Kabir Ko Oyedotun

List of Publications by Year
in descending order

55 papers	1,466 citations	279487 23 h-index	329751 37 g-index
56 all docs	56 docs citations	56 times ranked	1366 citing authors

#	Article	IF	Citations
1	Hydrothermal synthesis of manganese phosphate/graphene foam composite for electrochemical supercapacitor applications. Journal of Colloid and Interface Science, 2017, 494, 325-337.	5.0	98
2	Nickel-cobalt phosphate/graphene foam as enhanced electrode for hybrid supercapacitor. Composites Part B: Engineering, 2019, 174, 106953.	5.9	95
3	A high energy density asymmetric supercapacitor utilizing a nickel phosphate/graphene foam composite as the cathode and carbonized iron cations adsorbed onto polyaniline as the anode. RSC Advances, 2018, 8, 11608-11621.	1.7	90
4	Synthesis and characterization of porous carbon derived from activated banana peels with hierarchical porosity for improved electrochemical performance. Electrochimica Acta, 2018, 262, 187-196.	2.6	76
5	Synthesis of ternary NiCo-MnO2 nanocomposite and its application as a novel high energy supercapattery device. Chemical Engineering Journal, 2018, 335, 416-433.	6.6	64
6	Cycling and floating performance of symmetric supercapacitor derived from coconut shell biomass. AIP Advances, 2016, 6, .	0.6	58
7	Electrochemical performance of two-dimensional Ti3C2-Mn3O4 nanocomposites and carbonized iron cations for hybrid supercapacitor electrodes. Electrochimica Acta, 2019, 301, 487-499.	2.6	57
8	Comparison of ionic liquid electrolyte to aqueous electrolytes on carbon nanofibres supercapacitor electrode derived from oxygen-functionalized graphene. Chemical Engineering Journal, 2019, 375, 121906.	6.6	45
9	Synthesis of cobalt phosphate-graphene foam material via co-precipitation approach for a positive electrode of an asymmetric supercapacitors device. Journal of Alloys and Compounds, 2020, 818, 153332.	2.8	45
10	High energy and excellent stability asymmetric supercapacitor derived from sulphur-reduced graphene oxide/manganese dioxide composite and activated carbon from peanut shell. Electrochimica Acta, 2020, 353, 136498.	2.6	43
11	Solvothermal synthesis of surfactant free spherical nickel hydroxide/graphene oxide composite for supercapacitor application. Journal of Alloys and Compounds, 2017, 721, 80-91.	2.8	42
12	Electrochemical analysis of Co3(PO4)2Â·4H2O/graphene foam composite for enhanced capacity and long cycle life hybrid asymmetric capacitors. Electrochimica Acta, 2018, 283, 374-384.	2.6	40
13	Examination of High-Porosity Activated Carbon Obtained from Dehydration of White Sugar for Electrochemical Capacitor Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 537-546.	3.2	39
14	Optimization of graphene oxide through various Hummers' methods and comparative reduction using green approach. Diamond and Related Materials, 2021, 117, 108456.	1.8	38
15	Electrochemical properties of asymmetric supercapacitor based on optimized carbon-based nickel-cobalt-manganese ternary hydroxide and sulphur-doped carbonized iron-polyaniline electrodes. Electrochimica Acta, 2020, 334, 135610.	2.6	33
16	Sulphur-reduced graphene oxide composite with improved electrochemical performance for supercapacitor applications. International Journal of Hydrogen Energy, 2020, 45, 13189-13201.	3.8	33
17	Investigation of graphene oxide nanogel and carbon nanorods as electrode for electrochemical supercapacitor. Electrochimica Acta, 2017, 245, 268-278.	2.6	32
18	Enhanced electrochemical response of activated carbon nanostructures from tree-bark biomass waste in polymer-gel active electrolytes. RSC Advances, 2017, 7, 37286-37295.	1.7	31

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19	Synthesis and electrochemical characterization of pseudocapacitive Î±-MoO3 thin film as transparent electrode material in optoelectronic and energy storage devices. Materials Chemistry and Physics, 2021, 264, 124468.	2.0	30
20	High-performance bimetallic Ni-Mn phosphate hybridized with 3-D graphene foam for novel hybrid supercapacitors. Journal of Energy Storage, 2020, 31, 101584.	3.9	29
21	Electrochemical analysis of Naâ€“Ni bimetallic phosphate electrodes for supercapacitor applications. RSC Advances, 2019, 9, 25012-25021.	1.7	26
22	Effect of growth time on solvothermal synthesis of vanadium dioxide for electrochemical supercapacitor application. Materials Chemistry and Physics, 2018, 214, 192-200.	2.0	25
23	Waste chicken bone-derived porous carbon materials as high performance electrode for supercapacitor applications. Journal of Energy Storage, 2022, 51, 104378.	3.9	25
24	Enhanced electrochemical performance of supercapattery derived from sulphur-reduced graphene oxide/cobalt oxide composite and activated carbon from peanut shells. International Journal of Hydrogen Energy, 2020, 45, 33059-33075.	3.8	23
25	Bullet-like microstructured nickel ammonium phosphate/graphene foam composite as positive electrode for asymmetric supercapacitors. RSC Advances, 2020, 10, 16349-16360.	1.7	22
26	Nanoplatelets ammonium nickel-cobalt phosphate graphene foam composite as novel electrode material for hybrid supercapacitors. Journal of Alloys and Compounds, 2021, 883, 160897.	2.8	22
27	Asymmetric supercapacitor based on cobalt hydroxide carbonate/GF composite and a carbonized conductive polymer grafted with iron (C-FP). Journal of Alloys and Compounds, 2018, 769, 376-386.	2.8	21
28	A study of porous carbon structures derived from composite of cross-linked polymers and reduced graphene oxide for supercapacitor applications. Journal of Energy Storage, 2022, 51, 104476.	3.9	21
29	Nanostructured porous carbons with high rate cycling and floating performance for supercapacitor application. AIP Advances, 2018, 8, .	0.6	20
30	Graphene foamâ€“based electrochemical capacitors. Current Opinion in Electrochemistry, 2020, 21, 125-131.	2.5	20
31	Exploring the stability and electronic structure of beryllium and sulphur co-doped graphene: a first principles study. RSC Advances, 2016, 6, 88392-88402.	1.7	19
32	Preparation and physico-chemical investigation of anatase TiO2 nanotubes for a stable anode of lithium-ion battery. Energy Reports, 2020, 6, 92-101.	2.5	19
33	High-Energy Asymmetric Supercapacitor Based on the Nickel Cobalt Oxide (NiCo₂O₄) Nanostructure Material and Activated Carbon Derived from Cocoa Pods. Energy & Fuels, 2021, 35, 20309-20319.	2.5	17
34	Deciphering the Structural, Textural, and Electrochemical Properties of Activated BN-Doped Spherical Carbons. Nanomaterials, 2019, 9, 446.	1.9	16
35	High specific energy asymmetric supercapacitor based on alpha-manganese dioxide/activated expanded graphite composite and activated carbon-polyvinyl alcohol. Journal of Energy Storage, 2020, 32, 101797.	3.9	16
36	Hybrid electrochemical supercapacitor based on birnessite-type MnO2/carbon composite as the positive electrode and carbonized iron-polyaniline/nickel graphene foam as a negative electrode. AIP Advances, 2020, 10, .	0.6	16

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37	Effect of growth-time on electrochemical performance of birnessite manganese oxide (Î´-MnO2) as electrodes for supercapacitors: An insight into neutral aqueous electrolytes. Journal of Energy Storage, 2021, 36, 102419.	3.9	16
38	Characterization of sugarcane leaf-biomass and investigation of its efficiency in removing Nickel(II), Chromium(III) and Cobalt(II) ions from polluted water. Surfaces and Interfaces, 2020, 20, 100621.	1.5	14
39	Preparation and Surface Characterization of Nanostructured MoO3/CoxOy and V2O5/CoxOy Interfacial Layers as Transparent Oxide Structures for Photoabsorption. Journal of Electronic Materials, 2020, 49, 3837-3848.	1.0	13
40	Enhancing the electrochemicalÂproperties of a nickelâ€“cobalt-manganese ternary hydroxide electrode using graphene foam for supercapacitors applications. Materials for Renewable and Sustainable Energy, 2021, 10, 1.	1.5	10
41	Single solid source precursor route to the synthesis of MOCVD Cu-Cd-S thin films. Materials Research Express, 2019, 6, 106442.	0.8	9
42	A study of <scp>Coâ€Mn</scp> phosphate supported with graphene foam as promising electrode materials for future electrochemical capacitors. International Journal of Energy Research, 2022, 46, 3080-3094.	2.2	9
43	Synthesis and surface characterization of electrodeposited quaternary chalcogenide $$\hbox {Cu}_{2}\hbox {Zn}_{x}\hbox {Sn}_{y}\hbox {S}_{1+x+2y}$$ thin film as transparent contact electrode. Bulletin of Materials Science, 2020, 43, 1.	0.8	8
44	Effect of neutral electrolytes on vanadium dioxide microspheres-based electrode materials for asymmetric supercapacitors. Journal of Energy Storage, 2021, 43, 103294.	3.9	8
45	Recycling of biomass wastes from amarula husk by a modified facile economical water salt method for high energy density ultracapacitor application. Journal of Energy Storage, 2022, 53, 105166.	3.9	8
46	Characterization of two-way fabricated hybrid metal-oxide nanostructured electrode materials for photovoltaic and miniaturized supercapacitor applications. Solid State Sciences, 2021, 119, 106699.	1.5	6
47	Fabrication and Characterization of Clay-Polyethylene Composite Opted for Shielding of Ionizing Radiation. Crystals, 2021, 11, 1068.	1.0	6
48	Metal-organic chemical vapour deposition of lithium manganese oxide thin films via single solid source precursor. Materials Science-Poland, 2015, 33, 725-731.	0.4	5
49	Green and scalable synthesis of 3D porous carbons microstructures as electrode materials for high rate capability supercapacitors. RSC Advances, 2018, 8, 40950-40961.	1.7	4
50	Microstructural and porosimetry analysis of Ag-TiO₂ intercalated kaolin and diatomite as nanocomposite ceramic materials. Clay Minerals, 2018, 53, 665-674.	0.2	3
51	Some Properties of Manganese Oxide (Mn-O) and Lithium Manganese Oxide (Li-Mn-O) Thin Films Prepared via Metal Organic Chemical Vapor Deposition (MOCVD) Technique. Journal of Materials Science and Engineering B, 2015, 5, .	0.2	0
52	Synthesis of Ternary Nico-MnO2 Nanocomposite and Its Application As a Novel High Energy Supercapattery Device. ECS Meeting Abstracts, 2018, , .	0.0	0
53	Effect of Carbon Doping of Nickel-Cobalt-Manganese Triple Hydroxides (NiCoMn-TH) on Its Electrochemical Capacitive Performance in Aqueous Electrolyte. ECS Meeting Abstracts, 2019, , .	0.0	0
54	Influence of Ionic Liquid Electrolyte on Carbon Nanofibres Derived from Oxygen-Functionalized-Graphene for Novel Supercapacitors Electrode. ECS Meeting Abstracts, 2019, , .	0.0	0

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55	Examination of High Porosity Activated Carbon Obtained from Dehydration of White Sugar (ASC) for Electrochemical Capacitor Applications. ECS Meeting Abstracts, 2019, , .	0.0	0