

# Kabir Ko Oyedotun

## List of Publications by Citations

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48  
papers

773  
citations

17  
h-index

26  
g-index

56  
ext. papers

1,084  
ext. citations

5.4  
avg, IF

4.67  
L-index

#	Paper	IF	Citations
48	Hydrothermal synthesis of manganese phosphate/graphene foam composite for electrochemical supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 494, 325-337	9.3	67
47	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.. <i>RSC Advances</i> , <b>2018</b> , 8, 11608-11621	3.7	52
46	Synthesis and characterization of porous carbon derived from activated banana peels with hierarchical porosity for improved electrochemical performance. <i>Electrochimica Acta</i> , <b>2018</b> , 262, 187-196	6.7	51
45	Nickel-cobalt phosphate/graphene foam as enhanced electrode for hybrid supercapacitor. <i>Composites Part B: Engineering</i> , <b>2019</b> , 174, 106953	10	46
44	Synthesis of ternary NiCo-MnO <sub>2</sub> nanocomposite and its application as a novel high energy supercapattery device. <i>Chemical Engineering Journal</i> , <b>2018</b> , 335, 416-433	14.7	44
43	Cycling and floating performance of symmetric supercapacitor derived from coconut shell biomass. <i>AIP Advances</i> , <b>2016</b> , 6, 115306	1.5	44
42	Electrochemical performance of two-dimensional Ti <sub>3</sub> C <sub>2</sub> -Mn <sub>3</sub> O <sub>4</sub> nanocomposites and carbonized iron cations for hybrid supercapacitor electrodes. <i>Electrochimica Acta</i> , <b>2019</b> , 301, 487-499	6.7	38
41	Solvothermal synthesis of surfactant free spherical nickel hydroxide/graphene oxide composite for supercapacitor application. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 721, 80-91	5.7	32
40	Comparison of ionic liquid electrolyte to aqueous electrolytes on carbon nanofibres supercapacitor electrode derived from oxygen-functionalized graphene. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121906	14.7	27
39	Investigation of graphene oxide nanogel and carbon nanorods as electrode for electrochemical supercapacitor. <i>Electrochimica Acta</i> , <b>2017</b> , 245, 268-278	6.7	26
38	Examination of High-Porosity Activated Carbon Obtained from Dehydration of White Sugar for Electrochemical Capacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 537-546	8.3	26
37	High energy and excellent stability asymmetric supercapacitor derived from sulphur-reduced graphene oxide/manganese dioxide composite and activated carbon from peanut shell. <i>Electrochimica Acta</i> , <b>2020</b> , 353, 136498	6.7	23
36	Synthesis of cobalt phosphate-graphene foam material via co-precipitation approach for a positive electrode of an asymmetric supercapacitors device. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 818, 153332	5.7	23
35	Enhanced electrochemical response of activated carbon nanostructures from tree-bark biomass waste in polymer-gel active electrolytes. <i>RSC Advances</i> , <b>2017</b> , 7, 37286-37295	3.7	22
34	Electrochemical analysis of Co <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ·4H <sub>2</sub> O/graphene foam composite for enhanced capacity and long cycle life hybrid asymmetric capacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 374-384	6.7	22
33	Electrochemical properties of asymmetric supercapacitor based on optimized carbon-based nickel-cobalt-manganese ternary hydroxide and sulphur-doped carbonized iron-polyaniline electrodes. <i>Electrochimica Acta</i> , <b>2020</b> , 334, 135610	6.7	19
32	Exploring the stability and electronic structure of beryllium and sulphur co-doped graphene: a first principles study. <i>RSC Advances</i> , <b>2016</b> , 6, 88392-88402	3.7	17

31	Asymmetric supercapacitor based on cobalt hydroxide carbonate/GF composite and a carbonized conductive polymer grafted with iron (C-FP). <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 376-386	5.7	15
30	Effect of growth time on solvothermal synthesis of vanadium dioxide for electrochemical supercapacitor application. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 214, 192-200	4.4	14
29	Preparation and physico-chemical investigation of anatase TiO <sub>2</sub> nanotubes for a stable anode of lithium-ion battery. <i>Energy Reports</i> , <b>2020</b> , 6, 92-101	4.6	13
28	Sulphur-reduced graphene oxide composite with improved electrochemical performance for supercapacitor applications. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 13189-13201	6.7	13
27	Nanostructured porous carbons with high rate cycling and floating performance for supercapacitor application. <i>AIP Advances</i> , <b>2018</b> , 8, 055208	1.5	13
26	Enhanced electrochemical performance of supercapattery derived from sulphur-reduced graphene oxide/cobalt oxide composite and activated carbon from peanut shells. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 33059-33075	6.7	11
25	High-performance bimetallic Ni-Mn phosphate hybridized with 3-D graphene foam for novel hybrid supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101584	7.8	10
24	Hybrid electrochemical supercapacitor based on birnessite-type MnO <sub>2</sub> /carbon composite as the positive electrode and carbonized iron-polyaniline/nickel graphene foam as a negative electrode. <i>AIP Advances</i> , <b>2020</b> , 10, 065113	1.5	9
23	Graphene foamBased electrochemical capacitors. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 21, 125-131	7.2	9
22	Optimization of graphene oxide through various HummersVn methods and comparative reduction using green approach. <i>Diamond and Related Materials</i> , <b>2021</b> , 117, 108456	3.5	9
21	Electrochemical analysis of Na-Ni bimetallic phosphate electrodes for supercapacitor applications.. <i>RSC Advances</i> , <b>2019</b> , 9, 25012-25021	3.7	8
20	High specific energy asymmetric supercapacitor based on alpha-manganese dioxide/activated expanded graphite composite and activated carbon-polyvinyl alcohol. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101797	7.8	8
19	Synthesis and electrochemical characterization of pseudocapacitive $\beta$ -MoO <sub>3</sub> thin film as transparent electrode material in optoelectronic and energy storage devices. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 264, 124468	4.4	8
18	Deciphering the Structural, Textural, and Electrochemical Properties of Activated BN-Doped Spherical Carbons. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	7
17	Preparation and Surface Characterization of Nanostructured MoO <sub>3</sub> /CoxOy and V <sub>2</sub> O <sub>5</sub> /CoxOy Interfacial Layers as Transparent Oxide Structures for Photoabsorption. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 3837-3848	1.9	7
16	Effect of growth-time on electrochemical performance of birnessite manganese oxide ( $\beta$ -MnO <sub>2</sub> ) as electrodes for supercapacitors: An insight into neutral aqueous electrolytes. <i>Journal of Energy Storage</i> , <b>2021</b> , 36, 102419	7.8	6
15	Synthesis and surface characterization of electrodeposited quaternary chalcogenide ( $\text{hbox}\{Cu\}_{2}\text{hbox}\{Zn\}_{x}\text{hbox}\{Sn\}_{y}\text{hbox}\{S\}_{1+x+2y}$ ) thin film as transparent contact electrode. <i>Bulletin of Materials Science</i> , <b>2020</b> , 43, 1	1.7	5
14	Bullet-like microstructured nickel ammonium phosphate/graphene foam composite as positive electrode for asymmetric supercapacitors.. <i>RSC Advances</i> , <b>2020</b> , 10, 16349-16360	3.7	5

13	Single solid source precursor route to the synthesis of MOCVD Cu-Cd-S thin films. <i>Materials Research Express</i> , <b>2019</b> , 6, 106442	1.7	5
12	Metal-organic chemical vapour deposition of lithium manganese oxide thin films via single solid source precursor. <i>Materials Science-Poland</i> , <b>2015</b> , 33, 725-731	0.6	4
11	High-Energy Asymmetric Supercapacitor Based on the Nickel Cobalt Oxide (NiCo <sub>2</sub> O <sub>4</sub> ) Nanostructure Material and Activated Carbon Derived from Cocoa Pods. <i>Energy &amp; Fuels</i> ,	4.1	3
10	Characterization of sugarcane leaf-biomass and investigation of its efficiency in removing Nickel(II), Chromium(III) and Cobalt(II) ions from polluted water. <i>Surfaces and Interfaces</i> , <b>2020</b> , 20, 100621	4.1	3
9	Microstructural and porosimetry analysis of Ag-TiO <sub>2</sub> intercalated kaolin and diatomite as nanocomposite ceramic materials. <i>Clay Minerals</i> , <b>2018</b> , 53, 665-674	1.3	2
8	Nanoplatelets ammonium nickel-cobalt phosphate graphene foam composite as novel electrode material for hybrid supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 883, 160897	5.7	2
7	Green and scalable synthesis of 3D porous carbons microstructures as electrode materials for high rate capability supercapacitors.. <i>RSC Advances</i> , <b>2018</b> , 8, 40950-40961	3.7	1
6	Characterization of two-way fabricated hybrid metal-oxide nanostructured electrode materials for photovoltaic and miniaturized supercapacitor applications. <i>Solid State Sciences</i> , <b>2021</b> , 119, 106699	3.4	1
5	Waste chicken bone-derived porous carbon materials as high performance electrode for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2022</b> , 51, 104378	7.8	1
4	Effect of neutral electrolytes on vanadium dioxide microspheres-based electrode materials for asymmetric supercapacitors. <i>Journal of Energy Storage</i> , <b>2021</b> , 43, 103294	7.8	0
3	Enhancing the electrochemical properties of a nickel-cobalt-manganese ternary hydroxide electrode using graphene foam for supercapacitors applications. <i>Materials for Renewable and Sustainable Energy</i> , <b>2021</b> , 10, 1	4.7	0
2	Fabrication and Characterization of Clay-Polyethylene Composite Opted for Shielding of Ionizing Radiation. <i>Crystals</i> , <b>2021</b> , 11, 1068	2.3	0
1	A study of porous carbon structures derived from composite of cross-linked polymers and reduced graphene oxide for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2022</b> , 51, 104476	7.8	0