# Chandu V V Muralee Gopi

List of Publications by Year
in descending order



| 80 | 3,038 | 109321 35 | 182427 51 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 82 | 82 | 82 | 3013 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Wearable superhigh energy density supercapacitors using a hierarchical ternary metal selenide composite of CoNiSe<sub>2</sub> microspheres decorated with CoFe<sub>2</sub>Se<sub>4</sub> nanorods. Journal of Materials Chemistry A, 2018, 6, 7439-7448. | 10.3 | 154 |
| 2 | 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. | 8.1 | 137 |
| 3 | Carbon nanotube/metal-sulfide composite flexible electrodes for high-performance quantum dot-sensitized solar cells and supercapacitors. Scientific Reports, 2017, 7, 46519. | 3.3 | 134 |
| 4 | 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. | 12.7 | 133 |
| 5 | A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques. Electronics (Switzerland), 2020, 9, 1161. | 3.1 | 111 |
| 6 | A review on porous carbon electrode material derived from hypercross-linked polymers for supercapacitor applications. Journal of Energy Storage, 2020, 32, 101831. | 8.1 | 102 |
| 7 | Principles of Magnetic Hyperthermia: A Focus on Using Multifunctional Hybrid Magnetic Nanoparticles. Magnetochemistry, 2019, 5, 67. | 2.4 | 92 |
| 8 | Improved photovoltaic performance and stability of quantum dot sensitized solar cells using Mnâ€“ZnSe shell structure with enhanced light absorption and recombination control. Nanoscale, 2015, 7, 12552-12563. | 5.6 | 80 |
| 9 | NiMoO<sub>4</sub>@NiWO<sub>4</sub> honeycombs as a high performance electrode material for supercapacitor applications. Dalton Transactions, 2018, 47, 9057-9063. | 3.3 | 68 |
| 10 | 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, 630-638. | 3.3 | 67 |
| 11 | 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. | 8.1 | 64 |
| 12 | 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. | 10.3 | 59 |
| 13 | 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. | 10.3 | 59 |
| 14 | Hydrothermal synthesis of MoS<sub>2</sub> and WS<sub>2</sub> nanoparticles for high-performance supercapacitor applications. New Journal of Chemistry, 2018, 42, 12357-12360. | 2.8 | 59 |
| 15 | CNT@rGO@MoCuSe Composite as an Efficient Counter Electrode for Quantum Dot-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 10036-10042. | 8.0 | 55 |
| 16 | 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. | 5.5 | 53 |
| 17 | One-step hydrothermal synthesis of CuS@MnS on Ni foam for high performance supercapacitor electrode material. Electrochimica Acta, 2019, 305, 467-473. | 5.2 | 53 |
| 18 | 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. | 2.8 | 52 |

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|---|---|---|---|
| 19 | Facile one-step synthesis of a composite CuO/Co<sub>3</sub>O<sub>4</sub> electrode material on Ni foam for flexible supercapacitor applications. New Journal of Chemistry, 2017, 41, 5493-5497. | 2.8 | 47 |
| 20 | Recent Advancements of Polyaniline/Metal Organic Framework (PANI/MOF) Composite Electrodes for Supercapacitor Applications: A Critical Review. Nanomaterials, 2022, 12, 1511. | 4.1 | 47 |
| 21 | Enhanced electrochemical capacitance of polyimidazole coated covellite CuS dispersed CNT composite materials for application in supercapacitors. Dalton Transactions, 2016, 45, 12362-12371. | 3.3 | 46 |
| 22 | Improving the performance of quantum dot sensitized solar cells through CdNiS quantum dots with reduced recombination and enhanced electron lifetime. Dalton Transactions, 2016, 45, 8447-8457. | 3.3 | 44 |
| 23 | 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. | 8.1 | 44 |
| 24 | High performance of TiO<sub>2</sub>/CdS quantum dot sensitized solar cells with a Cuâ€“ZnS passivation layer. New Journal of Chemistry, 2017, 41, 1914-1917. | 2.8 | 43 |
| 25 | Hierarchical nanostructured MnCo<sub>2</sub>O<sub>4</sub>â€“NiCo<sub>2</sub>O<sub>4</sub> composites as innovative electrodes for supercapacitor applications. New Journal of Chemistry, 2018, 42, 17190-17194. | 2.8 | 43 |
| 26 | 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. | 8.1 | 41 |
| 27 | 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. | 3.3 | 39 |
| 28 | Novel electrode material derived from porous polymeric organic framework of phloroglucinol and terephthaldehyde for symmetric supercapacitors. Journal of Energy Storage, 2020, 28, 101283. | 8.1 | 39 |
| 29 | Novel 13X Zeolite/PANI electrocatalyst for hydrogen and oxygen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 28337-28349. | 7.1 | 38 |
| 30 | 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. | 3.3 | 38 |
| 31 | 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, 19330-19343. | 3.3 | 37 |
| 32 | Recombination control in high-performance quantum dot-sensitized solar cells with a novel TiO<sub>2</sub>/ZnS/CdS/ZnS heterostructure. Dalton Transactions, 2016, 45, 12914-12923. | 3.3 | 37 |
| 33 | 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. | 8.1 | 36 |
| 34 | 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. | 3.1 | 35 |
| 35 | Cost-effective and morphology controllable PVP based highly efficient CuS counter electrodes for high-efficiency quantum dot-sensitized solar cells. Dalton Transactions, 2015, 44, 11340-11351. | 3.3 | 35 |
| 36 | One-pot hydrothermal synthesis of tungsten diselenide/reduced graphene oxide composite as advanced electrode materials for supercapacitors. Materials Letters, 2018, 223, 57-60. | 2.6 | 35 |

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| 37 | Microflower-like nickel sulfide-lead sulfide hierarchical composites as binder-free electrodes for high-performance supercapacitors. Journal of Energy Storage, 2019, 26, 100925. | 8.1 | 35 |
| 38 | Optimal-Temperature-Based Highly Efficient NiS Counter Electrode for Quantum-Dot-Sensitized Solar Cells. European Journal of Inorganic Chemistry, 2014, 2014, 4281-4286. | 2.0 | 34 |
| 39 | Facile synthesis of hierarchical ZnMn<sub>2</sub>O<sub>4</sub>@ZnFe<sub>2</sub>O<sub>4</sub> microspheres on nickel foam for high-performance supercapacitor applications. New Journal of Chemistry, 2018, 42, 2964-2969. | 2.8 | 34 |
| 40 | Highly efficient and stable quantum dot-sensitized solar cells based on a Mn-doped CuS counter electrode. RSC Advances, 2015, 5, 2963-2967. | 3.6 | 32 |
| 41 | A strategy to enhance the efficiency of dye-sensitized solar cells by the highly efficient TiO2/ZnS photoanode. Dalton Transactions, 2015, 44, 2447-2455. | 3.3 | 30 |
| 42 | 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. | 3.6 | 28 |
| 43 | One-step facile hydrothermal synthesis of Fe2O3@LiCoO2 composite as excellent supercapacitor electrode materials. Applied Surface Science, 2018, 435, 462-467. | 6.1 | 27 |
| 44 | Template and binder free 1D cobalt nickel hydrogen phosphate electrode materials for supercapacitor application. Journal of Industrial and Engineering Chemistry, 2022, 106, 328-339. | 5.8 | 27 |
| 45 | Metal sensing-carbon dots loaded TiO2-nanocomposite for photocatalytic bacterial deactivation and application in aquaculture. Scientific Reports, 2020, 10, 12883. | 3.3 | 26 |
| 46 | 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. | 3.3 | 25 |
| 47 | 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. New Journal of Chemistry, 2017, 41, 10037-10047. | 2.8 | 25 |
| 48 | Novel porous carbon material derived from hypercross-linked polymer of p-xylene for supercapacitors electrode. Materials Letters, 2020, 263, 127222. | 2.6 | 25 |
| 49 | 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. | 3.8 | 24 |
| 50 | One-pot synthesis of copper oxideâ€“cobalt oxide coreâ€“shell nanocactus-like heterostructures as binder-free electrode materials for high-rate hybrid supercapacitors. Materials Today Energy, 2019, 14, 100358. | 4.7 | 24 |
| 51 | Construction of novel nanocomposite ZnO@CoFe<sub>2</sub>O<sub>4</sub> microspheres grown on nickel foam for high performance electrochemical supercapacitors. Analytical Methods, 2018, 10, 223-229. | 2.7 | 23 |
| 52 | 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. | 8.1 | 23 |
| 53 | Influence of solvents in the preparation of cobalt sulfide for supercapacitors. Royal Society Open Science, 2017, 4, 170427. | 2.4 | 22 |
| 54 | Novel composite electrode material derived from hypercross-linked polymer of pyrene and polyaniline for symmetric supercapacitor. Materials Letters, 2019, 257, 126732. | 2.6 | 22 |

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| 55 | 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. | 3.3 | 21 |
| 56 | 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 | 20 |
| 57 | Effect of erbium on the structural, morphological, and optical properties of SnO2 thin films deposited by spray pyrolysis. Optik, 2020, 202, 163596. | 2.9 | 20 |
| 58 | Facile Fabrication of MnCo2O4/NiO Flower-Like Nanostructure Composites with Improved Energy Storage Capacity for High-Performance Supercapacitors. Nanomaterials, 2021, 11, 1424. | 4.1 | 20 |
| 59 | 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. | 8.1 | 18 |
| 60 | 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. | 2.8 | 17 |
| 61 | 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. | 8.1 | 17 |
| 62 | Layer by layer approach to enhance capacitance using metal sulfides for supercapacitor applications. Materials Letters, 2018, 231, 64-67. | 2.6 | 15 |
| 63 | Morphology-dependent binder-free CuNiO2electrode material with excellent electrochemical performances for supercapacitors. Journal of Energy Storage, 2019, 26, 101037. | 8.1 | 14 |
| 64 | 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, . | 2.5 | 13 |
| 65 | 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. | 3.6 | 12 |
| 66 | Facile preparation of nanoflake MnNi<sub>2</sub>O<sub>4</sub>â€“PbS nanoparticle composites on Ni foam as advanced electrode materials for supercapacitors. New Journal of Chemistry, 2018, 42, 14157-14162. | 2.8 | 12 |
| 67 | 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. | 8.1 | 11 |
| 68 | Development of Novel and Ultra-High-Performance Supercapacitor Based on a Four Layered Unique Structure. Electronics (Switzerland), 2018, 7, 121. | 3.1 | 10 |
| 69 | 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. | 2.2 | 10 |
| 70 | 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. | 2.2 | 9 |
| 71 | 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. | 2.9 | 9 |
| 72 | Facile synthesis of unique diamond-like structured CdMn2O4@CdMn2O4 composite material for high performance supercapacitors. Materials Letters, 2018, 210, 143-147. | 2.6 | 8 |

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|---|---|---|---|
| 73 | Polyanilineâ€“13X zeolite compositeâ€supported platinum electrocatalysts for direct methanol fuel cell applications. Polymer International, 2019, 68, 929-935. | 3.1 | 8 |
| 74 | 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. | 4.6 | 7 |
| 75 | Designing nanosheet manganese cobaltate@manganese cobaltate nanosheet arrays as a battery-type electrode material towards high-performance supercapacitors. Journal of Energy Storage, 2022, 47, 103603. | 8.1 | 6 |
| 76 | Improved light-harvesting and suppressed charge recombination by introduction of a nanograss-like SnO<sub>2</sub> interlayer for efficient CdS quantum dot sensitized solar cells. RSC Advances, 2019, 9, 38047-38054. | 3.6 | 5 |
| 77 | Design of Supercapacitor for Electric and Hybrid Vehicles : Supercapacitor. , 2018, , . | | 4 |
| 78 | Influence of temperature on the magnetic properties of Mn3O4 nanowires. Current Chemistry Letters, 2021, , 203-208. | 1.6 | 3 |
| 79 | Hydrothermal synthesis, crystal and electronic structure of a new hydrated borate CsKB4O5(OH)4Â·2H2O. Materials Express, 2020, 10, 543-550. | 0.5 | 1 |
| 80 | Synthesis and Blue Emission Properties of Co-Doped CdS Semiconductor Nanoparticles. Current Applied Materials, 2022, 1, . | 0.5 | 0 |