

# Raghavan B Rakhi

## List of Publications by Year in descending order

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72  
papers

6,825  
citations

125106

35  
h-index

93651

72  
g-index

73  
all docs

73  
docs citations

73  
times ranked

10898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-MoS <sub>2</sub> nanoflower coated carbon fabric as a flexible electrode for supercapacitor. Materials Today: Proceedings, 2022, 50, 1-6.	0.9	8
2	Amperometric cholesterol biosensor based on cholesterol oxidase and Pt-Au/ MWNTs modified glassy carbon electrode. Materials Today: Proceedings, 2022, 50, 34-39.	0.9	9
3	Manganese cobalt oxide nanoflakes for electrochemical energy storage. Journal of Materials Science: Materials in Electronics, 2022, 33, 8484-8492.	1.1	10
4	WS <sub>2</sub> Nanoflowers as Efficient Electrode Materials for Supercapacitors. Energy Technology, 2022, 10, 2100976.	1.8	33
5	High-frequency electrochemical double layer capacitor based on carbon nanotubes ink coated eggshell membrane electrodes. Journal of Energy Storage, 2022, 45, 103799.	3.9	9
6	3D-Structured MoS <sub>2</sub> Microflower Modified Electrodes toward Electrochemical Determination of Imidacloprid. ChemistrySelect, 2022, 7, .	0.7	4
7	One pot synthesis of tungsten oxide nanomaterial and application in the field of flexible symmetric supercapacitor energy storage device. Materials Today: Proceedings, 2022, 62, 848-851.	0.9	8
8	A study on the effect of phase conversion of tungsten nanostructures on their electrochemical energy storage performance. Materials Advances, 2022, 3, 5900-5910.	2.6	16
9	Tunable Capacitive Behavior in Metallopolymer-based Electrochromic Thin Film Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 31900-31910.	4.0	10
10	Direct growth of Mn(OH) <sub>2</sub> /Co(OH) <sub>2</sub> nanocomposite on carbon cloth for flexible supercapacitor electrodes. Journal of Energy Storage, 2021, 33, 102151.	3.9	10
11	Solvothermal synthesis of CuFeS <sub>2</sub> nanoflakes as a promising electrode material for supercapacitors. Journal of Energy Storage, 2021, 33, 102063.	3.9	16
12	Cu-Fe based oxides and selenides as advanced electrode materials for high performance symmetric supercapacitors. Materials Letters, 2021, 296, 129827.	1.3	5
13	MnCo <sub>2</sub> O <sub>4</sub> nanoneedles self-organized microstructures for supercapacitors. Materials Today Communications, 2021, 28, 102720.	0.9	16
14	Voltammetric determination of hydrogen peroxide using MoS <sub>2</sub> modified glassy carbon electrodes. Materials Letters, 2021, 301, 130258.	1.3	13
15	High performance supercapacitors based on MoS <sub>2</sub> nanostructures with near commercial mass loading. Journal of Alloys and Compounds, 2020, 819, 152963.	2.8	46
16	MoSe <sub>2</sub> nanoflowers as efficient electrode materials for supercapacitors. Journal of Materials Science: Materials in Electronics, 2020, 31, 20571-20577.	1.1	19
17	Experimental investigations on combustion characteristics of fuel briquettes made from vegetable market waste and saw dust. Materials Today: Proceedings, 2020, 33, 3826-3831.	0.9	17
18	Development of ZnO@rGO nanocomposites for the enzyme free electrochemical detection of urea and glucose. Materials Advances, 2020, 1, 1939-1951.	2.6	22

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19	Metal ion-induced capacitance modulation in near-isostructural complexes-derived electrochromic coordination polymers. <i>Materials Today Chemistry</i> , 2020, 16, 100260.	1.7	5
20	Heterostructured MoS <sub>2</sub> -RuO <sub>2</sub> nanocomposite: A promising electrode material for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020, 836, 155420.	2.8	47
21	Multifunctional nanohybrid material from discarded razor blades as cost-effective supercapacitor electrodes and oil-spill cleaners. <i>Applied Surface Science</i> , 2019, 487, 109-115.	3.1	10
22	Carbon Quantum Dot-Modified Carbon Paste Electrode-Based Sensor for Selective and Sensitive Determination of Adrenaline. <i>ACS Omega</i> , 2019, 4, 7903-7910.	1.6	50
23	Green synthesized gold nanoparticle dispersed porous carbon composites for electrochemical energy storage. <i>Materials Science for Energy Technologies</i> , 2019, 2, 389-395.	1.0	30
24	Preparation and properties of manipulated carbon nanotube composites and applications. , 2019, , 489-520.		17
25	Antibacterial and electrochemical activities of silver, gold, and palladium nanoparticles dispersed amorphous carbon composites. <i>Applied Surface Science</i> , 2019, 479, 96-104.	3.1	63
26	g-C <sub>3</sub> N <sub>4</sub> /CuO and g-C <sub>3</sub> N <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> nanohybrid structures as efficient electrode materials in symmetric supercapacitors. <i>RSC Advances</i> , 2019, 9, 38430-38437.	1.7	33
27	2D organic-inorganic hybrid composite material as a high-performance supercapacitor electrode. <i>Vacuum</i> , 2019, 166, 335-340.	1.6	21
28	A High-Performance Flexible Supercapacitor Anode Based On Polyaniline/Fe <sub>3</sub> O <sub>4</sub> Composite@Carbon Cloth. <i>ChemistrySelect</i> , 2018, 3, 3234-3240.	0.7	21
29	Antimicrobial, electrochemical and photo catalytic activities of Zn doped Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6040-6050.	1.1	30
30	Electrochemical Determination of Adrenaline Using MXene/Graphite Composite Paste Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43343-43351.	4.0	129
31	One-pot synthesis of g-C <sub>3</sub> N <sub>4</sub> /MnO <sub>2</sub> and g-C <sub>3</sub> N <sub>4</sub> /SnO <sub>2</sub> hybrid nanocomposites for supercapacitor applications. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2244-2251.	2.5	88
32	Titania nanotubes dispersed graphitic carbon nitride nanosheets as efficient electrode materials for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16598-16608.	1.1	14
33	Reduced graphene oxide based ternary nanocomposite cathodes for high-performance aqueous asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2017, 231, 539-548.	2.6	35
34	Zero-Dimensional Methylammonium Bismuth Iodide-Based Lead-Free Perovskite Capacitor. <i>ACS Omega</i> , 2017, 2, 5798-5802.	1.6	55
35	Direct Chemical Synthesis of MnO <sub>2</sub> Nanowhiskers on Transition-Metal Carbide Surfaces for Supercapacitor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18806-18814.	4.0	350
36	Novel amperometric glucose biosensor based on MXene nanocomposite. <i>Scientific Reports</i> , 2016, 6, 36422.	1.6	268

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37	Supercapacitors based on two dimensional VO <sub>2</sub> nanosheet electrodes in organic gel electrolyte. <i>Electrochimica Acta</i> , 2016, 220, 601-608.	2.6	58
38	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 6-14.	3.0	117
39	Effect of Postetch Annealing Gas Composition on the Structural and Electrochemical Properties of Ti <sub>2</sub> CT <sub>x</sub> MXene Electrodes for Supercapacitor Applications. <i>Chemistry of Materials</i> , 2015, 27, 5314-5323.	3.2	771
40	Morphological and Electrochemical Cycling Effects in MnO <sub>2</sub> Nanostructures by 3D Electron Tomography. <i>Advanced Functional Materials</i> , 2014, 24, 3130-3143.	7.8	107
41	MnO <sub>2</sub> : Morphological and Electrochemical Cycling Effects in MnO <sub>2</sub> Nanostructures by 3D Electron Tomography ( <i>Adv. Funct. Mater.</i> 21/2014). <i>Advanced Functional Materials</i> , 2014, 24, 3106-3106.	7.8	2
42	Nanostructured cobalt sulfide-on-fiber with tunable morphology as electrodes for asymmetric hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16190-16198.	5.2	191
43	Shape-controlled porous nanocarbons for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5236.	5.2	53
44	Enhanced Rate Performance of Mesoporous Co <sub>3</sub> O <sub>4</sub> Nanosheet Supercapacitor Electrodes by Hydrous RuO <sub>2</sub> Nanoparticle Decoration. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4196-4206.	4.0	226
45	A general approach toward enhancement of pseudocapacitive performance of conducting polymers by redox-active electrolytes. <i>Journal of Power Sources</i> , 2014, 267, 521-526.	4.0	46
46	Morphology-Dependent Enhancement of the Pseudocapacitance of Template-Guided Tunable Polyaniline Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15009-15019.	1.5	103
47	Conformal coating of Ni(OH) <sub>2</sub> nanoflakes on carbon fibers by chemical bath deposition for efficient supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14897.	5.2	96
48	Effect of pH-induced chemical modification of hydrothermally reduced graphene oxide on supercapacitor performance. <i>Journal of Power Sources</i> , 2013, 233, 313-319.	4.0	180
49	Facile synthesis of polyaniline nanotubes using reactive oxide templates for high energy density pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3315.	5.2	182
50	Capacitance enhancement of polyaniline coated curved-graphene supercapacitors in a redox-active electrolyte. <i>Nanoscale</i> , 2013, 5, 4134.	2.8	151
51	Influence of calcination temperature on the morphology and energy storage properties of cobalt oxide nanostructures directly grown over carbon cloth substrates. <i>Materials for Renewable and Sustainable Energy</i> , 2013, 2, 1.	1.5	24
52	Substrate Dependent Self-Organization of Mesoporous Cobalt Oxide Nanowires with Remarkable Pseudocapacitance. <i>Nano Letters</i> , 2012, 12, 2559-2567.	4.5	778
53	Effect of oxygen vacancy distribution on the thermoelectric properties of La-doped SrTiO <sub>3</sub> epitaxial thin films. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	18
54	Cerium Oxide Dispersed Multi Walled Carbon Nanotubes as Cathode Material for Flexible Field Emitters. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6718-6723.	0.9	5

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55	High energy density supercapacitors using macroporous kitchen sponges. <i>Journal of Materials Chemistry</i> , 2012, 22, 14394.	6.7	83
56	Nanostructured Ternary Electrodes for Energy Storage Applications. <i>Advanced Energy Materials</i> , 2012, 2, 381-389.	10.2	170
57	Nanoroses of Nickel Oxides: Synthesis, Electron Tomography Study, and Application in CO Oxidation and Energy Storage. <i>ChemSusChem</i> , 2012, 5, 1241-1248.	3.6	30
58	Conducting polymer/carbon nanocoil composite electrodes for efficient supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 5177.	6.7	89
59	Electrochemical Energy Storage Devices Using Electrodes Incorporating Carbon Nanocoils and Metal Oxides Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14392-14399.	1.5	101
60	High-Performance Nanostructured Supercapacitors on a Sponge. <i>Nano Letters</i> , 2011, 11, 5165-5172.	4.5	670
61	High performance supercapacitors using metal oxide anchored graphene nanosheet electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 16197.	6.7	280
62	Enhancement of the energy storage properties of supercapacitors using graphene nanosheets dispersed with metal oxide-loaded carbon nanotubes. <i>Journal of Power Sources</i> , 2011, 196, 8858-8865.	4.0	127
63	A cholesterol biosensor based on gold nanoparticles decorated functionalized graphene nanoplatelets. <i>Thin Solid Films</i> , 2011, 519, 5667-5672.	0.8	55
64	Electron field emission from magnetic nanomaterial encapsulated multi-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 195-202.	1.1	13
65	Metal decorated graphene nanosheets as immobilization matrix for amperometric glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 71-77.	4.0	260
66	A Glucose Biosensor Based on Deposition of Glucose Oxidase onto Crystalline Gold Nanoparticle Modified Carbon Nanotube Electrode. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3190-3194.	1.2	102
67	Electron field emitters based on multi-walled carbon nanotubes coated with conducting polymer/metal/metal-oxide composites. <i>Journal of Experimental Nanoscience</i> , 2009, 4, 67-76.	1.3	16
68	Electron field emission properties of conducting polymer coated multi walled carbon nanotubes. <i>Applied Surface Science</i> , 2008, 254, 6770-6774.	3.1	36
69	Synthesis and hydrogen storage properties of carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 381-386.	3.8	52
70	Electron field emitters based on multiwalled carbon nanotubes decorated with nanoscale metal clusters. <i>Journal of Nanoparticle Research</i> , 2008, 10, 179-189.	0.8	31
71	Field emission from carbon nanotubes on a graphitized carbon fabric. <i>Carbon</i> , 2008, 46, 1656-1663.	5.4	44
72	Effect of Purity and Substrate on Field Emission Properties of Multi-walled Carbon Nanotubes. <i>Nanoscale Research Letters</i> , 2007, 2, 331-336.	3.1	13