	4.5	6
4	Biomimetic ZrO_2 @ PdO nanocomposites: fabrication, characterization, and water splitting potential exploration. International Journal of Energy Research, 2022, 46, 8516-8526.	4.5	10
5	Electron beam deposited (Cu_2S) GO thin film as active electrode for supercapacitor and enhanced photocatalyst for water remediation. International Journal of Energy Research, 2022, 46, 9371-9388.	4.5	30
6	Glycerol-mediated synthesis of copper-doped zinc sulfide with ultrathin nanoflakes for flexible energy electrode materials. Journal of Alloys and Compounds, 2022, 919, 165701.	5.5	18
7	Electrochemical trapping of meta-stable NiO consolidated ZnO/PdO by biomimetic provenance for the employment of clean energy generation. Materials Science in Semiconductor Processing, 2022, 150, 106867.	4.0	10
8	Biomimetic $[\text{MoO}_3@\text{ZnO}]$ semiconducting nanocomposites: Chemo-proportional fabrication, characterization and energy storage potential exploration. Renewable Energy, 2021, 167, 568-579.	8.9	39
9	Phyto-mediated semiconducting n-type electrode nanomaterial: structural, compositional, and supercapacitor investigations. Ionics, 2021, 27, 833-843.	2.4	4
10	Modified sol gel synthesis of MoO_3 NPs using organic template: synthesis, characterization and electrochemical investigations. Journal of Sol-Gel Science and Technology, 2021, 97, 178-190.	2.4	12
11	Phyto-inspired Cu/Bi oxide-based nanocomposites: synthesis, characterization, and energy relevant investigation. RSC Advances, 2021, 11, 30510-30519.	3.6	9
12	Identification and quantification of phyto-constituents of wild Moraceae-Ficus palmata Forssk and its implication as synthesizing fuel for biomimetic nanomaterials. Chemical Papers, 2021, 75, 2181-2190.	2.2	2
13	Facile synthesis of $\text{ZnO}@\text{CoMoO}_4$ nanocomposite using bio-organic fuel for energy storage application. Journal of Materials Science: Materials in Electronics, 2021, 32, 8460-8474.	2.2	5
14	Recent developments in carbon nanotubes-based perovskite solar cells with boosted efficiency and stability. Zeitschrift Fur Physikalische Chemie, 2021, 235, 1539-1572.	2.8	18
15	Semi-conducting Ni/Zn nano-hybrids TM driven efficient electro-catalytic performance: fabrication, characterization, and electrochemical features TM elucidation. Green Chemistry Letters and Reviews, 2021, 14, 286-301.	4.7	18
16	Electro-catalyst $[\text{ZrO}_2/\text{ZnO}/\text{PdO}]$ -NPs green functionalization: Fabrication, characterization and water splitting potential assessment. International Journal of Hydrogen Energy, 2021, 46, 19347-19362.	7.1	36
17	Synthesis of facile $\text{ZnO} : \text{NiO}@\text{PdO}@\text{Pd}$ nanomaterial by organic fuel: Environmentally benign electrode material for energy storage. International Journal of Energy Research, 2021, 45, 16284-16293.	4.5	1
18	Preparation of Organo-Stabilized Mn_3O_4 Nanostructures as an Electro-Catalyst for Clean Energy Generation. Journal of Electronic Materials, 2021, 50, 5150-5160.	2.2	5

#	ARTICLE	IF	CITATIONS
19	Facile ZnO-based nanomaterial and its fabrication as a supercapacitor electrode: synthesis, characterization and electrochemical studies. RSC Advances, 2021, 11, 23374-23384.	3.6	50
20	Chromatographic identification of green capping agents extracted from <i>Nasturtium officinale</i> (Brassicaceae) leaves for the synthesis of MoO ₃ nanoparticles. Journal of Separation Science, 2020, 43, 598-605.	2.5	31
21	Biomimetic detoxifier <i>Prunus cerasifera</i> Ehrh. silver nanoparticles: innate green bullets for morbidic pathogens and persistent pollutants. Environmental Science and Pollution Research, 2020, 27, 9669-9685.	5.3	29
22	Evaluation of electrochemical properties of organic template assisted PdO incorporated NiO for H ₂ /O ₂ evolution. Microchemical Journal, 2020, 158, 105282.	4.5	2
23	Green synthesis of ZnO-Co ₃ O ₄ nanocomposite using facile foliar fuel and investigation of its electrochemical behaviour for supercapacitors. New Journal of Chemistry, 2020, 44, 18281-18292.	2.8	46
24	Bio Framework-Derived Facile MoO ₃ -NiO-PdO-Pd Nanomaterial for Detoxification of Organic Pollutants. International Journal of Nanomedicine, 2020, Volume 15, 5591-5602.	6.7	5
25	Phyto-inspired and scalable approach for the synthesis of PdO-Mn ₂ O ₃ : a nano-material for application in water splitting electro-catalysis. RSC Advances, 2020, 10, 29961-29974.	3.6	15
26	Ecospheric Decontamination Attained via Green Nanobiotechnological NiO-Based Nanocatalyst Derived from Nature's Biofactories. International Journal of Nanomedicine, 2020, Volume 15, 8357-8367.	6.7	7
27	Synthesis of binary metal oxide-doped Co ₃ O ₄ nanoparticles by organic template and investigation of its structural, optical and electrochemical properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 10323-10333.	2.2	6
28	Evaluation of electrochemical properties for water splitting by NiO nano-cubes synthesized using <i>Olea ferruginea</i> Royle. Sustainable Energy Technologies and Assessments, 2020, 40, 100753.	2.7	16
29	Organic template-based ZnO embedded Mn ₃ O ₄ nanoparticles: synthesis and evaluation of their electrochemical properties towards clean energy generation. RSC Advances, 2020, 10, 9854-9867.	3.6	21
30	Organic template-assisted green synthesis of CoMoO ₄ nanomaterials for the investigation of energy storage properties. RSC Advances, 2020, 10, 8115-8129.	3.6	52
31	Effect of NiO on organic framework functionalized ZnO nanoparticles for energy storage application. International Journal of Energy Research, 2020, 44, 5259-5271.	4.5	29
32	Functionalization of MoO ₃ /NiMoO ₄ nanocomposite using organic template for energy storage application. Journal of Energy Storage, 2020, 29, 101309.	8.1	38
33	Structural, optical and electrochemical studies of organo-templated wet synthesis of cubic shaped nickel oxide nanoparticles. Optik, 2020, 205, 164241.	2.9	26
34	Effects of bioactive compounds on the morphology and surface chemistry of MoO ₃ /ZnMoO ₄ nanocomposite for supercapacitor. Journal of Materials Science, 2020, 55, 7743-7759.	3.7	21
35	Green synthesis of doped Co ₃ O ₄ nanocatalysts using organic template for fast azo dye degradation from aqueous environment. Journal of Chemical Technology and Biotechnology, 2020, 95, 2898-2910.	3.2	9
36	Synthesis and analysis of ZnO-CoMoO ₄ incorporated organic compounds for efficient degradation of azo dye pollutants under dark ambient conditions. Applied Organometallic Chemistry, 2020, 34, e5733.	3.5	6

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37	Adsorption and sugarcane-bagasse-derived activated carbon-based mitigation of 1-[2-(2-chloroethoxy)phenyl]sulfonyl-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) urea-contaminated soils. <i>Open Chemistry</i> , 2020, 18, 1433-1443.	1.9	6
38	Bioelectrochemical systems: Sustainable bio-energy powerhouses. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111576.	10.1	92
39	In situ synthesis and deposition of un-doped and doped magnesium sulfide thin films by green technique. <i>Optik</i> , 2019, 182, 739-744.	2.9	12
40	Analysis of dopant concentration effect on optical and morphological properties of PVD coated Cu-doped Ni ₃ S ₂ thin films. <i>Optik</i> , 2019, 187, 152-163.	2.9	30
41	Synthesis and physiognomic study of copper sulfide doped cobalt sulfide. <i>Materials Research Express</i> , 2019, 6, 046408.	1.6	5
42	Optical and morphological properties of environmentally benign Cu-Tin sulphide thin films grown by physical vapor deposition technique. <i>Materials Research Express</i> , 2019, 6, 036406.	1.6	10
43	Evaluating the fate of agrochemical through adsorption and desorption studies of chlorfluazuron in selected agricultural soils. <i>Journal of King Saud University - Science</i> , 2019, 31, 612-617.	3.5	5
44	Augmented photocatalytic, antibacterial and antifungal activity of prunosynthetic silver nanoparticles. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 127-137.	2.8	78
45	Phytosynthetic Ag doped ZnO nanoparticles: Semiconducting green remediators. <i>Open Chemistry</i> , 2018, 16, 556-570.	1.9	92