

Elanthamilan Elaiyappillai

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papers

852
citations

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h-index

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g-index

47
ext. papers

1,256
ext. citations

4.3
avg, IF

4.88
L-index

#	Paper	IF	Citations
43	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	6.7	121
42	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	3.6	79
41	A facile sonochemical assisted synthesis of MnMoO ₄ /PANI nanocomposite electrode for supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 797, 78-88	4.1	70
40	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	50
39	Low cost activated carbon derived from Cucumis melo fruit peel for electrochemical supercapacitor application. <i>Applied Surface Science</i> , 2019 , 486, 527-538	6.7	48
38	Polyaniline based charcoal/Ni nanocomposite material for high performance supercapacitors. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 811-819	5.8	44
37	Enhanced electrochemical behaviour of Co-MOF/PANI composite electrode for supercapacitors. <i>Inorganica Chimica Acta</i> , 2020 , 502, 119393	2.7	43
36	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	4.1	37
35	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	6.7	29
34	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	4.1	26
33	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	8.9	22
32	Couroupita guianensis dead flower derived porous activated carbon as efficient supercapacitor electrode material. <i>Materials Research Bulletin</i> , 2019 , 112, 390-398	5.1	21
31	Cost effective synthesis of a copper-1H-imidazole@activated carbon metal organic framework as an electrode material for supercapacitor applications. <i>New Journal of Chemistry</i> , 2018 , 42, 10300-10308	3.6	20
30	Recovery of copper oxide nanoparticles from waste SIM cards for supercapacitor electrode material. <i>Journal of Alloys and Compounds</i> , 2020 , 849, 156582	5.7	18
29	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	2.1	18
28	Enhanced electrochemical behaviour of FeCo ₂ O ₄ /PANI electrode material for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021 , 874, 159876	5.7	18
27	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	6.7	17

26	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	2.5	16
25	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	5.8	14
24	Electrochemical performance of l-tryptophanium picrate as an efficient electrode material for supercapacitor application. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 11829-11838	3.6	13
23	Facile synthesis of Eu-doped CaTiO ₃ and their enhanced supercapacitive performance. <i>Ionics</i> , 2020 , 26, 3543-3554	2.7	12
22	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	2.1	12
21	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	6.7	12
20	Electrochemical Studies on Fruit Shell Bio-Waste Derived Nanoporous Activated Carbons for Supercapacitor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 3388-3397	1.3	9
19	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	2.1	9
18	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	1.9	8
17	Pronounced luminescence efficiency and thermal stability of small imidazole architect 2-(1, 4, 5-triphenyl-1H-imidazol-2-yl)phenol for efficient non-doped blue OLEDs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 365, 232-237	4.7	7
16	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	5.7	7
15	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	4.1	7
14	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	3.1	6
13	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	5.1	5
12	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	3.9	5
11	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	3.3	5
10	HRGO@Co@SnO ₂ Nanocomposite for Electrochemical Detection of Hydrazine. <i>Journal of Electronic Materials</i> , 2019 , 48, 542-550	1.9	4
9	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	1.9	3

8	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	2.1	3
7	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	1.9	3
6	Walnut shell derived mesoporous activated carbon for high performance electrical double layer capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 901, 115762	4.1	2
5	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	5.1	2
4	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	3.6	2
3	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	3.9	1
2	Biomass-derived porous activated carbon from anacardium occidentale shell as electrode material for supercapacitors. <i>New Journal of Chemistry</i> , 2022 , 46, 8863-8873	3.6	0
1	Effective conversion of Cassia fistula dry fruits biomass into porous activated carbon for supercapacitors. <i>Materials Chemistry and Physics</i> , 2022 , 286, 126188	4.4	0