

# Mohan Reddy Pallavolu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1309465/publications.pdf>

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	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. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 434-446.	9.4	69
2	Review on Cu <sub>2</sub> SnS <sub>3</sub> , Cu <sub>3</sub> SnS <sub>4</sub> , and Cu <sub>4</sub> SnS <sub>4</sub> thin films and their photovoltaic performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 39-74.	5.8	68
3	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
4	Self-Supported Co <sub>3</sub> O <sub>4</sub> @Mo-Co <sub>3</sub> O <sub>4</sub> Needle-like Nanosheet Heterostructured Architectures of Battery-Type Electrodes for High-Performance Asymmetric Supercapacitors. <i>Nanomaterials</i> , 2022, 12, 2330.	4.1	42
5	Effects of Ni - substitution on structural, magnetic hyperthermia, photocatalytic and cytotoxicity study of MgFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 879, 160515.	5.5	41
6	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
7	Urea-assisted hydrothermal synthesis of MnMoO <sub>4</sub> /MnCO <sub>3</sub> hybrid electrochemical electrode and fabrication of high-performance asymmetric supercapacitor. <i>Journal of Materials Science and Technology</i> , 2022, 96, 332-344.	10.7	32
8	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
9	In-situ design of porous vanadium nitride@carbon nanobelts: A promising material for high-performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2022, 575, 151734.	6.1	31
10	Construction of Functionalized Carbon Nanofiber@“g-C <sub>3</sub> N <sub>4</sub> and TiO <sub>2</sub> Spheres as a Nanostructured Hybrid Electrode for High-Performance Supercapacitors. <i>Energy &amp; Fuels</i> , 2021, 35, 1796-1809.	5.1	27
11	Superior energy&power performance of N&epsilon;doped carbon nano&epsilon;ions&epsilon;based asymmetric and symmetric supercapacitor devices. <i>International Journal of Energy Research</i> , 2022, 46, 1234-1249.	4.5	23
12	Design and construction of hierarchical MnFe <sub>2</sub> Ce <sub>4</sub> @MnNiCe <sub>4</sub> nanosheets on Ni foam as an advanced electrode for battery-type supercapacitor applications. <i>Journal of Energy Storage</i> , 2022, 51, 104542.	8.1	23
13	Multiple structural defects in poor crystalline nickel&epsilon;doped tungsten disulfide nanorods remarkably enhance supercapacitive performance. <i>International Journal of Energy Research</i> , 2022, 46, 14227-14239.	4.5	23
14	Effect of sulfurization temperature on the phase purity of Cu <sub>2</sub> SnS <sub>3</sub> thin films deposited via high vacuum sulfurization. <i>Applied Surface Science</i> , 2018, 462, 641-648.	6.1	22
15	Crafting nanoflower-built MnCo <sub>2</sub> S <sub>4</sub> 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
16	Pseudocapacitive Performance of Freestanding Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> Nanosheets for High Energy and Power Density Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022, 5, 5561-5578.	5.1	21
17	Facile construction and controllable design of CoTiO <sub>3</sub> @Co <sub>3</sub> O <sub>4</sub> /N CNO hybrid heterojunction nanocomposite electrode for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2022, 407, 139868.	5.2	18
18	Effect of sulfurization time on the performance of monoclinic Cu <sub>2</sub> SnS <sub>3</sub> solar cells. <i>Solar Energy</i> , 2019, 188, 209-217.	6.1	17

#	ARTICLE	IF	CITATIONS
19	Development of SnSe thin films through selenization of sputtered Sn-metal films. Journal of Materials Science: Materials in Electronics, 2019, 30, 15980-15988.	2.2	16
20	Ni foam conductive substrate supported interwoven ZnCo <sub>2</sub> S <sub>4</sub> nanowires with highly enhanced performances for supercapacitors. Journal of Energy Storage, 2021, 44, 103417.	8.1	16
21	A novel hybridized needle-like Co <sub>3</sub> O <sub>4</sub> /N-CNO composite for superior energy storage asymmetric supercapacitors. Journal of Alloys and Compounds, 2022, 908, 164447.	5.5	16
22	Status review on the Cu <sub>2</sub> SnSe <sub>3</sub> (CTSe) thin films for photovoltaic applications. Solar Energy, 2020, 208, 1001-1030.	6.1	14
23	A rational design of MnO <sub>2</sub> /CuO/r-GO hybrid and biomass-derived activated carbon for asymmetric supercapacitors. Journal of Energy Storage, 2022, 50, 104625.	8.1	14
24	Fabrication of monoclinic-Cu <sub>2</sub> SnS <sub>3</sub> thin-film solar cell and its photovoltaic device performance. Optical Materials, 2021, 111, 110668.	3.6	10
25	Synthesis of binary Cu-Se and In-Se nanoparticle inks using cherry blossom gum for CuInSe <sub>2</sub> thin film solar cell applications. Korean Journal of Chemical Engineering, 2018, 35, 2430-2441.	2.7	8
26	Green and low-cost preparation of CIGSe thin film by a nanocrystals ink based spin-coating method. Korean Journal of Chemical Engineering, 2019, 36, 2110-2117.	2.7	8
27	Morphological improvement of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> films using blended solvents for perovskite solar cells. Korean Journal of Chemical Engineering, 2021, 38, 187-194.	2.7	8
28	Development of indium (In) doped SnSe thin films for photovoltaic application. Materials Letters, 2020, 281, 128714.	2.6	7
29	Investigation on the performance of SnS solar cells grown by sputtering and effusion cell evaporation. Korean Journal of Chemical Engineering, 2020, 37, 1066-1070.	2.7	6
30	Effectively constructed by the interior and interface coexisting design of cobalt-doped NiFe <sub>2</sub> S <sub>4</sub> nanosheets for high-performance supercapacitors. International Journal of Energy Research, 2022, 46, 9358-9370.	4.5	6
31	Effect of selenization temperature on the physical properties of Cu <sub>2</sub> SnSe <sub>3</sub> thin films. Thin Solid Films, 2020, 709, 138238.	1.8	4
32	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
33	Capsule-shaped calcium and cobalt-doped ZnO electrodes for high electrochemical supercapacitor performance. International Journal of Energy Research, 2022, 46, 14334-14345.	4.5	4
34	Significance of rapid thermal annealing and its ramp rate effect on the properties of monoclinic CTS thin films. , 2022, 166, 207234.		1