

Abdulhakeem Bello

List of Publications by Year in descending order

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86
papers

3,099
citations

117625

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54
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86
all docs

86
docs citations

86
times ranked

4404
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of the synthetic methods and properties of graphenes. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 054502.	6.1	164
2	Renewable pine cone biomass derived carbon materials for supercapacitor application. <i>RSC Advances</i> , 2016, 6, 1800-1809.	3.6	156
3	Symmetric supercapacitors based on porous 3D interconnected carbon framework. <i>Electrochimica Acta</i> , 2015, 151, 386-392.	5.2	118
4	Asymmetric supercapacitor based on VS ₂ nanosheets and activated carbon materials. <i>RSC Advances</i> , 2016, 6, 38990-39000.	3.6	109
5	Chemical adsorption of NiO nanostructures on nickel foam-graphene for supercapacitor applications. <i>Journal of Materials Science</i> , 2013, 48, 6707-6712.	3.7	102
6	Hydrothermal synthesis of manganese phosphate/graphene foam composite for electrochemical supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , 2017, 494, 325-337.	9.4	98
7	High performance asymmetric supercapacitor based on molybdenum disulphide/graphene foam and activated carbon from expanded graphite. <i>Journal of Colloid and Interface Science</i> , 2017, 488, 155-165.	9.4	97
8	Nickel-cobalt phosphate/graphene foam as enhanced electrode for hybrid supercapacitor. <i>Composites Part B: Engineering</i> , 2019, 174, 106953.	12.0	95
9	Inkjet-printed graphene electrodes for dye-sensitized solar cells. <i>Carbon</i> , 2016, 105, 33-41.	10.3	94
10	High-performance symmetric electrochemical capacitor based on graphene foam and nanostructured manganese oxide. <i>AIP Advances</i> , 2013, 3, .	1.3	86
11	Preparation and characterization of porous carbon from expanded graphite for high energy density supercapacitor in aqueous electrolyte. <i>Journal of Power Sources</i> , 2016, 309, 245-253.	7.8	85
12	Activated carbon derived from tree bark biomass with promising material properties for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 859-872.	2.5	84
13	Investigation of different aqueous electrolytes on the electrochemical performance of activated carbon-based supercapacitors. <i>RSC Advances</i> , 2015, 5, 107482-107487.	3.6	83
14	Asymmetric supercapacitor based on activated expanded graphite and pinecone tree activated carbon with excellent stability. <i>Applied Energy</i> , 2017, 207, 417-426.	10.1	68
15	Coniferous pine biomass: A novel insight into sustainable carbon materials for supercapacitors electrode. <i>Materials Chemistry and Physics</i> , 2016, 182, 139-147.	4.0	67
16	Asymmetric supercapacitor based on nanostructured graphene foam/polyvinyl alcohol/formaldehyde and activated carbon electrodes. <i>Journal of Power Sources</i> , 2015, 273, 305-311.	7.8	66
17	Preparation and characterization of poly(vinyl alcohol)/graphene nanofibers synthesized by electrospinning. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 77, 139-145.	4.0	62
18	Silver nanoparticles decorated on a three-dimensional graphene scaffold for electrochemical applications. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 109-114.	4.0	59

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19	Asymmetric supercapacitor based on an $\text{Ni}_3\text{MoO}_{10}$ cathode and porous activated carbon anode materials. RSC Advances, 2015, 5, 37462-37468.	3.6	59
20	Cycling and floating performance of symmetric supercapacitor derived from coconut shell biomass. AIP Advances, 2016, 6, .	1.3	58
21	Stability studies of polypyrrole- derived carbon based symmetric supercapacitor via potentiostatic floating test. Electrochimica Acta, 2016, 213, 107-114.	5.2	56
22	Microwave assisted synthesis of MnO_2 on nickel foam-graphene for electrochemical capacitor. Electrochimica Acta, 2013, 114, 48-53.	5.2	51
23	Pulsed laser deposited Cr_2O_3 nanostructured thin film on graphene as anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2015, 637, 219-225.	5.5	49
24	High electrochemical performance of hierarchical porous activated carbon derived from lightweight cork (<i>Quercus suber</i>). Journal of Materials Science, 2017, 52, 10600-10613.	3.7	47
25	Synthesis of 3D porous carbon based on cheap polymers and graphene foam for high-performance electrochemical capacitors. Electrochimica Acta, 2015, 180, 442-450.	5.2	45
26	Silicene and transition metal based materials: prediction of a two-dimensional piezomagnet. Journal of Physics Condensed Matter, 2010, 22, 375502.	1.8	43
27	Morphological characterization and impedance spectroscopy study of porous 3D carbons based on graphene foam-PVA/phenol-formaldehyde resin composite as an electrode material for supercapacitors. RSC Advances, 2014, 4, 39066.	3.6	42
28	Effect of conductive additives to gel electrolytes on activated carbon-based supercapacitors. AIP Advances, 2015, 5, .	1.3	42
29	Stable ionic-liquid-based symmetric supercapacitors from Capsicum seed-porous carbons. Journal of Electroanalytical Chemistry, 2019, 838, 119-128.	3.8	42
30	Solvothermal synthesis of surfactant free spherical nickel hydroxide/graphene oxide composite for supercapacitor application. Journal of Alloys and Compounds, 2017, 721, 80-91.	5.5	42
31	Simonkolleite-graphene foam composites and their superior electrochemical performance. Electrochimica Acta, 2015, 151, 591-598.	5.2	40
32	Graphene: Synthesis, Transfer, and Characterization for Dye-Sensitized Solar Cells Applications. Industrial & Engineering Chemistry Research, 2013, 52, 14160-14168.	3.7	38
33	Preparation and electrochemical investigation of the cobalt hydroxide carbonate/activated carbon nanocomposite for supercapacitor applications. Journal of Physics and Chemistry of Solids, 2016, 88, 60-67.	4.0	37
34	A facile hydrothermal reflux synthesis of $\text{Ni}(\text{OH})_2/\text{GF}$ electrode for supercapacitor application. Journal of Materials Science, 2016, 51, 6041-6050.	3.7	36
35	Electrochemical performance of polypyrrole derived porous activated carbon-based symmetric supercapacitors in various electrolytes. RSC Advances, 2016, 6, 68141-68149.	3.6	35
36	Microwave synthesis: Characterization and electrochemical properties of amorphous activated carbon- MnO_2 nanocomposite electrodes. Journal of Alloys and Compounds, 2016, 681, 293-300.	5.5	35

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37	Investigation of graphene oxide nanogel and carbon nanorods as electrode for electrochemical supercapacitor. <i>Electrochimica Acta</i> , 2017, 245, 268-278.	5.2	32
38	Enhanced electrochemical response of activated carbon nanostructures from tree-bark biomass waste in polymer-gel active electrolytes. <i>RSC Advances</i> , 2017, 7, 37286-37295.	3.6	31
39	Functionalized graphene foam as electrode for improved electrochemical storage. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2359-2365.	2.5	30
40	Modified Activation Process for Supercapacitor Electrode Materials from African Maize Cob. <i>Materials</i> , 2020, 13, 5412.	2.9	28
41	Hydrothermal synthesis of simonkolleite microplatelets on nickel foam-graphene for electrochemical supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2879-2886.	2.5	27
42	P3HT:PCBM/nickel-aluminum layered double hydroxide-graphene foam composites for supercapacitor electrodes. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 445-452.	2.5	26
43	Influence of K ₃ Fe(CN) ₆ on the electrochemical performance of carbon derived from waste tyres by K ₂ CO ₃ activation. <i>Materials Chemistry and Physics</i> , 2018, 209, 262-270.	4.0	26
44	Electrochemical analysis of nanoporous carbons derived from activation of polypyrrole for stable supercapacitors. <i>Journal of Materials Science</i> , 2018, 53, 5229-5241.	3.7	26
45	High electrochemical performance of hybrid cobalt oxyhydroxide/nickel foam graphene. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 77-85.	9.4	25
46	Processing of γ -Fe ₂ O ₃ Nanoparticles on Activated Carbon Cloth as Binder-Free Electrode Material for Supercapacitor Energy Storage. <i>Journal of Energy Storage</i> , 2021, 33, 102042.	8.1	24
47	Effect of addition of different carbon materials on hydrogel derived carbon material for high performance electrochemical capacitors. <i>Electrochimica Acta</i> , 2015, 186, 277-284.	5.2	23
48	Effect of growth time of hydrothermally grown cobalt hydroxide carbonate on its supercapacitive performance. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 94, 17-24.	4.0	23
49	Polypyrrole/graphene nanocomposite: High conductivity and low percolation threshold. <i>Synthetic Metals</i> , 2014, 198, 101-106.	3.9	20
50	Gas sensing study of hydrothermal reflux synthesized NiO/graphene foam electrode for CO sensing. <i>Journal of Materials Science</i> , 2017, 52, 2035-2044.	3.7	20
51	Asymmetric Carbon Supercapacitor with Activated Expanded Graphite as Cathode and Pinecone Tree Activated Carbon as Anode Materials. <i>Energy Procedia</i> , 2017, 105, 4098-4103.	1.8	20
52	Exploring the stability and electronic structure of beryllium and sulphur co-doped graphene: a first principles study. <i>RSC Advances</i> , 2016, 6, 88392-88402.	3.6	19
53	Effect of activated carbon on the enhancement of CO sensing performance of NiO. <i>Journal of Alloys and Compounds</i> , 2017, 694, 155-162.	5.5	19
54	Raman analysis of bilayer graphene film prepared on commercial Cu(0.5 at% Ni) foil. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 553-559.	2.5	15

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55	Transformation of Plant Biomass Waste into Resourceful Activated Carbon Nanostructures for Mixed-Assembly Type Electrochemical Capacitors. <i>Waste and Biomass Valorization</i> , 2019, 10, 1741-1753.	3.4	15
56	Porous carbon from Manihot Esculenta (cassava) peels waste for charge storage applications. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100098.	5.6	14
57	Growth of graphene underlayers by chemical vapor deposition. <i>AIP Advances</i> , 2013, 3, .	1.3	13
58	Solvothermal synthesis of NiAl double hydroxide microspheres on a nickel foam-graphene as an electrode material for pseudo-capacitors. <i>AIP Advances</i> , 2014, 4, 097122.	1.3	13
59	Tuning the Nanoporous Structure of Carbons Derived from the Composite of Cross-Linked Polymers for Charge Storage Applications. <i>ACS Applied Energy Materials</i> , 2021, 4, 1763-1773.	5.1	13
60	Electrochemical Studies of Microwave Synthesised Bimetallic Sulfides Nanostructures As Faradaic Electrodes.. <i>Electrochimica Acta</i> , 2015, 174, 778-786.	5.2	12
61	Microwave-assisted synthesis of cobalt sulphide nanoparticle clusters on activated graphene foam for electrochemical supercapacitors. <i>RSC Advances</i> , 2017, 7, 20231-20240.	3.6	11
62	A dilute Cu(Ni) alloy for synthesis of large-area Bernal stacked bilayer graphene using atmospheric pressure chemical vapour deposition. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	8
63	A study of the effects of a thermally evaporated nanoscale CsBr layer on the optoelectronic properties and stability of formamidinium-rich perovskite solar cells. <i>AIP Advances</i> , 2021, 11, 095112.	1.3	8
64	A wafer-scale Bernal-stacked bilayer graphene film obtained on a dilute Cu (0.61 at% Ni) foil using atmospheric pressure chemical vapour deposition. <i>RSC Advances</i> , 2016, 6, 28370-28378.	3.6	7
65	Three dimensional modelling of the components in supercapacitors for proper understanding of the contribution of each parameter to the final electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17481-17487.	10.3	6
66	Tuning the electronic structure and thermodynamic properties of hybrid graphene-hexagonal boron nitride monolayer. <i>FlatChem</i> , 2020, 24, 100194.	5.6	6
67	Valorization of granite micronized stones wastes for eco-friendly production of fired clay bricks. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	6
68	Tin Oxide Modified Titanium Dioxide as Electron Transport Layer in Formamidinium-Rich Perovskite Solar Cells. <i>Energies</i> , 2021, 14, 7870.	3.1	6
69	Effects of temperature-dependent burn-in decay on the performance of triple cation mixed halide perovskite solar cells. <i>AIP Advances</i> , 2022, 12, 015122.	1.3	6
70	Nanostructured Metal Oxides for Supercapacitor Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 247-303.	0.5	5
71	Recent advances in solar energy harvesting materials with particular emphasis on photovoltaic materials. , 2019, , .		5
72	Raman spectroscopy and imaging of Bernalâ€stacked bilayer graphene synthesized on copper foil by chemical vapour deposition: growth dependence on temperature. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 639-646.	2.5	4

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73	Green and scalable synthesis of 3D porous carbons microstructures as electrode materials for high rate capability supercapacitors. RSC Advances, 2018, 8, 40950-40961.	3.6	4
74	Combustion synthesis of battery-type positive electrodes for robust aqueous hybrid supercapacitor. Journal of Energy Storage, 2020, 27, 101160.	8.1	4
75	Floating of PPY Derived Carbon Based Symmetric Supercapacitor in Alkaline Electrolyte. ECS Transactions, 2017, 75, 1-12.	0.5	3
76	Effect of radiation on the performance of activated carbon base supercapacitor: Part I. Influence of microwave irradiation exposure on electrodes material. Energy Procedia, 2019, 158, 4554-4559.	1.8	3
77	The role of hafnium acetylacetonate buffer layer on the performance of lead halide perovskite solar cells derived from dehydrated lead acetate as Pb source. AIP Advances, 2020, 10, .	1.3	1
78	Failure Mechanisms of Stretchable Perovskite Light-Emitting Devices under Monotonic and Cyclic Deformations. Macromolecular Materials and Engineering, 2021, 306, 2100435.	3.6	1
79	Effect of Absorber Layer Thickness on the Performance of Bismuth-Based Perovskite Solar Cells. Semiconductors, 2021, 55, 922-927.	0.5	1
80	Cycling Performance of Ppy Derived Carbon Based Symmetric Supercapacitors in Aqueous Electrolyte. ECS Meeting Abstracts, 2016, , .	0.0	0
81	Activated Carbon Derived from Tree Bark Biomass for High Performance Electrochemical Capacitors. ECS Meeting Abstracts, 2016, , .	0.0	0
82	Transformation of Plant Biomass Waste into Resourceful Activated Carbon Materials for Mixed-Assembly Type Electrochemical Capacitors. ECS Meeting Abstracts, 2017, , .	0.0	0
83	Solvothermal Preparation of Microspherical Flowerlike Ni(OH) ₂ /Graphene Oxide Electrode for Electrochemical Capacitor Application. ECS Meeting Abstracts, 2017, , .	0.0	0
84	Carbon Monoxide Gas Sensing Study Using Hydrothermally Prepared NiO/Graphene Nanosheets Electrode. ECS Meeting Abstracts, 2017, , .	0.0	0
85	Graphene-Based Electrode Materials for Supercapacitor Applications. , 2019, , 101-130.		0
86	Mechanical properties of polyvinylpyrrolidone/polyvinyl alcohol-based solid electrolytes. Journal of Applied Polymer Science, 2022, 139, .	2.6	0