

# Sunkara Srinivasa Rao

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,484  
citations

293460

24  
h-index

371746

37  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1856  
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.	5.0	69
2	Effectively constructed by the interior and interface coexisting design of cobalt-doped $\text{NiFe}_2\text{S}_4$ nanosheets for high-performance supercapacitors. <i>International Journal of Energy Research</i> , 2022, 46, 9358-9370.	2.2	6
3	Multiple structural defects in poor crystalline nickel-doped tungsten disulfide nanorods remarkably enhance supercapacitive performance. <i>International Journal of Energy Research</i> , 2022, 46, 14227-14239.	2.2	23
4	Facile Synthesis of Coral Reef-Like $\text{ZnO}/\text{CoS}_2$ Nanostructure on Nickel Foam as an Advanced Electrode Material for High-Performance Supercapacitors. <i>Energies</i> , 2021, 14, 4925.	1.6	7
5	Facile synthesis of nanoparticles anchored on honeycomb-like $\text{MnCo}_2\text{S}_4$ nanostructures as a binder-free electroactive material for supercapacitors. <i>Journal of Energy Storage</i> , 2020, 27, 101159.	3.9	23
6	Hydrothermal synthesis of layered $\text{CoS}/\text{WS}_2$ nanocomposite as a potential electrode for high-performance supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16290-16298.	1.1	2
7	One-pot facile synthesis of nanorice-like structured $\text{CuS}/\text{WS}_2$ as an advanced electroactive material for high-performance supercapacitors. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	9
8	Facile synthesis of $\text{FeS}_2/\text{PVP}$ composite as high-performance electrodes for supercapacitors. <i>Journal of Energy Storage</i> , 2020, 28, 101216.	3.9	22
9	Synthesis of CNTs on $\text{ZnO}/\text{NiS}$ composite as an advanced electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2020, 28, 101199.	3.9	24
10	Hierarchical nanospheres of $\text{NiCoS}/\text{NF}$ for high-performance supercapacitors. <i>Nano Structures Nano Objects</i> , 2019, 19, 100366.	1.9	6
11	A cabbage leaf like nanostructure of a $\text{NiS}/\text{ZnS}$ composite on Ni foam with excellent electrochemical performance for supercapacitors. <i>Dalton Transactions</i> , 2019, 48, 578-586.	1.6	31
12	Facile synthesis of $\text{ZnWO}_4/\text{WS}_2$ cauliflower-like structures for supercapacitors with enhanced electrochemical performance. <i>Journal of Electroanalytical Chemistry</i> , 2019, 841, 86-93.	1.9	47
13	One-step hydrothermal synthesis of $\text{CuS}/\text{MnS}$ on Ni foam for high performance supercapacitor electrode material. <i>Electrochimica Acta</i> , 2019, 305, 467-473.	2.6	53
14	Hydrothermal synthesis and pseudocapacitive properties of morphology-tuned nickel sulfide (NiS) nanostructures. <i>New Journal of Chemistry</i> , 2018, 42, 2733-2742.	1.4	45
15	Solution processed metal-doped $\text{NiS}/\text{PEDOT:PSS}$ composite thin films as an efficient electrode for quantum-dot sensitized solar cells. <i>Materials Research Bulletin</i> , 2018, 102, 369-378.	2.7	7
16	Achieving copper sulfide leaf like nanostructure electrode for high performance supercapacitor and quantum-dot sensitized solar cells. <i>Applied Surface Science</i> , 2018, 435, 666-675.	3.1	44
17	Construction of novel nanocomposite $\text{ZnO}/\text{CoFe}_2\text{O}_4$ microspheres grown on nickel foam for high performance electrochemical supercapacitors. <i>Analytical Methods</i> , 2018, 10, 223-229.	1.3	23
18	Synthesis of nanostructured metal sulfides via a hydrothermal method and their use as an electrode material for supercapacitors. <i>New Journal of Chemistry</i> , 2018, 42, 19183-19192.	1.4	53

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19	A Novel Off-Grid Optimal Hybrid Energy System for Rural Electrification of Tanzania Using a Closed Loop Cooled Solar System. <i>Energies</i> , 2018, 11, 905.	1.6	20
20	Dice-Like Nanostructure of a CuS@PbS Composite for High-Performance Supercapacitor Electrode Applications. <i>Energies</i> , 2018, 11, 1624.	1.6	24
21	Development of Novel and Ultra-High-Performance Supercapacitor Based on a Four Layered Unique Structure. <i>Electronics (Switzerland)</i> , 2018, 7, 121.	1.8	10
22	One-Pot Hydrothermal Synthesis of Novel Cu-MnS with PVP Cabbage-Like Nanostructures for High-Performance Supercapacitors. <i>Energies</i> , 2018, 11, 1590.	1.6	34
23	Layer by layer approach to enhance capacitance using metal sulfides for supercapacitor applications. <i>Materials Letters</i> , 2018, 231, 64-67.	1.3	15
24	NiMoO <sub>4</sub> @NiWO <sub>4</sub> honeycombs as a high performance electrode material for supercapacitor applications. <i>Dalton Transactions</i> , 2018, 47, 9057-9063.	1.6	68
25	An innovative catalyst design as an efficient electro catalyst and its applications in quantum-dot sensitized solar cells and the oxygen reduction reaction for fuel cells. <i>New Journal of Chemistry</i> , 2017, 41, 2098-2111.	1.4	6
26	In situ synthesis of CuS nano platelets on nano wall networks of Ni foam and its application as an efficient counter electrode for quantum dot sensitized solar cells. <i>Organic Electronics</i> , 2017, 42, 115-122.	1.4	9
27	Fabrication of a snail shell-like structured MnO <sub>2</sub> @CoNiO <sub>2</sub> composite electrode for high performance supercapacitors. <i>RSC Advances</i> , 2017, 7, 12301-12308.	1.7	31
28	Carbon nanotube/metal-sulfide composite flexible electrodes for high-performance quantum dot-sensitized solar cells and supercapacitors. <i>Scientific Reports</i> , 2017, 7, 46519.	1.6	134
29	Improved photovoltaic performance of quantum dot-sensitized solar cells using multi-layered semiconductors with the effect of a ZnSe passivation layer. <i>New Journal of Chemistry</i> , 2017, 41, 5942-5949.	1.4	21
30	Influence of solvents in the preparation of cobalt sulfide for supercapacitors. <i>Royal Society Open Science</i> , 2017, 4, 170427.	1.1	22
31	A hydrothermal reaction combined with a post anion-exchange reaction of hierarchically nanostructured NiCo <sub>2</sub> S <sub>4</sub> for high-performance QDSSCs and supercapacitors. <i>New Journal of Chemistry</i> , 2017, 41, 10037-10047.	1.4	25
32	The influence of in situ deposition techniques on PbS seeded CdS/CdSe for enhancing the photovoltaic performance of quantum dot sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2016, 773, 27-38.	1.9	13
33	Investigation on novel CuS/NiS composite counter electrode for hindering charge recombination in quantum dot sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2016, 777, 123-132.	1.9	25
34	Densely packed zinc sulfide nanoparticles on TiO <sub>2</sub> for hindering electron recombination in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2016, 40, 9176-9186.	1.4	22
35	Well-dispersed NiS nanoparticles grown on a functionalized CoS nanosphere surface as a high performance counter electrode for quantum dot-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 29003-29019.	1.7	20
36	Reduced recombination with an optimized barrier layer on TiO <sub>2</sub> in PbS/CdS core shell quantum dot sensitized solar cells. <i>New Journal of Chemistry</i> , 2016, 40, 3423-3431.	1.4	23

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37	Enhancing the photovoltaic performance and stability of QDSSCs using surface reinforced Pt nanostructures with controllable morphology and superior electrocatalysis via cost-effective chemical bath deposition. Dalton Transactions, 2016, 45, 3450-3463.	1.6	25
38	The effect of manganese in a CdS/PbS colloidal quantum dot sensitized TiO <sub>2</sub> solar cell to enhance its efficiency. New Journal of Chemistry, 2015, 39, 4805-4813.	1.4	26
39	Time Varied Morphology Controllable Fabrication of NiS Nanosheets Structured Thin Film and its Application as a Counter Electrode for QDSSC. Journal of Physical Chemistry C, 2015, 119, 11419-11429.	1.5	35
40	A strategy to enhance the efficiency of dye-sensitized solar cells by the highly efficient TiO <sub>2</sub> /ZnS photoanode. Dalton Transactions, 2015, 44, 2447-2455.	1.6	30
41	Enhance the performance of quantum dot-sensitized solar cell by manganese-doped ZnS films as a passivation layer. Organic Electronics, 2015, 26, 200-207.	1.4	18
42	The synthesis and characterization of lead sulfide with cube-like structure as a counter electrode in the presence of urea using a hydrothermal method. New Journal of Chemistry, 2015, 39, 7379-7388.	1.4	24
43	Low-cost solution processed nano millet like structure CoS <sub>2</sub> film superior to pt as counter electrode for quantum dot sensitized solar cells. Electronic Materials Letters, 2015, 11, 485-493.	1.0	11
44	The effect of TiO <sub>2</sub> nanoflowers as a compact layer for CdS quantum-dot sensitized solar cells with improved performance. Dalton Transactions, 2015, 44, 12852-12862.	1.6	21
45	Exploring the effect of manganese in lead sulfide quantum dot sensitized solar cell to enhance the photovoltaic performance. RSC Advances, 2015, 5, 33136-33145.	1.7	20
46	Enhanced photovoltaic performance and morphological control of the PbS counter electrode grown on functionalized self-assembled nanocrystals for quantum-dot sensitized solar cells via cost-effective chemical bath deposition. Journal of Materials Chemistry C, 2015, 3, 10195-10206.	2.7	37
47	Facile chemical bath deposition of CuS nano peas like structure as a high efficient counter electrode for quantum-dot sensitized solar cells. Journal of Electroanalytical Chemistry, 2015, 739, 20-27.	1.9	48
48	Nickel doped cobalt sulfide as a high performance counter electrode for dye-sensitized solar cells. Applied Surface Science, 2015, 328, 78-85.	3.1	34
49	Highly efficient and stable quantum dot-sensitized solar cells based on a Mn-doped CuS counter electrode. RSC Advances, 2015, 5, 2963-2967.	1.7	32
50	Optimal-Temperature-Based Highly Efficient NiS Counter Electrode for Quantum-Dot-Sensitized Solar Cells. European Journal of Inorganic Chemistry, 2014, 2014, 4281-4286.	1.0	34
51	Cobalt sulfide thin film as an efficient counter electrode for dye-sensitized solar cells. Electrochimica Acta, 2014, 133, 174-179.	2.6	73