Vignesh Murugadoss

List of Publications by Year
in descending order

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38 papers	3,442 citations	201385 27 h-index	315357 38 g-index
38 all docs	38 docs citations	38 times ranked	4159 citing authors

#	Article	IF	Citations
1	Influence of mass ratio and calcination temperature on physical and photoelectrochemical properties of ZnFe-layered double oxide/cobalt oxide heterojunction semiconductor for dye degradation applications. Particuology, 2023, 74, 141-155.	2.0	40
2	Overview of renewable polysaccharide-based composites for biodegradable food packaging applications. Green Chemistry, 2022, 24, 480-492.	4.6	51
3	Effects of rare earth neodymium (Nd) and heat treatment on anti-corrosion behaviors of the AZ80 magnesium alloy. Advanced Composites and Hybrid Materials, 2022, 5, 1460-1476.	9.9	20
4	Preparation of Bi/BiOBr sensitized titania nanorod arrays via a one-pot solvothermal method and construction of kanamycin photoelectrochemical aptasensors. Dalton Transactions, 2022, 51, 8279-8289.	1.6	4
5	Hydrothermal Microwave Synthesis of Co₃O₄/In₂O₃ Nanostructures for Photoelectrocatalytic Reduction of Cr(VI). ACS Applied Nano Materials, 2022, 5, 8755-8766.	2.4	43
6	Work Function-Tunable Amorphous Carbonâ€“Silver Nanocomposite Hybrid Electrode for Optoelectronic Applications. ACS Applied Materials & Interfaces, 2021, 13, 4284-4293.	4.0	18
7	<scp> Cu ₂ AgInS ₂ Se ₂ </scp> quantum dots sensitized porous <scp> TiO ₂ </scp> nanofibers as a photoanode for highâ€performance quantum dot sensitized solar cell. International Journal of Energy Research, 2021, 45, 13563-13574.	2.2	7
8	Cobalt selenide decorated polyaniline composite nanofibers as a newer counter electrode for dyeâ€sensitized solar cell. Polymers for Advanced Technologies, 2021, 32, 3137-3149.	1.6	7
9	Modifying coconut shell activated carbon for improved purification of benzene from volatile organic waste gas. Advanced Composites and Hybrid Materials, 2021, 4, 751-760.	9.9	43
10	Designing Na₂Zn₂TeO₆-Embedded 3D-Nanofibrous Poly(vinylidenefluoride)-co-hexafluoropropylene-Based Nanohybrid Electrolyte via Electrospinning for Durable Sodium-Ion Capacitors. ACS Applied Energy Materials, 2021, 4, 8475-8487.	2.5	11
11	Carbon nitride nanoplatelet photocatalysts heterostructured with B-doped carbon nanodots for enhanced photodegradation of organic pollutants. Journal of Colloid and Interface Science, 2020, 559, 124-133.	5.0	79
12	A highly Li⁺-conductive HfNb₂₄O₆₂ anode material for superior Li⁺ storage. Chemical Communications, 2020, 56, 619-622.	2.2	57
13	Tunneling-induced negative permittivity in Ni/MnO nanocomposites by a bio-gel derived strategy. Journal of Materials Chemistry C, 2020, 8, 3029-3039.	2.7	169
14	Development of tungsten diselenide/polyaniline composite nanofibers as an efficient electrocatalytic counter electrode material for dye-sensitized solar cell. Solar Energy, 2020, 209, 538-546.	2.9	20
15	Influence of a bifunctional linker on the loading of Cu₂AgInS₄ QDs onto porous TiO₂ NFs to use as an efficient photoanode to boost the photoconversion efficiency of QDSCs. New Journal of Chemistry, 2020, 44, 13148-13156.	1.4	16
16	Cu2AgInSe4 QDs sensitized electrospun porous TiO2 nanofibers as an efficient photoanode for quantum dot sensitized solar cells. Solar Energy, 2020, 199, 317-325.	2.9	19
17	Effects of pretreated carbon supports in Pd/C catalysts on rosin disproportionation catalytic performance. Chemical Engineering Science, 2020, 216, 115588.	1.9	10
18	Enhancing thermal conductivity via conductive network conversion from high to low thermal dissipation in polydimethylsiloxane composites. Journal of Materials Chemistry C, 2020, 8, 3463-3475.	2.7	85

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19	Long-term antibacterial stable reduced graphene oxide nanocomposites loaded with cuprous oxide nanoparticles. Journal of Colloid and Interface Science, 2019, 533, 13-23.	5.0	247
20	2D MoSe2-Ni(OH)2 nanohybrid as an efficient electrode material with high rate capability for asymmetric supercapacitor applications. Chemical Engineering Journal, 2019, 355, 881-890.	6.6	209
21	Facile bioactive yeast cell templated synthesis of laser stealth antimony doped tin oxide hollow microspheres. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 123965.	2.3	21
22	Optimizing graphene content in a NiSe/graphene nanohybrid counter electrode to enhance the photovoltaic performance of dye-sensitized solar cells. Nanoscale, 2019, 11, 17579-17589.	2.8	99
23	Nanocomposite sponges of sodium alginate/graphene oxide/polyvinyl alcohol as potential wound dressing: In vitro and in vivo evaluation. Composites Part B: Engineering, 2019, 167, 396-405.	5.9	258
24	Amino graphene oxide/dopamine modified aramid fibers: Preparation, epoxy nanocomposites and property analysis. Polymer, 2019, 168, 131-137.	1.8	161
25	Sandwich structured WO₃ nanoplatelets for highly efficient photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 26077-26088.	5.2	76
26	Structural characterization of lignin and its carbohydrate complexes isolated from bamboo (Dendrocalamus sinicus). International Journal of Biological Macromolecules, 2019, 126, 376-384.	3.6	105
27	Development of electrospun PAN/CoS nanocomposite membrane electrolyte for high-performance DSSC. Ionics, 2018, 24, 4071-4080.	1.2	41
28	Facile synthesis of electrostatically anchored Nd(OH)₃ nanorods onto graphene nanosheets as a high capacitance electrode material for supercapacitors. New Journal of Chemistry, 2018, 42, 2923-2932.	1.4	69
29	In situ grown nickel selenide on graphene nanohybrid electrodes for high energy density asymmetric supercapacitors. Nanoscale, 2018, 10, 20414-20425.	2.8	332
30	Overview of carbon nanostructures and nanocomposites for electromagnetic wave shielding. Carbon, 2018, 140, 696-733.	5.4	574
31	Microstructural evolution and mechanical strengthening mechanism of Mg-3Sn-1Mn-1La alloy after heat treatments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 734, 200-209.	2.6	91
32	Cu2ZnSnSe4 QDs sensitized electrospun porous TiO2 nanofibers as photoanode for high performance QDSC. Solar Energy, 2018, 171, 571-579.	2.9	34
33	Hydrothermal assisted in situ growth of CoSe onto graphene nanosheets as a nanohybrid positive electrode for asymmetric supercapacitors. RSC Advances, 2017, 7, 5853-5862.	1.7	111
34	Dimensional stability and electrochemical behaviour of ZrO2 incorporated electrospun PVdF-HFP based nanocomposite polymer membrane electrolyte for Li-ion capacitors. Scientific Reports, 2017, 7, 45390.	1.6	73
35	High performance electrospun PVdFâ€HFP/SiO₂ nanocomposite membrane electrolyte for Liâ€ion capacitors. Journal of Applied Polymer Science, 2017, 134, 45177.	1.3	53
36	In situ grown cobalt selenide/graphene nanocomposite counter electrodes for enhanced dye-sensitized solar cell performance. Journal of Materials Chemistry A, 2017, 5, 14583-14594.	5.2	84

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37	Montmorillonite embedded electrospun PVdFâ€“HFP nanocomposite membrane electrolyte for Li-ion capacitors. Applied Materials Today, 2016, 5, 33-40.	2.3	65
38	Development of a conjugated polyaniline incorporated electrospun poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (fluoric dyeâ€sensitized solar cells. Journal of Applied Polymer Science, 2015, 132, .	1.3	40