

Elanthamilan Elaiyappillai

List of Publications by Year in descending order

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47
papers

1,775
citations

279798

23
h-index

276875

41
g-index

47
all docs

47
docs citations

47
times ranked

1441
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of hierarchical NiCo ₂ S ₄ @CoS ₂ nanostructures on highly conductive flexible carbon cloth substrate as a hybrid electrode material for supercapacitors with enhanced electrochemical performance. <i>Electrochimica Acta</i> , 2019, 293, 328-337.	5.2	169
2	Preparation and characterization of activated carbon derived from the <i>Borassus flabellifer</i> flower as an electrode material for supercapacitor applications. <i>New Journal of Chemistry</i> , 2017, 41, 3939-3949.	2.8	119
3	A facile sonochemical assisted synthesis of γ -MnMoO ₄ /PANI nanocomposite electrode for supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , 2017, 797, 78-88.	3.8	102
4	Low cost activated carbon derived from <i>Cucumis melo</i> fruit peel for electrochemical supercapacitor application. <i>Applied Surface Science</i> , 2019, 486, 527-538.	6.1	101
5	Enhanced electrochemical behaviour of Co-MOF/PANI composite electrode for supercapacitors. <i>Inorganica Chimica Acta</i> , 2020, 502, 119393.	2.4	100
6	Polyaniline based charcoal/Ni nanocomposite material for high performance supercapacitors. <i>Sustainable Energy and Fuels</i> , 2018, 2, 811-819.	4.9	75
7	Bismuth nanoparticles decorated graphenated carbon nanotubes modified screen-printed electrode for mercury detection. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 466-474.	5.3	75
8	Sustainable porous activated carbon from <i>Polyalthia longifolia</i> seeds as electrode material for supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2019, 849, 113382.	3.8	66
9	Study on the electrochemical behavior of BiVO ₄ /PANI composite as a high performance supercapacitor material with excellent cyclic stability. <i>Journal of Electroanalytical Chemistry</i> , 2020, 861, 113972.	3.8	64
10	Enhanced electrochemical behaviour of FeCo ₂ O ₄ /PANI electrode material for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 874, 159876.	5.5	59
11	Recovery of copper oxide nanoparticles from waste SIM cards for supercapacitor electrode material. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156582.	5.5	47
12	<i>Couroupita guianensis</i> dead flower derived porous activated carbon as efficient supercapacitor electrode material. <i>Materials Research Bulletin</i> , 2019, 112, 390-398.	5.2	46
13	Sonochemically recovered silver oxide nanoparticles from the wastewater of photo film processing units as an electrode material for supercapacitor and sensing of 2, 4, 6-trichlorophenol in agricultural soil samples. <i>Ultrasonics Sonochemistry</i> , 2019, 50, 255-264.	8.2	46
14	A comparative study on conventionally prepared MnFe ₂ O ₄ nanospheres and template-synthesized novel MnFe ₂ O ₄ nano-agglomerates as the electrodes for biosensing of mercury contaminations and supercapacitor applications. <i>Electrochimica Acta</i> , 2018, 290, 533-543.	5.2	45
15	Effect of decorating cobalt ferrite spinel structures on pistachio vera shell derived activated carbon on energy storage applications. <i>Electrochimica Acta</i> , 2020, 359, 136953.	5.2	41
16	Facile synthesis of Eu-doped CaTiO ₃ and their enhanced supercapacitive performance. <i>Ionics</i> , 2020, 26, 3543-3554.	2.4	39
17	Cost effective synthesis of a copper-1 <i>H</i> -imidazole@activated carbon metal organic framework as an electrode material for supercapacitor applications. <i>New Journal of Chemistry</i> , 2018, 42, 10300-10308.	2.8	37
18	Facile synthesis of Zn ₃ V ₂ O ₈ nanostructured material and its enhanced supercapacitive performance. <i>Journal of Alloys and Compounds</i> , 2021, 861, 157939.	5.5	37

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19	Modulation in the Band Dispersion of Bi ₂ WO ₆ Nanocrystals Using the Electronegativity of Transition Elements for Enhanced Visible Light Photocatalysis. <i>Crystal Growth and Design</i> , 2019, 19, 6224-6238.	3.0	35
20	Fabrication of a CuCo ₂ O ₄ /PANI nanocomposite as an advanced electrode for high performance supercapacitors. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5313-5326.	4.9	35
21	One-Pot Green Recovery of Copper Oxide nanoparticles from Discarded Printed Circuit Boards for electrode material in Supercapacitor Application. <i>Resources, Conservation and Recycling</i> , 2022, 180, 106180.	10.8	32
22	Electrochemical Studies on <i>Tamarindus indica</i> Fruit Shell Bio-Waste Derived Nanoporous Activated Carbons for Supercapacitor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3388-3397.	0.9	29
23	Fabrication of Co ₃ O ₄ nanoparticle-decorated porous activated carbon electrode for the electrochemical detection of 4-nitrophenol. <i>New Journal of Chemistry</i> , 2021, 45, 18358-18365.	2.8	25
24	Effect of Ni ²⁺ doping on chemocatalytic and supercapacitor performance of biosynthesized nanostructured CuO. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 21180-21193.	2.2	24
25	Multifunctional magnetic CoFe ₂ O ₄ nanoparticles for the photocatalytic discoloration of aqueous methyl violet dye and energy storage applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10738-10749.	2.2	23
26	Aloe vera (L.) Burm.f. extract reduced graphene oxide for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16648-16657.	2.2	22
27	Electrochemical performance of <i>L</i> -tryptophan picrate as an efficient electrode material for supercapacitor application. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11829-11838.	2.8	22
28	A simple chemical approach for synthesis of Sr ₂ Co ₂ O ₅ nanoparticles and its application in the detection of chloramphenicol and in energy storage systems. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114911.	3.8	22
29	Walnut shell derived mesoporous activated carbon for high performance electrical double layer capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2021, 901, 115762.	3.8	22
30	Synergistic effect of Co ₃ O ₄ nanoparticles with Bauhinia vahlii dry fruits derived activated carbon on energy storage applications. <i>Journal of Solid State Chemistry</i> , 2021, 295, 121931.	2.9	21
31	Effective conversion of Cassia fistula dry fruits biomass into porous activated carbon for supercapacitors. <i>Materials Chemistry and Physics</i> , 2022, 286, 126188.	4.0	20
32	Electro-organic synthesis of 2-(4,5-diphenyl-1H-imidazol-2-yl)phenol in Aqueous medium for organic monomer based Supercapacitor electrode. <i>Electrochimica Acta</i> , 2017, 251, 32-42.	5.2	19
33	Bio-assisted Hydrothermal Synthesis and Characterization of MnWO ₄ Nanorods for High-Performance Supercapacitor Applications. <i>Journal of Electronic Materials</i> , 2019, 48, 7239-7249.	2.2	19
34	Sonochemically Recovered Aluminum Oxide Nanoparticles from Domestic Aluminum Wastes as a Highly Stable Electrocatalyst for Proton-Pump Inhibitor (Omeprazole) Detection. <i>Journal of the Electrochemical Society</i> , 2020, 167, 027544.	2.9	15
35	Effect of annealing temperature on structural, optical and visible light photocatalytic performance of CaTiO ₃ catalysts synthesized by simple sol-gel technique. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108051.	3.9	14
36	A simple conversion of expired medicines into nontoxic activated carbon for energy storage applications. <i>International Journal of Energy Research</i> , 2022, 46, 4380-4392.	4.5	13

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37	Facile synthesis of platelet-like zirconium tungstate nanostructures for high-performance supercapacitors. <i>International Journal of Energy Research</i> , 2022, 46, 17113-17125.	4.5	13
38	A fascinating multifunctional bis(2-(4,5-diphenyl-1H-imidazol-2-yl)phenoxy)nickel complex: An excellent electrode material for supercapacitor and uric acid sensor. <i>Materials Research Bulletin</i> , 2019, 118, 110482.	5.2	12
39	Sonochemical Assisted Leaching of Aluminium Oxide Nanoparticles from Domestic Aluminium Wastes as Non-Toxic Electrode Material for Energy Storage Application. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110541.	2.9	12
40	Tuning the efficiency of CoFe ₂ O ₄ @rGO composite by encapsulating Ag nanoparticles for the photocatalytic degradation of methyl violet dye and energy storage systems. <i>New Journal of Chemistry</i> , 2021, 45, 17642-17653.	2.8	11
41	Pronounced luminescence efficiency and thermal stability of small imidazole architect 2-(1, 4, 5-triazol-2-yl)pyridine. <i>Photobiology A: Chemistry</i> , 2018, 365, 232-237.	3.9	10
42	Biomass-derived porous activated carbon from <i>Anacardium occidentale</i> shell as electrode material for supercapacitors. <i>New Journal of Chemistry</i> , 2022, 46, 8863-8873.	2.8	10
43	Electrochemical Detection of Trace Amounts of Arsenic (III) in Poultry Using a Graphene Oxide-Bis(2-(4,5-diphenyl-1H-imidazol-2-yl)phenoxy)Cobalt Composite Modified Electrode. <i>Journal of Electronic Materials</i> , 2019, 48, 4498-4506.	2.2	7
44	Development of a electrochemical sensor for the detection of 2,4-dichlorophenol using a polymer nanocomposite of rGO. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 7150-7162.	2.2	6
45	HRGO@Co@SnO ₂ Nanocomposite for Electrochemical Detection of Hydrazine. <i>Journal of Electronic Materials</i> , 2019, 48, 542-550.	2.2	6
46	New insight of red seaweed derived Callophycin A as an alternative strategy to treat drug resistance vaginal candidiasis. <i>Bioorganic Chemistry</i> , 2020, 104, 104256.	4.1	5
47	Electrochemical Detection of Norepinephrine Using Sponge-like Co ₃ O ₄ Modified Screen Printed Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2017, , 10524-10533.	1.3	3