Elanthamilan Elaiyappillai

List of Publications by Year
in descending order

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	A simple conversion of expired medicines into nontoxic activated carbon for energy storage applications. International Journal of Energy Research, 2022, 46, 4380-4392.	4.5	13
2	One-Pot Green Recovery of Copper Oxide nanoparticles from Discarded Printed Circuit Boards for electrode material in Supercapacitor Application. Resources, Conservation and Recycling, 2022, 180, 106180.	10.8	32
3	Biomass-derived porous activated carbon from anacardium occidentale shell as electrode material for supercapacitors. New Journal of Chemistry, 2022, 46, 8863-8873.	2.8	10
4	Effective conversion of Cassia fistula dry fruits biomass into porous activated carbon for supercapacitors. Materials Chemistry and Physics, 2022, 286, 126188.	4.0	20
5	Facile synthesis of plateletâ€like zirconium tungstate nanostructures for highâ€performance supercapacitors. International Journal of Energy Research, 2022, 46, 17113-17125.	4.5	13
6	Facile synthesis of Zn3V2O8 nanostructured material and its enhanced supercapacitive performance. Journal of Alloys and Compounds, 2021, 861, 157939.	5.5	37
7	A simple chemical approach for synthesis of Sr2Co2O5 nanoparticles and its application in the detection of chloramphenicol and in energy storage systems. Journal of Electroanalytical Chemistry, 2021, 880, 114911.	3.8	22
8	Tuning the efficiency of CoFe₂O₄@rGO composite by encapsulating Ag nanoparticles for the photocatalytic degradation of methyl violet dye and energy storage systems. New Journal of Chemistry, 2021, 45, 17642-17653.	2.8	11
9	Fabrication of Co₃O₄nanoparticle-decorated porous activated carbon electrode for the electrochemical detection of 4-nitrophenol. New Journal of Chemistry, 2021, 45, 18358-18365.	2.8	25
10	Synergistic effect of Co3O4 nanoparticles with Bauhinia vahlii dry fruits derived activated carbon on energy storage applications. Journal of Solid State Chemistry, 2021, 295, 121931.	2.9	21
11	Enhanced electrochemical behaviour of FeCo2O4/PANI electrode material for supercapacitors. Journal of Alloys and Compounds, 2021, 874, 159876.	5.5	59
12	Walnut shell derived mesoporous activated carbon for high performance electrical double layer capacitors. Journal of Electroanalytical Chemistry, 2021, 901, 115762.	3.8	22
13	Enhanced electrochemical behaviour of Co-MOF/PANI composite electrode for supercapacitors. Inorganica Chimica Acta, 2020, 502, 119393.	2.4	100
14	New insight of red seaweed derived Callophycin A as an alternative strategy to treat drug resistance vaginal candidiasis. Bioorganic Chemistry, 2020, 104, 104256.	4.1	5
15	Effect of decorating cobalt ferrite spinel structures on pistachio vera shell â€“derived activated carbon on energy storage applications. Electrochimica Acta, 2020, 359, 136953.	5.2	41
16	Sonochemical Assisted Leaching of Aluminium Oxide Nanoparticles from Domestic Aluminium Wastes as Non-Toxic Electrode Material for Energy Storage Application. Journal of the Electrochemical Society, 2020, 167, 110541.	2.9	12
17	Recovery of copper oxide nanoparticles from waste SIM cards for supercapacitor electrode material. Journal of Alloys and Compounds, 2020, 849, 156582.	5.5	47
18	Fabrication of a CuCo₂O₄/PANI nanocomposite as an advanced electrode for high performance supercapacitors. Sustainable Energy and Fuels, 2020, 4, 5313-5326.	4.9	35

#	Article	IF	Citations
19	Facile synthesis of Eu-doped CaTiO3 and their enhanced supercapacitive performance. Ionics, 2020, 26, 3543-3554.	2.4	39
20	Effect of annealing temperature on structural, optical and visible light photocatalytic performance of CaTiO3 catalysts synthesized by simple sol-gel technique. Inorganic Chemistry Communication, 2020, 119, 108051.	3.9	14
21	Study on the electrochemical behavior of BiVO4/PANI composite as a high performance supercapacitor material with excellent cyclic stability. Journal of Electroanalytical Chemistry, 2020, 861, 113972.	3.8	64
22	Multifunctional magnetic CoFe2O4 nanoparticles for the photocatalytic discoloration of aqueous methyl violet dye and energy storage applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 10738-10749.	2.2	23
23	Sonochemically Recovered Aluminum Oxide Nanoparticles from Domestic Aluminum Wastes as a Highly Stable Electrocatalyst for Proton-Pump Inhibitor (Omeprazole) Detection. Journal of the Electrochemical Society, 2020, 167, 027544.	2.9	15
24	Bio-assisted Hydrothermal Synthesis and Characterization of MnWO4 Nanorods for High-Performance Supercapacitor Applications. Journal of Electronic Materials, 2019, 48, 7239-7249.	2.2	19
25	Sustainable porous activated carbon from Polyalthia longifolia seeds as electrode material for supercapacitor application. Journal of Electroanalytical Chemistry, 2019, 849, 113382.	3.8	66
26	Modulation in the Band Dispersion of Bi₂WO₆ Nanocrsytals Using the Electronegativity of Transition Elements for Enhanced Visible Light Photocatalysis. Crystal Growth and Design, 2019, 19, 6224-6238.	3.0	35
27	Electrochemical performance of <scp>l</scp>-tryptophanium picrate as an efficient electrode material for supercapacitor application. Physical Chemistry Chemical Physics, 2019, 21, 11829-11838.	2.8	22
28	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. Materials Research Bulletin, 2019, 118, 110482.	5.2	12
29	Low cost activated carbon derived from Cucumis melo fruit peel for electrochemical supercapacitor application. Applied Surface Science, 2019, 486, 527-538.	6.1	101
30	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. Journal of Electronic Materials, 2019, 48, 4498-4506.	2.2	7
31	Development of a electrochemical sensor for the detection of 2,4-dichlorophenol using a polymer nanocomposite of rGO. Journal of Materials Science: Materials in Electronics, 2019, 30, 7150-7162.	2.2	6
32	Electrochemical Studies on Tamarindus indica Fruit Shell Bio-Waste Derived Nanoporous Activated Carbons for Supercapacitor Applications. Journal of Nanoscience and Nanotechnology, 2019, 19, 3388-3397.	0.9	29
33	Bismuth nanoparticles decorated graphenated carbon nanotubes modified screen-printed electrode for mercury detection. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 466-474.	5.3	75
34	Couroupita guianansis dead flower derived porous activated carbon as efficient supercapacitor electrode material. Materials Research Bulletin, 2019, 112, 390-398.	5.2	46
35	HRGOâ€“Co@SnO2 Nanocomposite for Electrochemical Detection of Hydrazine. Journal of Electronic Materials, 2019, 48, 542-550.	2.2	6
36	Fabrication of hierarchical NiCo2S4@CoS2 nanostructures on highly conductive flexible carbon cloth substrate as a hybrid electrode material for supercapacitors with enhanced electrochemical performance. Electrochimica Acta, 2019, 293, 328-337.	5.2	169

#	Article	IF	Citations
37	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. Ultrasonics Sonochemistry, 2019, 50, 255-264.	8.2	46
38	Polyaniline based charcoal/Ni nanocomposite material for high performance supercapacitors. Sustainable Energy and Fuels, 2018, 2, 811-819.	4.9	75
39	Effect of Ni2+ doping on chemocatalytic and supercapacitor performance of biosynthesized nanostructured CuO. Journal of Materials Science: Materials in Electronics, 2018, 29, 21180-21193.	2.2	24
40	A comparative study on conventionally prepared MnFe2O4 nanospheres and template-synthesized novel MnFe2O4 nano-agglomerates as the electrodes for biosensing of mercury contaminations and supercapacitor applications. Electrochimica Acta, 2018, 290, 533-543.	5.2	45
41	Cost effective synthesis of a copper-1H-imidazole@activated carbon metal organic framework as an electrode material for supercapacitor applications. New Journal of Chemistry, 2018, 42, 10300-10308.	2.8	37
42	Pronounced luminescence efficiency and thermal stability of small imidazole architect 2-(1, 4,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Photobiology A: Chemistry, 2018, 365, 232-237.	3.9	10
43	A facile sonochemical assisted synthesis of Î±-MnMoO 4 /PANI nanocomposite electrode for supercapacitor applications. Journal of Electroanalytical Chemistry, 2017, 797, 78-88.	3.8	102
44	Preparation and characterization of activated carbon derived from the Borassus flabellifer flower as an electrode material for supercapacitor applications. New Journal of Chemistry, 2017, 41, 3939-3949.	2.8	119
45	Electro-organic synthesis of 2-(4,5-diphenyl-1H-imidazol-2-yl)phenol in Aqueous medium for organic monomer based Supercapacitor electrode. Electrochimica Acta, 2017, 251, 32-42.	5.2	19
46	Aloe vera (L.) Burm.f. extract reduced graphene oxide for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2017, 28, 16648-16657.	2.2	22
47	Electrochemical Detection of Norepinephrine Using Sponge-like Co3O4 Modified Screen Printed Carbon Electrod. International Journal of Electrochemical Science, 2017, , 10524-10533.	1.3	3