Chandu V V Muralee Gopi

List of Publications by Citations

78 papers	2,032 citations	28 h-index	41 g-index
82 ext. papers	2,511 ext. citations	5.1 avg, IF	5.63 L-index

#	Paper	IF	Citations
78	Wearable superhigh energy density supercapacitors using a hierarchical ternary metal selenide composite of CoNiSe2 microspheres decorated with CoFe2Se4 nanorods. *Journal of Materials Chemistry A*, **2018**, 6, 7439-7448	13	107
77	Carbon nanotube/metal-sulfide composite flexible electrodes for high-performance quantum dot-sensitized solar cells and supercapacitors. *Scientific Reports*, **2017**, 7, 46519	4.9	99
76	Co9S8-Ni3S2/CuMn2O4-NiMn2O4 and MnFe2O4-ZnFe2O4/graphene as binder-free cathode and anode materials for high energy density supercapacitors. *Chemical Engineering Journal*, **2020**, 381, 122640	14.7	84
75	Recent progress of advanced energy storage materials for flexible and wearable supercapacitor: From design and development to applications. *Journal of Energy Storage*, **2020**, 27, 101035	7.8	75
74	Improved photovoltaic performance and stability of quantum dot sensitized solar cells using Mn-ZnSe shell structure with enhanced light absorption and recombination control. *Nanoscale*, **2015**, 7, 12552-63	7.7	72
73	A strategy to improve the energy conversion efficiency and stability of quantum dot-sensitized solar cells using manganese-doped cadmium sulfide quantum dots. *Dalton Transactions*, **2015**, 44, 630-8	4.3	57
72	Selective integration of hierarchical nanostructured energy materials: an effective approach to boost the energy storage performance of flexible hybrid supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 6374-6386	13	56
71	A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques. *Electronics (Switzerland)*, **2020**, 9, 1161	2.6	54
70	ZnO nanorods decorated with metal sulfides as stable and efficient counter-electrode materials for high-efficiency quantum dot-sensitized solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 8161-8171	13	52
69	Solution processed low-cost and highly electrocatalytic composite NiS/PbS nanostructures as a novel counter-electrode material for high-performance quantum dot-sensitized solar cells with improved stability. *Journal of Materials Chemistry C*, **2015**, 3, 12514-12528	7.1	47
68	A review on porous carbon electrode material derived from hypercross-linked polymers for supercapacitor applications. *Journal of Energy Storage*, **2020**, 32, 101831	7.8	46
67	Principles of Magnetic Hyperthermia: A Focus on Using Multifunctional Hybrid Magnetic Nanoparticles. *Magnetochemistry*, **2019**, 5, 67	3.1	46
66	NiMoO@NiWO honeycombs as a high performance electrode material for supercapacitor applications. *Dalton Transactions*, **2018**, 47, 9057-9063	4.3	45
65	Hydrothermal synthesis of MoS2 and WS2 nanoparticles for high-performance supercapacitor applications. *New Journal of Chemistry*, **2018**, 42, 12357-12360	3.6	44
64	CNT@rGO@MoCuSe Composite as an Efficient Counter Electrode for Quantum Dot-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 10036-10042	9.5	42
63	Enhanced electrochemical capacitance of polyimidazole coated covellite CuS dispersed CNT composite materials for application in supercapacitors. *Dalton Transactions*, **2016**, 45, 12362-71	4.3	39
62	High performance of TiO2/CdS quantum dot sensitized solar cells with a Cu2nS passivation layer. *New Journal of Chemistry*, **2017**, 41, 1914-1917	3.6	38

61	Improving the performance of quantum dot sensitized solar cells through CdNiS quantum dots with reduced recombination and enhanced electron lifetime. *Dalton Transactions*, **2016**, 45, 8447-57	4.3	38
60	Facile one-step synthesis of a composite CuO/Co3O4 electrode material on Ni foam for flexible supercapacitor applications. *New Journal of Chemistry*, **2017**, 41, 5493-5497	3.6	35
59	Optimal-Temperature-Based Highly Efficient NiS Counter Electrode for Quantum-Dot-Sensitized Solar Cells. *European Journal of Inorganic Chemistry*, **2014**, 2014, 4281-4286	2.3	33
58	Recombination control in high-performance quantum dot-sensitized solar cells with a novel TiO2/ZnS/CdS/ZnS heterostructure. *Dalton Transactions*, **2016**, 45, 12914-23	4.3	32
57	Hierarchical nanostructured MnCo2O4@NiCo2O4 composites as innovative electrodes for supercapacitor applications. *New Journal of Chemistry*, **2018**, 42, 17190-17194	3.6	32
56	Facile synthesis of hierarchical flower-like NiMoO4-CoMoO4 nanosheet arrays on nickel foam as an efficient electrode for high rate hybrid supercapacitors. *Journal of Energy Storage*, **2020**, 30, 101550	7.8	31
55	Facile synthesis of a NiO/NiS hybrid and its use as an efficient electrode material for supercapacitor applications. *New Journal of Chemistry*, **2018**, 42, 5309-5313	3.6	31
54	Cost-effective and morphology controllable PVP based highly efficient CuS counter electrodes for high-efficiency quantum dot-sensitized solar cells. *Dalton Transactions*, **2015**, 44, 11340-51	4.3	31
53	One-step hydrothermal synthesis of CuS@MnS on Ni foam for high performance supercapacitor electrode material. *Electrochimica Acta*, **2019**, 305, 467-473	6.7	30
52	Highly efficient and stable quantum dot-sensitized solar cells based on a Mn-doped CuS counter electrode. *RSC Advances*, **2015**, 5, 2963-2967	3.7	29
51	Binder-free honeycomb-like FeMoO4 nanosheet arrays with dual properties of both battery-type and pseudocapacitive-type performances for supercapacitor applications. *Journal of Energy Storage* , **2020**, 27, 101055	7.8	29
50	Enhanced photovoltaic performance and time varied controllable growth of a CuS nanoplatelet structured thin film and its application as an efficient counter electrode for quantum dot-sensitized solar cells via a cost-effective chemical bath deposition. *Dalton Transactions*, **2015**, 44, 19330-43	4.3	28
49	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	3.8	27
48	A strategy to enhance the efficiency of dye-sensitized solar cells by the highly efficient TiO2/ZnS photoanode. *Dalton Transactions*, **2015**, 44, 2447-55	4.3	27
47	Tailoring the morphology followed by the electrochemical performance of NiMn-LDH nanosheet arrays through controlled Co-doping for high-energy and power asymmetric supercapacitors. *Dalton Transactions*, **2017**, 46, 12876-12883	4.3	26
46	Influence of annealing temperature in nitrogen doped porous carbon balls derived from hypercross-linked polymer of anthracene for supercapacitor applications. *Journal of Energy Storage*, **2020**, 28, 101196	7.8	26
45	Novel electrode material derived from porous polymeric organic framework of phloroglucinol and terephthaldehyde for symmetric supercapacitors. *Journal of Energy Storage*, **2020**, 28, 101283	7.8	25
44	Facile synthesis of hierarchical ZnMn2O4@ZnFe2O4 microspheres on nickel foam for high-performance supercapacitor applications. *New Journal of Chemistry*, **2018**, 42, 2964-2969	3.6	24

43	One-step facile hydrothermal synthesis of Fe2O3@LiCoO2 composite as excellent supercapacitor electrode materials. *Applied Surface Science*, **2018**, 435, 462-467	6.7	24
42	One-pot hydrothermal synthesis of tungsten diselenide/reduced graphene oxide composite as advanced electrode materials for supercapacitors. *Materials Letters*, **2018**, 223, 57-60	3.3	23
41	A hydrothermal reaction combined with a post anion-exchange reaction of hierarchically nanostructured NiCo2S4 for high-performance QDSSCs and supercapacitors. *New Journal of Chemistry*, **2017**, 41, 10037-10047	3.6	23
40	Microflower-like nickel sulfide-lead sulfide hierarchical composites as binder-free electrodes for high-performance supercapacitors. *Journal of Energy Storage*, **2019**, 26, 100925	7.8	21
39	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, 3450-63	4.3	21
38	One-step synthesis of solution processed time-dependent highly efficient and stable PbS counter electrodes for quantum dot-sensitized solar cells. *RSC Advances*, **2015**, 5, 107522-107532	3.7	20
37	Novel porous carbon material derived from hypercross-linked polymer of p-xylene for supercapacitors electrode. *Materials Letters*, **2020**, 263, 127222	3.3	20
36	Enhanced light harvesting and charge recombination control with TiO2/PbCdS/CdS based quantum dot-sensitized solar cells. *Journal of Electroanalytical Chemistry*, **2017**, 788, 131-136	4.1	18
35	Effect of the cobalt and zinc ratio on the preparation of zeolitic imidazole frameworks (ZIFs): synthesis, characterization and supercapacitor applications. *Dalton Transactions*, **2019**, 48, 14808-14819	4.3	18
34	The effect of TiO2 nanoflowers as a compact layer for CdS quantum-dot sensitized solar cells with improved performance. *Dalton Transactions*, **2015**, 44, 12852-62	4.3	18
33	Novel composite electrode material derived from hypercross-linked polymer of pyrene and polyaniline for symmetric supercapacitor. *Materials Letters*, **2019**, 257, 126732	3.3	18
32	Influence of solvents in the preparation of cobalt sulfide for supercapacitors. *Royal Society Open Science*, **2017**, 4, 170427	3.3	16
31	Facile synthesis of nanoparticles anchored on honeycomb-like MnCo2S4 nanostructures as a binder-free electroactive material for supercapacitors. *Journal of Energy Storage*, **2020**, 27, 101159	7.8	16
30	Binder-free hierarchical core-shell-like CoMn2O4@MnS nanowire arrays on nickel foam as a battery-type electrode material for high-performance supercapacitors. *Journal of Energy Storage*, **2021**, 36, 102377	7.8	15
29	Construction of novel nanocomposite ZnO@CoFe2O4 microspheres grown on nickel foam for high performance electrochemical supercapacitors. *Analytical Methods*, **2018**, 10, 223-229	3.2	14
28	Facile synthesis of flexible and binder-free dandelion flower-like CuNiO2 nanostructures as advanced electrode material for high-performance supercapacitors. *Journal of Energy Storage*, **2019**, 26, 100914	7.8	13
27	Enhanced performance of branched TiO2 nanorod based Mn-doped CdS and Mn-doped CdSe quantum dot-sensitized solar cell. *Journal of Applied Physics*, **2015**, 117, 163104	2.5	13
26	Solution-processed morphology-controllable nanosphere structured highly efficient and stable nickel sulfide counter electrodes for dye- and quantum dot-sensitized solar cells. *New Journal of Chemistry*, **2015**, 39, 9575-9585	3.6	13

25	One-pot synthesis of copper oxide□obalt oxide core□shell nanocactus-like heterostructures as binder-free electrode materials for high-rate hybrid supercapacitors. *Materials Today Energy*, **2019**, 14, 100358	7	13
24	Layer by layer approach to enhance capacitance using metal sulfides for supercapacitor applications. *Materials Letters*, **2018**, 231, 64-67	3.3	12
23	Effect of erbium on the structural, morphological, and optical properties of SnO2 thin films deposited by spray pyrolysis. *Optik*, **2020**, 202, 163596	2.5	11
22	A Novel Off-Grid Optimal Hybrid Energy System for Rural Electrification of Tanzania Using a Closed Loop Cooled Solar System. *Energies*, **2018**, 11, 905	3.1	10
21	Development of Novel and Ultra-High-Performance Supercapacitor Based on a Four Layered Unique Structure. *Electronics (Switzerland)*, **2018**, 7, 121	2.6	10
20	Controlled growth of a nanoplatelet-structured copper sulfide thin film as a highly efficient counter electrode for quantum dot-sensitized solar cells. *RSC Advances*, **2016**, 6, 45809-45818	3.7	10
19	Morphology-dependent binder-free CuNiO2electrode material with excellent electrochemical performances for supercapacitors. *Journal of Energy Storage*, **2019**, 26, 101037	7.8	9
18	Novel 13X Zeolite/PANI electrocatalyst for hydrogen and oxygen evolution reaction. *International Journal of Hydrogen Energy*, **2020**, 45, 28337-28349	6.7	9
17	Facile synthesis of unique diamond-like structured CdMn2O4@CdMn2O4 composite material for high performance supercapacitors. *Materials Letters*, **2018**, 210, 143-147	3.3	8
16	One-step facile synthesis of dense cloud-like tiny bundled nanoparticles of CuS nanostructures as an efficient electrode material for high-performance supercapacitors. *Journal of Energy Storage*, **2020**, 27, 101148	7.8	8
15	Metal sensing-carbon dots loaded TiO-nanocomposite for photocatalytic bacterial deactivation and application in aquaculture. *Scientific Reports*, **2020**, 10, 12883	4.9	8
14	Facile Fabrication of MnCoO/NiO Flower-Like Nanostructure Composites with Improved Energy Storage Capacity for High-Performance Supercapacitors. *Nanomaterials*, **2021**, 11,	5.4	8
13	Facile preparation of nanoflake MnNi2O4□bS nanoparticle composites on Ni foam as advanced electrode materials for supercapacitors. *New Journal of Chemistry*, **2018**, 42, 14157-14162	3.6	7
12	Efficient electron transfer and reduced recombination with Nd:YAG laser scribing for high-efficiency quantum dot-sensitized solar cells. *Optics and Laser Technology*, **2017**, 94, 290-295	4.2	6
11	Facile synthesis of highly efficient V2O5@NiCo2O4 as battery-type electrode material for high-performance electrochemical supercapacitors. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 13519-13524	2.1	5
10	Nanostructured Ni-doped CuS thin film as an efficient counter electrode material for high-performance quantum dot-sensitized solar cells. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 975-982	2.1	4
9	Novel porous carbon electrode derived from hypercross-linked polymer of poly(divinylbenzene-co-vinyl benzyl chloride) for supercapacitor applications. *Journal of Energy Storage*, **2021**, 43, 103287	7.8	4
8	Polyaniline□13X zeolite composite-supported platinum electrocatalysts for direct methanol fuel cell applications. *Polymer International*, **2019**, 68, 929-935	3.3	3

7	Template and binder free 1D cobalt nickel hydrogen phosphate electrode materials for supercapacitor application. *Journal of Industrial and Engineering Chemistry*, **2021**, 106, 328-328	6.3	3
6	Improved light-harvesting and suppressed charge recombination by introduction of a nanograss-like SnO interlayer for efficient CdS quantum dot sensitized solar cells.. *RSC Advances*, **2019**, 9, 38047-38054	3.7	3
5	One-pot facile synthesis of nanorice-like structured CuS@WS2 as an advanced electroactive material for high-performance supercapacitors. *SN Applied Sciences*, **2020**, 2, 1	1.8	2
4	Influence of temperature on the magnetic properties of Mn3O4 nanowires. *Current Chemistry Letters*, **2021**, 203-208	0.9	2
3	Design of Supercapacitor for Electric and Hybrid Vehicles : Supercapacitor **2018**,		2
2	Hydrothermal synthesis, crystal and electronic structure of a new hydrated borate CsKB4O5(OH)4·2H2O. *Materials Express*, **2020**, 10, 543-550	1.3	1
1	Designing nanosheet manganese cobaltate@manganese cobaltate nanosheet arrays as a battery-type electrode material towards high-performance supercapacitors. *Journal of Energy Storage*, **2021**, 103603	7.8	1