

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	Overview of carbon nanostructures and nanocomposites for electromagnetic wave shielding. Carbon, 2018, 140, 696-733.	5.4	574
2	<i>In situ</i> grown nickel selenide on graphene nanohybrid electrodes for high energy density asymmetric supercapacitors. Nanoscale, 2018, 10, 20414-20425.	2.8	332
3	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
4	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
5	2D MoSe ₂ -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
6	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
7	Amino graphene oxide/dopamine modified aramid fibers: Preparation, epoxy nanocomposites and property analysis. Polymer, 2019, 168, 131-137.	1.8	161
8	Hydrothermal assisted <i>in situ</i> growth of CoSe onto graphene nanosheets as a nanohybrid positive electrode for asymmetric supercapacitors. RSC Advances, 2017, 7, 5853-5862.	1.7	111
9	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
10	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
11	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
12	Enhancing thermal conductivity <i>via</i> conductive network conversion from high to low thermal dissipation in polydimethylsiloxane composites. Journal of Materials Chemistry C, 2020, 8, 3463-3475.	2.7	85
13	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
14	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
15	Sandwich structured WO ₃ nanoplatelets for highly efficient photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 26077-26088.	5.2	76
16	Dimensional stability and electrochemical behaviour of ZrO ₂ incorporated electrospun PVdF-HFP based nanocomposite polymer membrane electrolyte for Li-ion capacitors. Scientific Reports, 2017, 7, 45390.	1.6	73
17	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
18	Montmorillonite embedded electrospun PVdF-HFP nanocomposite membrane electrolyte for Li-ion capacitors. Applied Materials Today, 2016, 5, 33-40.	2.3	65

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19	A highly Li ⁺ -conductive HfNb ₂₄ O ₆₂ anode material for superior Li ⁺ storage. <i>Chemical Communications</i> , 2020, 56, 619-622.	2.2	57
20	High performance electrospun PVdF ^g /SiO ₂ nanocomposite membrane electrolyte for Li-ion capacitors. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45177.	1.3	53
21	Overview of renewable polysaccharide-based composites for biodegradable food packaging applications. <i>Green Chemistry</i> , 2022, 24, 480-492.	4.6	51
22	Modifying coconut shell activated carbon for improved purification of benzene from volatile organic waste gas. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 751-760.	9.9	43
23	Hydrothermal Microwave Synthesis of Co ₃ O ₄ /In ₂ O ₃ Nanostructures for Photoelectrocatalytic Reduction of Cr(VI). <i>ACS Applied Nano Materials</i> , 2022, 5, 8755-8766.	2.4	43
24	Development of electrospun PAN/CoS nanocomposite membrane electrolyte for high-performance DSSC. <i>Ionics</i> , 2018, 24, 4071-4080.	1.2	41
25	Development of a conjugated polyaniline incorporated electrospun poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50 dye-sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	40
26	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. <i>Particuology</i> , 2023, 74, 141-155.	2.0	40
27	Cu ₂ ZnSnSe ₄ QDs sensitized electrospun porous TiO ₂ nanofibers as photoanode for high performance QDSC. <i>Solar Energy</i> , 2018, 171, 571-579.	2.9	34
28	Facile bioactive yeast cell templated synthesis of laser stealth antimony doped tin oxide hollow microspheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123965.	2.3	21
29	Development of tungsten diselenide/polyaniline composite nanofibers as an efficient electrocatalytic counter electrode material for dye-sensitized solar cell. <i>Solar Energy</i> , 2020, 209, 538-546.	2.9	20
30	Effects of rare earth neodymium (Nd) and heat treatment on anti-corrosion behaviors of the AZ80 magnesium alloy. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1460-1476.	9.9	20
31	Cu ₂ AgInSe ₄ QDs sensitized electrospun porous TiO ₂ nanofibers as an efficient photoanode for quantum dot sensitized solar cells. <i>Solar Energy</i> , 2020, 199, 317-325.	2.9	19
32	Work Function-Tunable Amorphous Carbon-Silver Nanocomposite Hybrid Electrode for Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4284-4293.	4.0	18
33	Influence of a bifunctional linker on the loading of Cu ₂ AgInS ₄ QDs onto porous TiO ₂ NFs to use as an efficient photoanode to boost the photoconversion efficiency of QDSCs. <i>New Journal of Chemistry</i> , 2020, 44, 13148-13156.	1.4	16
34	Designing Na ₂ Zn ₂ TeO ₆ -Embedded 3D-Nanofibrous Poly(vinylidene fluoride)-hexafluoropropylene-Based Nanohybrid Electrolyte via Electrospinning for Durable Sodium-Ion Capacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 8475-8487.	2.5	11
35	Effects of pretreated carbon supports in Pd/C catalysts on rosin disproportionation catalytic performance. <i>Chemical Engineering Science</i> , 2020, 216, 115588.	1.9	10
36	Cu ₂ AgInS ₂ Se ₂ quantum dots sensitized porous TiO ₂ nanofibers as a photoanode for high-performance quantum dot sensitized solar cell. <i>International Journal of Energy Research</i> , 2021, 45, 13563-13574.	2.2	7

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37	Cobalt selenide decorated polyaniline composite nanofibers as a newer counter electrode for dye-sensitized solar cell. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3137-3149.	1.6	7
38	Preparation of Bi/BiOBr sensitized titania nanorod arrays <i>via</i> a one-pot solvothermal method and construction of kanamycin photoelectrochemical aptasensors. <i>Dalton Transactions</i> , 2022, 51, 8279-8289.	1.6	4