

# Ncholu Manyala

## List of Publications by Citations

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164  
papers

4,173  
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38  
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179  
ext. papers

5,032  
ext. citations

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L-index

#	Paper	IF	Citations
164	Magnetoresistance from quantum interference effects in ferromagnets. <i>Nature</i> , <b>2000</b> , 404, 581-4	50.4	188
163	Large anomalous Hall effect in a silicon-based magnetic semiconductor. <i>Nature Materials</i> , <b>2004</b> , 3, 255-627	62.7	175
162	Renewable pine cone biomass derived carbon materials for supercapacitor application. <i>RSC Advances</i> , <b>2016</b> , 6, 1800-1809	3.7	117
161	Symmetric supercapacitors based on porous 3D interconnected carbon framework. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 386-392	6.7	103
160	Microwave-assisted synthesis of high-voltage nanostructured LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> spinel: tuning the Mn <sup>3+</sup> content and electrochemical performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 7592-89.5	9.5	99
159	Chemical adsorption of NiO nanostructures on nickel foam-graphene for supercapacitor applications. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 6707-6712	4.3	88
158	Asymmetric supercapacitor based on VS <sub>2</sub> nanosheets and activated carbon materials. <i>RSC Advances</i> , <b>2016</b> , 6, 38990-39000	3.7	81
157	Manganese oxide/graphene oxide composites for high-energy aqueous asymmetric electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2013</b> , 110, 228-233	6.7	77
156	High-performance symmetric electrochemical capacitor based on graphene foam and nanostructured manganese oxide. <i>AIP Advances</i> , <b>2013</b> , 3, 082118	1.5	73
155	Simonkolleite nano-platelets: Synthesis and temperature effect on hydrogen gas sensing properties. <i>Applied Surface Science</i> , <b>2012</b> , 258, 7839-7843	6.7	72
154	High performance asymmetric supercapacitor based on molybdenum disulphide/graphene foam and activated carbon from expanded graphite. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 488, 155-165.3	9.3	71
153	Preparation and characterization of porous carbon from expanded graphite for high energy density supercapacitor in aqueous electrolyte. <i>Journal of Power Sources</i> , <b>2016</b> , 309, 245-253	8.9	70
152	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
151	Doping a semiconductor to create an unconventional metal. <i>Nature</i> , <b>2008</b> , 454, 976-80	50.4	67
150	Investigation of different aqueous electrolytes on the electrochemical performance of activated carbon-based supercapacitors. <i>RSC Advances</i> , <b>2015</b> , 5, 107482-107487	3.7	66
149	Structural and optical properties of nano-structured tungsten-doped ZnO thin films grown by pulsed laser deposition. <i>Applied Surface Science</i> , <b>2009</b> , 255, 4153-4158	6.7	64
148	Activated carbon derived from tree bark biomass with promising material properties for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 859-872	2.6	63

147	Asymmetric supercapacitor based on nanostructured graphene foam/polyvinyl alcohol/formaldehyde and activated carbon electrodes. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 305-311	8.9	59
146	Asymmetric supercapacitor based on activated expanded graphite and pinecone tree activated carbon with excellent stability. <i>Applied Energy</i> , <b>2017</b> , 207, 417-426	10.7	58
145	Thermochromic nanocrystalline Au/VO <sub>2</sub> composite thin films prepared by radiofrequency inverted cylindrical magnetron sputtering. <i>Thin Solid Films</i> , <b>2010</b> , 518, 1641-1647	2.2	54
144	High performance asymmetric supercapacitor based on CoAl-LDH/GF and activated carbon from expanded graphite. <i>RSC Advances</i> , <b>2016</b> , 6, 46723-46732	3.7	54
143	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
142	Silver nanoparticles decorated on a three-dimensional graphene scaffold for electrochemical applications. <i>Journal of Physics and Chemistry of Solids</i> , <b>2014</b> , 75, 109-114	3.9	52
141	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
140	Thermochromic VO <sub>2</sub> thin films synthesized by rf-inverted cylindrical magnetron sputtering. <i>Applied Surface Science</i> , <b>2008</b> , 254, 3959-3963	6.7	51
139	Synthesis and electrochemical investigation of spinel cobalt ferrite magnetic nanoparticles for supercapacitor application. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 835-847	2.6	50
138	Asymmetric supercapacitor based on vanadium disulfide nanosheets as a cathode and carbonized iron cations adsorbed onto polyaniline as an anode. <i>Electrochimica Acta</i> , <b>2018</b> , 260, 11-23	6.7	50
137	Asymmetric supercapacitor based on an HMoO <sub>3</sub> cathode and porous activated carbon anode materials. <i>RSC Advances</i> , <b>2015</b> , 5, 37462-37468	3.7	47
136	Preparation and characterization of poly(vinyl alcohol)/graphene nanofibers synthesized by electrospinning. <i>Journal of Physics and Chemistry of Solids</i> , <b>2015</b> , 77, 139-145	3.9	47
135	Nickel-cobalt phosphate/graphene foam as enhanced electrode for hybrid supercapacitor. <i>Composites Part B: Engineering</i> , <b>2019</b> , 174, 106953	10	46
134	Stability studies of polypyrrole- derived carbon based symmetric supercapacitor via potentiostatic floating test. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 107-114	6.7	45
133	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
132	Microwave assisted synthesis of MnO <sub>2</sub> on nickel foam-graphene for electrochemical capacitor. <i>Electrochimica Acta</i> , <b>2013</b> , 114, 48-53	6.7	44
131	Cycling and floating performance of symmetric supercapacitor derived from coconut shell biomass. <i>AIP Advances</i> , <b>2016</b> , 6, 115306	1.5	44
130	Coniferous pine biomass: A novel insight into sustainable carbon materials for supercapacitors electrode. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 182, 139-147	4.4	43

129	Effect of porosity enhancing agents on the electrochemical performance of high-energy ultracapacitor electrodes derived from peanut shell waste. <i>Scientific Reports</i> , <b>2019</b> , 9, 13673	4.9	39
128	Pulsed laser deposited Cr <sub>2</sub> O <sub>3</sub> nanostructured thin film on graphene as anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 637, 219-225	5.7	39
127	High performance hybrid supercapacitor device based on cobalt manganese layered double hydroxide and activated carbon derived from cork (Quercus Suber). <i>Electrochimica Acta</i> , <b>2017</b> , 252, 41-54	6.7	39
126	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
125	Symmetric supercapacitor with supercapattery behavior based on carbonized iron cations adsorbed onto polyaniline. <i>Electrochimica Acta</i> , <b>2018</b> , 262, 82-96	6.7	38
124	Synthesis of 3D porous carbon based on cheap polymers and graphene foam for high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2015</b> , 180, 442-450	6.7	36
123	Simonkolleite-graphene foam composites and their superior electrochemical performance. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 591-598	6.7	36
122	Competitive growth texture of pulsed laser deposited vanadium dioxide nanostructures on a glass substrate. <i>Acta Materialia</i> , <b>2014</b> , 65, 32-41	8.4	36
121	Structural, morphological and photoluminescence properties of W-doped ZnO nanostructures. <i>Applied Surface Science</i> , <b>2009</b> , 255, 7314-7318	6.7	36
120	Three dimensional vanadium pentoxide/graphene foam composite as positive electrode for high performance asymmetric electrochemical supercapacitor. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 395-406	9.3	34
119	Ex-situ nitrogen-doped porous carbons as electrode materials for high performance supercapacitor. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 569, 332-345	9.3	33
118	Effect of conductive additives to gel electrolytes on activated carbon-based supercapacitors. <i>AIP Advances</i> , <b>2015</b> , 5, 097171	1.5	32
117	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
116	Graphene: Synthesis, Transfer, and Characterization for Dye-Sensitized Solar Cells Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 14160-14168	3.9	30
115	Electrochemical performance of polypyrrole derived porous activated carbon-based symmetric supercapacitors in various electrolytes. <i>RSC Advances</i> , <b>2016</b> , 6, 68141-68149	3.7	29
114	A facile hydrothermal reflux synthesis of Ni(OH) <sub>2</sub> /GF electrode for supercapacitor application. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6041-6050	4.3	29
113	Microwave synthesis: Characterization and electrochemical properties of amorphous activated carbon-MnO <sub>2</sub> nanocomposite electrodes. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 681, 293-300	5.7	28
112	High electrochemical performance of hierarchical porous activated carbon derived from lightweight cork (Quercus suber). <i>Journal of Materials Science</i> , <b>2017</b> , 52, 10600-10613	4.3	27

111	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
110	Stable ionic-liquid-based symmetric supercapacitors from Capsicum seed-porous carbons. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 838, 119-128	4.1	27
109	Preparation and electrochemical investigation of the cobalt hydroxide carbonate/activated carbon nanocomposite for supercapacitor applications. <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 88, 60-67	3.9	26
108	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
107	Low-field microwave absorption in pulse laser deposited FeSi thin film. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 1172-1176	2.8	26
106	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
105	Hydrothermal synthesis of simonkolleite microplatelets on nickel foam-graphene for electrochemical supercapacitors. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 2879-2886	2.6	24
104	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
103	Electrochemical analysis of nanoporous carbons derived from activation of polypyrrole for stable supercapacitors. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 5229-5241	4.3	23
102	Functionalized graphene foam as electrode for improved electrochemical storage. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 2359-2365	2.6	23
101	Temperature-dependent growth mode of W-doped ZnO nanostructures. <i>Applied Surface Science</i> , <b>2011</b> , 257, 6226-6232	6.7	23
100	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
99	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
98	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
97	Polypyrrole-Promoted rGO/MoS <sub>2</sub> Nanocomposites for Enhanced Photocatalytic Conversion of CO <sub>2</sub> and H <sub>2</sub> O to CO, CH <sub>4</sub> , and H <sub>2</sub> Products. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9897-9909	6.1	21
96	A systematic study of the stability, electronic and optical properties of beryllium and nitrogen co-doped graphene. <i>Carbon</i> , <b>2018</b> , 129, 207-227	10.4	21
95	High-performance symmetric supercapacitor device based on carbonized iron-polyaniline/nickel graphene foam. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 819, 152993	5.7	20
94	P3HT:PCBM/nickel-aluminum layered double hydroxide-graphene foam composites for supercapacitor electrodes. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 445-452	2.6	19

93	Effect of growth time of hydrothermally grown cobalt hydroxide carbonate on its supercapacitive performance. <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 94, 17-24	3.9	19
92	Microwave Irradiation Controls the Manganese Oxidation States of Nanostructured (Li[Li <sub>0.2</sub> Mn <sub>0.52</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> Al <sub>0.02</sub> ]O <sub>2</sub> ) Layered Cathode Materials for High-Performance Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A768-A773	3.9	19
91	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
90	Electrochemical performance of hybrid supercapacitor device based on birnessite-type manganese oxide decorated on uncapped carbon nanotubes and porous activated carbon nanostructures. <i>Electrochimica Acta</i> , <b>2018</b> , 289, 363-375	6.7	19
89	Polypyrrole/graphene nanocomposite: High conductivity and low percolation threshold. <i>Synthetic Metals</i> , <b>2014</b> , 198, 101-106	3.6	18
88	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
87	Gas sensing study of hydrothermal reflux synthesized NiO/graphene foam electrode for CO sensing. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 2035-2044	4.3	17
86	Nickel-copper graphene foam prepared by atmospheric pressure chemical vapour deposition for supercapacitor applications. <i>Surface and Coatings Technology</i> , <b>2020</b> , 383, 125230	4.4	16
85	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
84	High electrochemical performance of hybrid cobalt oxyhydroxide/nickel foam graphene. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 484, 77-85	9.3	15
83	Pullulan-ionic liquid-based supercapacitor: A novel, smart combination of components for an easy-to-dispose device. <i>Electrochimica Acta</i> , <b>2020</b> , 338, 135872	6.7	14
82	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
81	Raman analysis of bilayer graphene film prepared on commercial Cu(0.5 at% Ni) foil. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 553-559	2.3	14
80	Asymmetric Carbon Supercapacitor with Activated Expanded Graphite as Cathode and Pinecone Tree Activated Carbon as Anode Materials. <i>Energy Procedia</i> , <b>2017</b> , 105, 4098-4103	2.3	14
79	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
78	Influence of K <sub>3</sub> Fe(CN) <sub>6</sub> on the electrochemical performance of carbon derived from waste tyres by K <sub>2</sub> CO <sub>3</sub> activation. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 209, 262-270	4.4	13
77	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
76	Properties of graphite composites based on natural and synthetic graphite powders and a phenolic novolac binder. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 436, 76-83	3.3	13

75	Effect of activated carbon on the enhancement of CO sensing performance of NiO. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 694, 155-162	5.7	13
74	High-performance asymmetric supercapacitor based on vanadium dioxide and carbonized iron-polyaniline electrodes. <i>AIP Advances</i> , <b>2019</b> , 9, 055309	1.5	12
73	Effect of addition of different carbon materials on hydrogel derived carbon material for high performance electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2015</b> , 186, 277-284	6.7	12
72	Solvothermal synthesis of NiAl double hydroxide microspheres on a nickel foam-graphene as an electrode material for pseudo-capacitors. <i>AIP Advances</i> , <b>2014</b> , 4, 097122	1.5	12
71	Photon-induced tunable and reversible wettability of pulsed laser deposited W-doped ZnO nanorods. <i>EPJ Applied Physics</i> , <b>2011</b> , 55, 20501	1.1	12
70	High-performance asymmetric supercapacitor based on vanadium dioxide/activated expanded graphite composite and carbon-vanadium oxynitride nanostructures. <i>Electrochimica Acta</i> , <b>2019</b> , 316, 19-32	6.7	11
69	Electrochemical Studies of Microwave Synthesised Bimetallic Sulfides Nanostructures As Faradaic Electrodes.. <i>Electrochimica Acta</i> , <b>2015</b> , 174, 778-786	6.7	11
68	Growth of graphene underlayers by chemical vapor deposition. <i>AIP Advances</i> , <b>2013</b> , 3, 112126	1.5	11
67	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
66	Synthesis and optimisation of a novel graphene wool material by atmospheric pressure chemical vapour deposition. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 545-564	4.3	11
65	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
64	Preparation of carbon nanofibers/tubes using waste tyres pyrolysis oil and coal fly ash derived catalyst. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2018</b> , 53, 1115-1122	2.3	10
63	Effect of substrate temperature on the structure and the metal insulator transition in pulsed laser deposited V <sub>2</sub> O <sub>5</sub> films on soda lime glass. <i>Journal of Optics (India)</i> , <b>2015</b> , 44, 36-44	1.3	9
62	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
61	Graphene foamBased electrochemical capacitors. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 21, 125-131	7.2	9
60	Structural and magnetic properties of Fe <sub>1-x</sub> CoxSi thin films deposited via pulsed laser deposition. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 232503	3.4	9
59	Pressure-induced quantum phase transition in Fe <sub>1-x</sub> CoxSi (x=0.1,0.2). <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	9
58	Transformation of Plant Biomass Waste into Resourceful Activated Carbon Nanostructures for Mixed-Assembly Type Electrochemical Capacitors. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 1741-1753	3.2	9

57	Electrochemical measurements of 1D/2D/3D Ni-Co bi-phase mesoporous nanohybrids synthesized using free-template hydrothermal method. <i>Electrochimica Acta</i> , <b>2018</b> , 275, 155-171	6.7	8
56	Electrochemical analysis of Na-Ni bimetallic phosphate electrodes for supercapacitor applications. <i>RSC Advances</i> , <b>2019</b> , 9, 25012-25021	3.7	8
55	Characterization of medium-temperature Sasolurgi gasifier coal tar pitch. <i>Fuel</i> , <b>2012</b> , 98, 243-248	7.1	8
54	Nonlinear optical absorption properties of porphyrins confined in Nafion membrane. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 685-689	2.6	8
53	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
52	Synthesis and electrochemical characterization of pseudocapacitive $\text{MoO}_3$ 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
51	Microwave-assisted synthesis of cobalt sulphide nanoparticle clusters on activated graphene foam for electrochemical supercapacitors. <i>RSC Advances</i> , <b>2017</b> , 7, 20231-20240	3.7	7
50	Deciphering the Structural, Textural, and Electrochemical Properties of Activated BN-Doped Spherical Carbons. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	7
49	Preparation and Surface Characterization of Nanostructured $\text{MoO}_3/\text{Co}_x\text{O}_y$ and $\text{V}_2\text{O}_5/\text{Co}_x\text{O}_y$ Interfacial Layers as Transparent Oxide Structures for Photoabsorption. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 3837-3848	1.9	7
48	The influence of plasma dynamics on the growth of $\text{Sm}_{0.55}\text{Nd}_{0.45}\text{NiO}_3$ solid solution during pulsed laser deposition. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 1218-1224	3.9	7
47	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> , <b>2016</b> , 119, 015306	2.5	7
46	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> , <b>2016</b> , 6, 28370-28378	3.7	7
45	Sustainable development of vanadium pentoxide carbon composites derived from Hibiscus sabdariffa family for application in supercapacitors. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4814-4830	5.8	6
44	Characterization of 167 MeV Xe ion irradiated n-type 4H-SiC. <i>Applied Surface Science</i> , <b>2019</b> , 493, 1291-1298	10.8	6
43	Rheological behavior and thermal properties of pitch/poly(vinyl chloride) blends. <i>Carbon</i> , <b>2013</b> , 51, 64-71	10.4	6
42	Optical and electrochemical properties of iron oxide and hydroxide nanofibers synthesized using new template-free hydrothermal method. <i>Journal of Nanostructure in Chemistry</i> , <b>2020</b> , 10, 275-288	7.6	6
41	Effect of growth-time on electrochemical performance of birnessite manganese oxide ( $\text{EMnO}_2$ ) as electrodes for supercapacitors: An insight into neutral aqueous electrolytes. <i>Journal of Energy Storage</i> , <b>2021</b> , 36, 102419	7.8	6
40	A $\text{VO}_2$ based hybrid super-capacitor utilizing a highly concentrated aqueous electrolyte for increased potential window and capacity. <i>Electrochimica Acta</i> , <b>2020</b> , 345, 136225	6.7	6

39	Mechanochemical approach in the synthesis of activated carbons from waste tyres and its hydrogen storage applications. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 10505-10513	1.4	6
38	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
37	Biosynthesis of ZnO Nanoparticles by Adansonia Digitata Leaves Dye Extract: Structural and Physical Properties. <i>MRS Advances</i> , <b>2018</b> , 3, 2487-2497	0.7	5
36	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> , <b>2018</b> , 6, 17481-17487	13	5
35	Utilization of waste tyres pyrolysis oil vapour in the synthesis of Zeolite Templated Carbons (ZTCs) for hydrogen storage application. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2018</b> , 53, 1022-1028	2.3	5
34	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
33	Onion-derived activated carbons with enhanced surface area for improved hydrogen storage and electrochemical energy application.. <i>RSC Advances</i> , <b>2020</b> , 10, 26928-26936	3.7	5
32	Nitridation Temperature Effect on Carbon Vanadium Oxynitrides for a Symmetric Supercapacitor. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	5
31	Tuning the Nanoporous Structure of Carbons Derived from the Composite of Cross-Linked Polymers for Charge Storage Applications. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1763-1773	6.1	5
30	Raman spectroscopy and imaging of Bernal-stacked bilayer graphene synthesized on copper foil by chemical vapour deposition: growth dependence on temperature. <i>Journal of Raman Spectroscopy</i> , <b>2017</b> , 48, 639-646	2.3	4
29	Tartrazine removal from water using functionalized multiwall carbon nanotubes67, 397-405		4
28	Preparation of coal fly ash derived metal organic frameworks and their carbon derivatives. <i>Materials Today Communications</i> , <b>2021</b> , 27, 102433	2.5	4
27	Valorization of biodigester plant waste in electrodes for supercapacitors and microbial fuel cells. <i>Electrochimica Acta</i> , <b>2021</b> , 391, 138960	6.7	4
26	Effect of radiation on the performance of activated carbon base supercapacitor: Part I. Influence of microwave irradiation exposure on electrodes material. <i>Energy Procedia</i> , <b>2019</b> , 158, 4554-4559	2.3	3
25	Ab-initio study of the optical properties of beryllium-sulphur co-doped graphene. <i>AIP Advances</i> , <b>2019</b> , 9, 025221	1.5	3
24	Design and characterization of asymmetric supercapacitor useful in hybrid energy storage systems for electric vehicles. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 83-87	0.7	3
23	Pulsed laser liquid-solid interaction synthesis of Pt, Au, Ag and Cu nanosuspensions and their stability. <i>International Journal of Nanoparticles</i> , <b>2008</b> , 1, 212	0.4	3
22	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

21	Novel Thermally Reduced Graphene Oxide Microsupercapacitor Fabricated via Mask-Free AxiDraw Direct Writing. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
20	Floating of PPY Derived Carbon Based Symmetric Supercapacitor in Alkaline Electrolyte. <i>ECS Transactions</i> , <b>2017</b> , 75, 1-12	1	2
19	Structural evolution and epitaxial stabilisation of pulsed laser deposited Sm <sub>0.55</sub> Nd <sub>0.45</sub> NiO <sub>3</sub> solid solution nanostructured films on undoped Si (1 0 0) and NdGaO <sub>3</sub> substrates. <i>Journal of Physics and Chemistry of Solids</i> , <b>2010</b> , 71, 722-729	3.9	2
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16	Malathion-filled trilayer polyolefin film for malaria vector control. <i>Materials Science and Engineering C</i> , <b>2019</b> , 96, 419-425	8.3	2
15	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
14	K-edge x-ray dichroism investigation of Fe <sub>1-x</sub> Co <sub>x</sub> Si: Experimental evidence for spin polarization crossover. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 379, 274-279	2.8	1
13	Combined ThermoChromic And Plasmonic: Optical Responses In Novel Nanocomposite Au-VO <sub>2</sub> Films Prepared By RF Inverted Cylindrical Magnetron Sputtering. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	1
12	Asymmetric supercapacitor based on novel coal fly ash derived metal-organic frameworks as positive electrode and its derived carbon as negative electrode. <i>Journal of Applied Electrochemistry</i> , <b>2022</b> , 52, 821	2.6	1
11	Influence of growth kinetics on graphene domains shape under atmospheric pressure chemical vapor deposition. <i>Graphene Technology</i> , <b>2020</b> , 5, 75-81	1.8	1
10	NiZn hydroxide-based bi-phase multiscale porous nanohybrids: physico-chemical properties. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 2467-2477	3.3	1
9	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
8	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
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5	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
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