

Mohan Reddy Pallavolu

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

735
citations

516710

16
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

455
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior energy&power performance of N&doped carbon nano&ions&based asymmetric and symmetric supercapacitor devices. International Journal of Energy Research, 2022, 46, 1234-1249.	4.5	23
2	Urea-assisted hydrothermal synthesis of MnMoO4/MnCO3 hybrid electrochemical electrode and fabrication of high-performance asymmetric supercapacitor. Journal of Materials Science and Technology, 2022, 96, 332-344.	10.7	32
3	In-situ design of porous vanadium nitride@carbon nanobelts: A promising material for high-performance asymmetric supercapacitors. Applied Surface Science, 2022, 575, 151734.	6.1	31
4	Facile synthesis of efficient construction of tungsten disulfide/iron cobaltite nanocomposite grown on nickel foam as a battery-type energy material for electrochemical supercapacitors with superior performance. Journal of Colloid and Interface Science, 2022, 609, 434-446.	9.4	69
5	Facile construction and controllable design of CoTiO3@Co3O4/N CNO hybrid heterojunction nanocomposite electrode for high-performance supercapacitors. Electrochimica Acta, 2022, 407, 139868.	5.2	18
6	Effectively constructed by the interior and interface coexisting design of cobalt&doped <sc> NiFe ₂ S ₄ </sc> nanosheets for high&performance supercapacitors. International Journal of Energy Research, 2022, 46, 9358-9370.	4.5	6
7	A novel hybridized needle-like Co3O4/N-CNO composite for superior energy storage asymmetric supercapacitors. Journal of Alloys and Compounds, 2022, 908, 164447.	5.5	16
8	A rational design of MnO2/CuO/r-GO hybrid and biomass-derived activated carbon for asymmetric supercapacitors. Journal of Energy Storage, 2022, 50, 104625.	8.1	14
9	Significance of rapid thermal annealing and its ramp rate effect on the properties of monoclinic CTS thin films. , 2022, 166, 207234.		1
10	Design and construction of hierarchical MnFe2Ce4@MnNiCe4 nanosheets on Ni foam as an advanced electrode for battery-type supercapacitor applications. Journal of Energy Storage, 2022, 51, 104542.	8.1	23
11	Pseudocapacitive Performance of Freestanding Ni₃V₂O₈ Nanosheets for High Energy and Power Density Asymmetric Supercapacitors. ACS Applied Energy Materials, 2022, 5, 5561-5578.	5.1	21
12	Capsule&shaped calcium and cobalt&doped <sc> ZnO </sc> electrodes for high electrochemical supercapacitor performance. International Journal of Energy Research, 2022, 46, 14334-14345.	4.5	4
13	Multiple structural defects in poor crystalline nickel&doped tungsten disulfide nanorods remarkably enhance supercapacitive performance. International Journal of Energy Research, 2022, 46, 14227-14239.	4.5	23
14	Self-Supported Co3O4@Mo-Co3O4 Needle-like Nanosheet Heterostructured Architectures of Battery-Type Electrodes for High-Performance Asymmetric Supercapacitors. Nanomaterials, 2022, 12, 2330.	4.1	42
15	Fabrication of monoclinic-Cu2SnS3 thin-film solar cell and its photovoltaic device performance. Optical Materials, 2021, 111, 110668.	3.6	10
16	Morphological improvement of CH3NH3PbI3 films using blended solvents for perovskite solar cells. Korean Journal of Chemical Engineering, 2021, 38, 187-194.	2.7	8
17	Construction of Functionalized Carbon Nanofiber&g-C₃N₄ and TiO₂ Spheres as a Nanostructured Hybrid Electrode for High-Performance Supercapacitors. Energy & Fuels, 2021, 35, 1796-1809.	5.1	27
18	Photoelectrochemical water oxidation kinetics and antibacterial studies of one-dimensional SiC nanowires synthesized from industrial waste. Journal of Solid State Electrochemistry, 2021, 25, 2457-2469.	2.5	4

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19	Effects of Ni - substitution on structural, magnetic hyperthermia, photocatalytic and cytotoxicity study of MgFe ₂ O ₄ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 879, 160515.	5.5	41
20	Crafting nanoflower-built MnCo ₂ S ₄ anchored to Ni foam as a prominent energy conversion and energy storage electrode for high-performance supercapacitor applications. <i>Journal of Energy Storage</i> , 2021, 43, 103155.	8.1	22
21	Self-assembled and highly faceted growth of Mo and V doped ZnO nanoflowers for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161234.	5.5	49
22	Bioinspired tailoring of nanoarchitected nickel sulfide@nickel permeated carbon composite as highly durable and redox chemistry enabled battery-type electrode for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25208-25219.	10.3	32
23	Ni foam conductive substrate supported interwoven ZnCo ₂ S ₄ nanowires with highly enhanced performances for supercapacitors. <i>Journal of Energy Storage</i> , 2021, 44, 103417.	8.1	16
24	Development of indium (In) doped SnSe thin films for photovoltaic application. <i>Materials Letters</i> , 2020, 281, 128714.	2.6	7
25	Status review on the Cu ₂ SnSe ₃ (CTSe) thin films for photovoltaic applications. <i>Solar Energy</i> , 2020, 208, 1001-1030.	6.1	14
26	Effect of selenization temperature on the physical properties of Cu ₂ SnSe ₃ thin films. <i>Thin Solid Films</i> , 2020, 709, 138238.	1.8	4
27	Investigation on the performance of SnS solar cells grown by sputtering and effusion cell evaporation. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1066-1070.	2.7	6
28	Development of SnSe thin films through selenization of sputtered Sn-metal films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15980-15988.	2.2	16
29	Effect of sulfurization time on the performance of monoclinic Cu ₂ SnS ₃ solar cells. <i>Solar Energy</i> , 2019, 188, 209-217.	6.1	17
30	Review on Cu ₂ SnS ₃ , Cu ₃ SnS ₄ , and Cu ₄ SnS ₄ thin films and their photovoltaic performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 39-74.	5.8	68
31	Green and low-cost preparation of CIGSe thin film by a nanocrystals ink based spin-coating method. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 2110-2117.	2.7	8
32	Eco-friendly synthesis of SnSe nanoparticles: effect of reducing agents on the reactivity of a Se-precursor and phase formation of SnSe NPs. <i>New Journal of Chemistry</i> , 2018, 42, 4843-4853.	2.8	33
33	Synthesis of binary Cu-Se and In-Se nanoparticle inks using cherry blossom gum for CuInSe ₂ thin film solar cell applications. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 2430-2441.	2.7	8
34	Effect of sulfurization temperature on the phase purity of Cu ₂ SnS ₃ thin films deposited via high vacuum sulfurization. <i>Applied Surface Science</i> , 2018, 462, 641-648.	6.1	22