

Functional porous carbonâ€ZnO nanocomposites for h energy storage applications

Physical Chemistry Chemical Physics

18, 16466-16475

DOI: [10.1039/c6cp01285j](https://doi.org/10.1039/c6cp01285j)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Activated Carbon -ZnO Nanocomposite for Electrochemical Sensing of Acetaminophen. International Journal of Electrochemical Science, 2016, , 8363-8373.	0.5	8
2	Microwave heating time dependent synthesis of various dimensional graphene oxide supported hierarchical ZnO nanostructures and its photoluminescence studies. Materials and Design, 2016, 111, 291-300.	3.3	52
3	Biomass-Derived Activated Carbon Supported Fe ₃ O ₄ Nanoparticles as Recyclable Catalysts for Reduction of Nitroarenes. ACS Sustainable Chemistry and Engineering, 2016, 4, 6772-6782.	3.2	108
4	Porous Ce-doped ZnO hollow sphere with enhanced photodegradation activity for artificial waste water. Journal of Alloys and Compounds, 2017, 699, 907-913.	2.8	60
5	High-surface-area tofu based activated porous carbon for electrical double-layer capacitors. Journal of Industrial and Engineering Chemistry, 2017, 52, 121-127.	2.9	55
6	A facile approach to synthesis of mesoporous SnO ₂ /chitosan nanocomposite modified electrode for simultaneous determination of ascorbic acid, dopamine and uric acid. Surfaces and Interfaces, 2017, 7, 146-156.	1.5	31
7	Natural Biowaste-Cocoon-Derived Granular Activated Carbon-Coated ZnO Nanorods: A Simple Route To Synthesizing a Core-Shell Structure and Its Highly Enhanced UV and Hydrogen Sensing Properties. ACS Applied Materials & Interfaces, 2017, 9, 39771-39780.	4.0	33
8	Organic Functionalization and Properties of ZnO Nanosheets with Polymer Containing N-Vinyl Carbazole. Materials Science Forum, 0, 898, 2118-2127.	0.3	0
9	Synthesis and characterization of zinc oxide nanoparticles and activated charcoal based nanocomposite for supercapacitor electrode application. Journal of Materials Science: Materials in Electronics, 2018, 29, 6853-6869.	1.1	60
10	Internally mixed nanoparticles from oscillatory spark ablation between electrodes of different materials. Aerosol Science and Technology, 2018, 52, 505-514.	1.5	30
11	Layer-by-layer nanostructured supercapacitor electrodes consisting of ZnO nanoparticles and multi-walled carbon nanotubes. Journal of Materials Science, 2018, 53, 6719-6728.	1.7	26
12	Activated porous carbon supported rhenium composites as electrode materials for electrocatalytic and supercapacitor applications. Electrochimica Acta, 2018, 271, 433-447.	2.6	34
13	Zinc oxide nanoparticles and activated charcoal-based nanocomposite electrode for supercapacitor application. Ionics, 2018, 24, 3611-3630.	1.2	31
14	Electrochemical co-preparation of cobalt sulfide/reduced graphene oxide composite for electrocatalytic activity and determination of H ₂ O ₂ in biological samples. Journal of Colloid and Interface Science, 2018, 509, 153-162.	5.0	60
15	Rational Synthesis of Highly Porous Carbon from Waste Bagasse for Advanced Supercapacitor Application. ACS Sustainable Chemistry and Engineering, 2018, 6, 15325-15332.	3.2	82
16	Metal Nanoparticle Carbon Gel Composites in Environmental Water Sensing Applications. Chemical Record, 2018, 18, 749-758.	2.9	4
17	Surface modification of oxygen-deficient ZnO nanotubes by interstitially incorporated carbon: a superior photocatalytic platform for sustainable water and surface treatments. Applied Nanoscience (Switzerland), 2018, 8, 1545-1555.	1.6	12
18	Peptide-Cellulose Conjugates on Cotton-Based Materials Have Protease Sensor/Sequestrant Activity. Sensors, 2018, 18, 2334.	2.1	18

#	ARTICLE	IF	CITATIONS
19	High oxygen reduction reaction performance nitrogen-doped biochar cathode: A strategy for comprehensive utilizing nitrogen and carbon in water hyacinth. <i>Bioresource Technology</i> , 2018, 267, 524-531.	4.8	82
20	Electrochemical behaviour of ZnO@AC based nanocomposite electrode for supercapacitor. <i>Materials Research Express</i> , 2018, 5, 085503.	0.8	25
21	Processing of nanomaterials in Layer-by-Layer films: Potential applications in (bio)sensing and energy storage. <i>Anais Da Academia Brasileira De Ciencias</i> , 2019, 91, e20181343.	0.3	7
22	Achieving high-energy-density and ultra-stable zinc-ion hybrid supercapacitors by engineering hierarchical porous carbon architecture. <i>Electrochimica Acta</i> , 2019, 327, 134999.	2.6	116
23	Rising Mesopores to Realize Direct Electrochemistry of Glucose Oxidase toward Highly Sensitive Detection of Glucose. <i>Advanced Functional Materials</i> , 2019, 29, 1903026.	7.8	71
24	A review on porous polymer composite materials for multifunctional electronic applications. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1253-1294.	0.6	19
25	Enhancement of UV Photodetection Properties of Hierarchical Core@Shell Heterostructures of a Natural Sericin Biopolymer with the Addition of ZnO Fabricated on Ultra-Nanocrystalline Diamond Layers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3254-3264.	4.0	5
26	Synthesis of silver incorporated lithium doped zinc oxide nanocomposites for in-vitro biorational evaluation of Candidiasis and Cryptococcosis. <i>Applied Surface Science</i> , 2020, 506, 144800.	3.1	1
27	Green synthesis of ternary-doped layered graphene nanosheets (DGNS) synthesized from waste onion peel for supercapacitors. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	2
28	Facile synthesis of activated carbon derived from Eucalyptus globulus seed as efficient electrode material for supercapacitors. <i>Diamond and Related Materials</i> , 2020, 109, 108038.	1.8	51
29	Electrochemical investigation of Zr-doped ZnO nanostructured electrode material for high-performance supercapacitor. <i>Ionics</i> , 2020, 26, 5757-5772.	1.2	48
30	Preparation of nanocomposites from agricultural waste and their versatile applications. , 2020, , 51-98.		4
31	Nitrogen and high oxygen-containing metal-free porous carbon nanosheets for supercapacitor and oxygen reduction reaction applications. <i>Nano Express</i> , 2020, 1, 010036.	1.2	8
32	Nanosensors for better diagnosis of health. , 2020, , 187-228.		2
33	Design and fabrication of cost-effective and sensitive non-enzymatic hydrogen peroxide sensor using Co-doped γ -MnO ₂ flowers as electrode modifier. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 789-798.	1.9	21
34	Novel synthesis of carbon nanofiber aerogels from coconut matrix for the electrochemical detection of glucose. <i>Diamond and Related Materials</i> , 2021, 111, 108180.	1.8	9
35	Hierarchically structured two-dimensional magnetic microporous biochar derived from hazelnut shell toward effective removal of p-arsanilic acid. <i>Applied Surface Science</i> , 2021, 540, 148372.	3.1	22
36	Recent Developments on Electrochemical Sensing Applications Using Vegetable Fiber Based Porous Carbon Materials. <i>Composites Science and Technology</i> , 2021, , 107-126.	0.4	0

#	ARTICLE	IF	CITATIONS
37	Synthesis and property of porous material for sustainable resources-based biosensor: A review. IOP Conference Series: Materials Science and Engineering, 0, 980, 012029.	0.3	1
38	Influence of calcination temperature on the electrochemical performance of Sol-gel-derived ZnO/C nanocomposite electrodes. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	5
39	The role of uniformly distributed ZnO nanoparticles on cellulose nanofibers in flexible solid state symmetric supercapacitors. Journal of Materials Chemistry A, 2021, 9, 11580-11594.	5.2	58
40	Waste elimination to porous carbonaceous materials for the application of electrochemical sensors: Recent developments. Journal of Cleaner Production, 2021, 290, 125759.	4.6	23
41	Fabrication of zinc oxide-decorated phyto-reduced graphene oxide nano-hybrid via Clerodendrum infortunatum. Emerging Materials Research, 2021, 10, 75-84.	0.4	11
42	Carotenoid-like Lycopene extracted from tomato as an efficient electrode for high-specific capacitance and high power density of supercapacitors. Journal of Materials Science: Materials in Electronics, 2021, 32, 13926-13940.	1.1	3
43	Role of morphology in electrochemical hydrogen storage using binary DyFeO ₃ -ZnO nanocomposites as electrode materials. International Journal of Hydrogen Energy, 2021, 46, 21026-21039.	3.8	12
44	A review on synthesis and applications of nano metal Oxide/porous carbon composite. Materials Today: Proceedings, 2022, 55, 212-219.	0.9	19
45	Biomass-Derived Activated Carbon-Supported Copper Catalyst: An Efficient Heterogeneous Magnetic Catalyst for Base-Free Chan-Lam Coupling and Oxidations. ACS Omega, 2021, 6, 19529-19545.	1.6	36
46	O-doped porous carbon derived from biomass waste for high-performance zinc-ion hybrid supercapacitors. Ionics, 2021, 27, 4495-4505.	1.2	14
47	Exploration of Metal/Ti ₃ C ₂ MXene-derived composites as anode for high-performance zinc-ion supercapacitor. Journal of Power Sources, 2021, 506, 230197.	4.0	43
48	Nanoporous carbon architectures for iontronics: Ion-based computing, logic circuits and biointerfacing. Chemical Engineering Journal, 2021, 420, 130431.	6.6	8
49	Sustainable Development of Carbon Nanocomposites: Synthesis and Classification for Environmental Remediation. Journal of Nanomaterials, 2021, 2021, 1-21.	1.5	43
50	Facile one pot synthesis of sulphur doped graphene for non-enzymatic sensing of hydrogen peroxide. International Journal of Environmental Analytical Chemistry, 0, , 1-12.	1.8	0
51	Rice straw-derived highly mesoporous carbon-zinc oxide nanocomposites as high performance photocatalytic adsorbents for toxic dyes. Journal of Cleaner Production, 2021, 318, 128583.	4.6	27
52	Low cost activated carbon from fallen Platanus-Acerifolia leaves for high-value energy materials. Ionics, 2022, 28, 697-706.	1.2	1
53	Zinc Oxide as a Multifunctional Material: From Biomedical Applications to Energy Conversion and Electrochemical Sensing. Environmental Chemistry for A Sustainable World, 2021, , 251-305.	0.3	3
54	Systematic investigation on the electrochemical performance of Cd-doped ZnO as electrode material for energy storage devices. Journal of Physics and Chemistry of Solids, 2022, 161, 110486.	1.9	18

#	ARTICLE	IF	CITATIONS
55	Facile fabrication of novel Ag ₂ S-ZnO/GO nanocomposite with its enhanced photocatalytic and biological applications. <i>Journal of Molecular Structure</i> , 2022, 1251, 131991.	1.8	25
56	Novel nanocomposites based on poly(4,4'-diaminodiphenyl sulfone) and carbon black-ZnO (CB@ZnO) binary composites: synthesis, characterization, and mechanical, optical and electrochemical properties. <i>Colloid and Polymer Science</i> , 2022, 300, 203-212.	1.0	1
57	Defects in nanomaterials for visible light photocatalysis. , 2022, , 319-350.		8
59	Novel hybrid materials based on poly (4,4'-Diaminodiphenyl sulfone) and TiO ₂ nanoparticles: synthesis, characterization, physical and electrochemical properties. <i>Research on Chemical Intermediates</i> , 2022, 48, 1717-1731.	1.3	4
60	Facile one-pot green synthesis of magnetic separation photocatalyst-adsorbent and its application. <i>Journal of Water Process Engineering</i> , 2022, 47, 102802.	2.6	45
61	Activated porous carbon supported Pd and ZnO nanocatalysts for trace sensing of carbaryl pesticide in water and food products. <i>New Jrd of Chemistry</i> , 2022, 46, 13880-13895.	1.4	4
62	Utilization of biosynthesized silica-supported iron oxide nanocomposites for the adsorptive removal of heavy metal ions from aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2023, 30, 81319-81332.	2.7	11
63	Recent advances in metal-based nanoporous materials for sensing environmentally-related biomolecules. <i>Chemosphere</i> , 2022, 307, 135999.	4.2	2
64	Sonochemical synthesized BaMoO ₄ /ZnO nanocomposites as electrode materials: A comparative study on GO and GQD employed in hydrogen storage. <i>Ultrasonics Sonochemistry</i> , 2022, 90, 106167.	3.8	4
65	Biomass-derived carbon nanomaterials for sensor applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2023, 222, 115102.	1.4	40
66	A circular approach for the treatment of aqueous metal effluent and biomass to generate superparamagnetic nanometal carbon hybrid and hydrogen-rich gas mixture. <i>Journal of Hazardous Materials Advances</i> , 2023, 9, 100213.	1.2	3
68	A study of relative electrochemical hydrogen storage capacity of active materials based on Zn ₃ Mo ₂ O ₉ /ZnO and Zn ₃ Mo ₂ O ₉ /ZnMoO ₄ . <i>International Journal of Hydrogen Energy</i> , 2023, 48, 10070-10080.	3.8	5
69	Preparation of PrCoO ₃ /CuO nanocomposites on the g-C ₃ N ₄ substrate for performance comparison of hydrogen storage capacity. <i>Journal of Energy Storage</i> , 2023, 63, 106999.	3.9	4
70	Co ₃ V ₂ O ₈ nanoparticle-assembled porous sphere as a new electrocatalyst for sensitive nonenzymatic sensing of H ₂ O ₂ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 665, 131224.	2.3	0