

# Johnson Princy Merlin

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

2,417  
citations

172457

29  
h-index

223800

46  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2083  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of hierarchical NiCo <sub>2</sub> S <sub>4</sub> @CoS <sub>2</sub> nanostructures on highly conductive flexible carbon cloth substrate as a hybrid electrode material for supercapacitors with enhanced electrochemical performance. <i>Electrochimica Acta</i> , 2019, 293, 328-337.	5.2	169
2	Preparation and characterization of activated carbon derived from the <i>Borassus flabellifer</i> flower as an electrode material for supercapacitor applications. <i>New Journal of Chemistry</i> , 2017, 41, 3939-3949.	2.8	119
3	A facile sonochemical assisted synthesis of $\gamma$ -MnMoO <sub>4</sub> /PANI nanocomposite electrode for supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , 2017, 797, 78-88.	3.8	102
4	Low cost activated carbon derived from Cucumis melo fruit peel for electrochemical supercapacitor application. <i>Applied Surface Science</i> , 2019, 486, 527-538.	6.1	101
5	Enhanced electrochemical behaviour of Co-MOF/PANI composite electrode for supercapacitors. <i>Inorganica Chimica Acta</i> , 2020, 502, 119393.	2.4	100
6	Photocatalytic Degradation of Rhodamine B Using Zinc Oxide Activated Charcoal Polyaniline Nanocomposite and Its Survival Assessment Using Aquatic Animal Model. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 258-267.	6.7	77
7	Polyaniline based charcoal/Ni nanocomposite material for high performance supercapacitors. <i>Sustainable Energy and Fuels</i> , 2018, 2, 811-819.	4.9	75
8	Naphthoquinone-Based Colorimetric and Fluorometric Dual-Channel Chemosensor for the Detection of Fe <sup>2+</sup> Ion and Its Application in Bio-Imaging of Live Cells and Zebrafish. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17210-17219.	6.7	67
9	Sustainable porous activated carbon from <i>Polyalthia longifolia</i> seeds as electrode material for supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2019, 849, 113382.	3.8	66
10	Study on the electrochemical behavior of BiVO <sub>4</sub> /PANI composite as a high performance supercapacitor material with excellent cyclic stability. <i>Journal of Electroanalytical Chemistry</i> , 2020, 861, 113972.	3.8	64
11	Enhanced photocatalytic degradation of azo dyes using nano Fe <sub>3</sub> O <sub>4</sub> . <i>Journal of the Iranian Chemical Society</i> , 2012, 9, 101-109.	2.2	63
12	Simple Colorimetric and Fluorescence Chemosensing Probe for Selective Detection of Sn <sup>2+</sup> Ions in an Aqueous Solution: Evaluation of the Novel Sensing Mechanism and Its Bioimaging Applications. <i>Analytical Chemistry</i> , 2021, 93, 801-811.	6.5	62
13	Enhanced electrochemical behaviour of FeCo <sub>2</sub> O <sub>4</sub> /PANI electrode material for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 874, 159876.	5.5	59
14	Simple Fluorescence Turn-On Chemosensor for Selective Detection of Ba <sup>2+</sup> Ion and Its Live Cell Imaging. <i>Analytical Chemistry</i> , 2019, 91, 10095-10101.	6.5	57
15	A phenoxazine-based fluorescent chemosensor for dual channel detection of Cd <sup>2+</sup> and CN <sup>-</sup> ions and its application to bio-imaging in live cells and zebrafish. <i>Dyes and Pigments</i> , 2020, 172, 107828.	3.7	54
16	Electrochemical investigation of Zr-doped ZnO nanostructured electrode material for high-performance supercapacitor. <i>Ionics</i> , 2020, 26, 5757-5772.	2.4	48
17	Recovery of copper oxide nanoparticles from waste SIM cards for supercapacitor electrode material. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156582.	5.5	47
18	Couroupita guianensis dead flower derived porous activated carbon as efficient supercapacitor electrode material. <i>Materials Research Bulletin</i> , 2019, 112, 390-398.	5.2	46

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19	Sonochemically recovered silver oxide nanoparticles from the wastewater of photo film processing units as an electrode material for supercapacitor and sensing of 2, 4, 6-trichlorophenol in agricultural soil samples. <i>Ultrasonics Sonochemistry</i> , 2019, 50, 255-264.	8.2	46
20	A comparative study on conventionally prepared MnFe <sub>2</sub> O <sub>4</sub> nanospheres and template-synthesized novel MnFe <sub>2</sub> O <sub>4</sub> nano-agglomerates as the electrodes for biosensing of mercury contaminations and supercapacitor applications. <i>Electrochimica Acta</i> , 2018, 290, 533-543.	5.2	45
21	Reduced Graphene Oxide Supported Cobalt Bipyridyl Complex for Sensitive Detection of Methyl Parathion in Fruits and Vegetables. <i>Electroanalysis</i> , 2017, 29, 1950-1960.	2.9	43
22	Visible light driven photodegradation of Rhodamine B using cysteine capped ZnO/GO nanocomposite as photocatalyst. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 6722-6730.	2.2	42
23	Effect of decorating cobalt ferrite spinel structures on pistachio vera shell "derived activated carbon on energy storage applications. <i>Electrochimica Acta</i> , 2020, 359, 136953.	5.2	41
24	Simultaneous determination of dopamine and uric acid in the presence of high ascorbic acid concentration using cetyltrimethylammonium bromide-polyaniline/activated charcoal composite. <i>RSC Advances</i> , 2016, 6, 100605-100613.	3.6	40
25	Facile synthesis of Eu-doped CaTiO <sub>3</sub> and their enhanced supercapacitive performance. <i>Ionics</i> , 2020, 26, 3543-3554.	2.4	39
26	Cost effective synthesis of a copper-1H-imidazole-activated carbon metal organic framework as an electrode material for supercapacitor applications. <i>New Journal of Chemistry</i> , 2018, 42, 10300-10308.	2.8	37
27	Facile synthesis of Zn <sub>3</sub> V <sub>2</sub> O <sub>8</sub> nanostructured material and its enhanced supercapacitive performance. <i>Journal of Alloys and Compounds</i> , 2021, 861, 157939.	5.5	37
28	Fabrication of a CuCo <sub>2</sub> O <sub>4</sub> /PANI nanocomposite as an advanced electrode for high performance supercapacitors. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5313-5326.	4.9	35
29	One-Pot Green Recovery of Copper Oxide nanoparticles from Discarded Printed Circuit Boards for electrode material in Supercapacitor Application. <i>Resources, Conservation and Recycling</i> , 2022, 180, 106180.	10.8	32
30	Electrochemical Studies on Tamarindus indica Fruit Shell Bio-Waste Derived Nanoporous Activated Carbons for Supercapacitor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3388-3397.	0.9	29
31	Fabrication of Co <sub>3</sub> O <sub>4</sub> nanoparticle-decorated porous activated carbon electrode for the electrochemical detection of 4-nitrophenol. <i>New Journal of Chemistry</i> , 2021, 45, 18358-18365.	2.8	25
32	Effect of Ni <sup>2+</sup> doping on chemocatalytic and supercapacitor performance of biosynthesized nanostructured CuO. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 21180-21193.	2.2	24
33	Multifunctional magnetic CoFe <sub>2</sub> O <sub>4</sub> nanoparticles for the photocatalytic discoloration of aqueous methyl violet dye and energy storage applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10738-10749.	2.2	23
34	Electrochemical sensing of glucose and photocatalytic performance of porous Co <sub>3</sub> O <sub>4</sub> films by nebulizer spray technique. <i>Materials Chemistry and Physics</i> , 2017, 186, 561-573.	4.0	22
35	Aloe vera (L.) Burm.f. extract reduced graphene oxide for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16648-16657.	2.2	22
36	Electrochemical performance of L-tryptophan picrate as an efficient electrode material for supercapacitor application. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11829-11838.	2.8	22

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37	A simple chemical approach for synthesis of Sr <sub>2</sub> Co <sub>2</sub> O <sub>5</sub> nanoparticles and its application in the detection of chloramphenicol and in energy storage systems. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114911.	3.8	22
38	Walnut shell derived mesoporous activated carbon for high performance electrical double layer capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2021, 901, 115762.	3.8	22
39	Fabrication of CoWO <sub>4</sub> /PANI composite as electrode material for energy storage applications. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 162, 110500.	4.0	22
40	Synergistic effect of Co <sub>3</sub> O <sub>4</sub> nanoparticles with Bauhinia vahlii dry fruits derived activated carbon on energy storage applications. <i>Journal of Solid State Chemistry</i> , 2021, 295, 121931.	2.9	21
41	Investigation on NiWO <sub>4</sub> /PANI composite as an electrode material for energy storage devices. <i>New Journal of Chemistry</i> , 2021, 45, 20612-20623.	2.8	21
42	Effective conversion of Cassia fistula dry fruits biomass into porous activated carbon for supercapacitors. <i>Materials Chemistry and Physics</i> , 2022, 286, 126188.	4.0	20
43	Inhibition of corrosion of commercial mild steel in presence of tetrazole derivatives in acid medium. <i>Ionics</i> , 2004, 10, 123-125.	2.4	19
44	Electro-organic synthesis of 2-(4,5-diphenyl-1H-imidazol-2-yl)phenol in Aqueous medium for organic monomer based Supercapacitor electrode. <i>Electrochimica Acta</i> , 2017, 251, 32-42.	5.2	19
45	Bio-assisted Hydrothermal Synthesis and Characterization of MnWO <sub>4</sub> Nanorods for High-Performance Supercapacitor Applications. <i>Journal of Electronic Materials</i> , 2019, 48, 7239-7249.	2.2	19
46	Systematic investigation on the electrochemical performance of Cd-doped ZnO as electrode material for energy storage devices. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 161, 110486.	4.0	18
47	Sonochemically Recovered Aluminum Oxide Nanoparticles from Domestic Aluminum Wastes as a Highly Stable Electrocatalyst for Proton-Pump Inhibitor (Omeprazole) Detection. <i>Journal of the Electrochemical Society</i> , 2020, 167, 027544.	2.9	15
48	Effect of annealing temperature on structural, optical and visible light photocatalytic performance of CaTiO <sub>3</sub> catalysts synthesized by simple sol-gel technique. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108051.	3.9	14
49	A simple conversion of expired medicines into nontoxic activated carbon for energy storage applications. <i>International Journal of Energy Research</i> , 2022, 46, 4380-4392.	4.5	13
50	Facile synthesis of platelet-like zirconium tungstate nanostructures for high performance supercapacitors. <i>International Journal of Energy Research</i> , 2022, 46, 17113-17125.	4.5	13
51	A fascinating multifunctional bis(2-(4,5-diphenyl-1H-imidazol-2-yl)phenoxy)nickel complex: An excellent electrode material for supercapacitor and uric acid sensor. <i>Materials Research Bulletin</i> , 2019, 118, 110482.	5.2	12
52	Sonochemical Assisted Leaching of Aluminium Oxide Nanoparticles from Domestic Aluminium Wastes as Non-Toxic Electrode Material for Energy Storage Application. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110541.	2.9	12
53	Robust fabrication of silver pyro-vanadates via sonochemical approach for advanced energy storage application. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162268.	5.5	12
54	DFT-TDDFT framework of diphenylamine based mixed valence compounds for optoelectronic applications – Structural modification of I <sup>+</sup> -acceptors. <i>Computational Materials Science</i> , 2019, 162, 359-369.	3.0	11

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55	Sonochemical synthesis and fabrication of neodymium sesquioxide entrapped with graphene oxide based hierarchical nanocomposite for highly sensitive electrochemical sensor of anti-cancer (raloxifene) drug. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 104717.	8.2	11
56	Naphthoquinone-Dopamine Linked Colorimetric and Fluorescence Chemosensor for Selective Detection of Sn <sup>2+</sup> Ion in Aqueous Medium and Its Bio-Imaging Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	11
57	Tuning the efficiency of CoFe <sub>2</sub> O <sub>4</sub> @rGO composite by encapsulating Ag nanoparticles for the photocatalytic degradation of methyl violet dye and energy storage systems. <i>New Journal of Chemistry</i> , 2021, 45, 17642-17653.	2.8	11
58	Synthesis and characterization of Sr-doped CdO nanoplatelets for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8426-8434.	2.2	11
59	Pronounced luminescence efficiency and thermal stability of small imidazole architect 2-(1, 4,) Tj ETQq1 1 0.784314 rgBT /Overlock 1071 Photobiology A: Chemistry, 2018, 365, 232-237.	3.9	10
60	Enhanced luminescence efficiency of structurally tailored new coumarin-based heterocyclic organic materials: a DFT/TD-DFT study. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	1.4	10
61	Simple and selective optical biosensor using Ultrasonicator synthesis of 5-((anthracen-9-ylmethylene)) Tj ETQq1 1 0.784314 rgBT /Overlock 1071 <i>Food Chemistry</i> , 2020, 332, 127150.	8.2	10
62	Biomass-derived porous activated carbon from <i>anacardium occidentale</i> shell as electrode material for supercapacitors. <i>New Journal of Chemistry</i> , 2022, 46, 8863-8873.	2.8	10
63	Inhibition of corrosion of aluminium in presence of fluorescein in basic medium. <i>Ionics</i> , 2004, 10, 288-290.	2.4	9
64	Enhanced electrochemical performance of aminophenol-modified ZnO as electrode material for supercapacitors. <i>Ionics</i> , 2022, 28, 859-869.	2.4	9
65	Photocatalytic degradation of rhodamine B using cysteine capped ZnO/P(3HB-co-3HHx) fiber under UV and visible light irradiation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 122, 671-684.	1.7	7
66	Electrochemical Detection of Trace Amounts of Arsenic (III) in Poultry Using a Graphene Oxide-Bis(2-(4,5-diphenyl-1H-imidazol-2-yl)phenoxy)Cobalt Composite Modified Electrode. <i>Journal of Electronic Materials</i> , 2019, 48, 4498-4506.	2.2	7
67	Development of a electrochemical sensor for the detection of 2,4-dichlorophenol using a polymer nanocomposite of rGO. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 7150-7162.	2.2	6
68	HRGO@Co@SnO <sub>2</sub> Nanocomposite for Electrochemical Detection of Hydrazine. <i>Journal of Electronic Materials</i> , 2019, 48, 542-550.	2.2	6
69	Synthesis, Characterization and Solvatochromic Studies Using the Solvent Polarity Parameter, ENT on 2-Chloro-3-Ethylamino-1,4-Naphthoquinone. <i>Journal of Fluorescence</i> , 2017, 27, 1505-1512.	2.5	4