

Yi Zhao

List of Publications by Year in descending order

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56
papers

3,241
citations

136740

32
h-index

168136

53
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all docs

56
docs citations

56
times ranked

5222
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601424.	10.2	486
2	Encapsulating MWNTs into Hollow Porous Carbon Nanotubes: A Tube-in-Tube Carbon Nanostructure for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2014, 26, 5113-5118.	11.1	360
3	High-Rate and Ultralong Cycle-Life Potassium Ion Batteries Enabled by In Situ Engineering of Yolk-Shell FeS ₂ @C Structure on Graphene Matrix. <i>Advanced Energy Materials</i> , 2018, 8, 1802565.	10.2	207
4	MnO ₂ nanoflakes coated on multi-walled carbon nanotubes for rechargeable lithium-air batteries. <i>Electrochemistry Communications</i> , 2011, 13, 698-700.	2.3	143
5	Novel Preparation of N-Doped SnO ₂ Nanoparticles via Laser-Assisted Pyrolysis: Demonstration of Exceptional Lithium Storage Properties. <i>Advanced Materials</i> , 2017, 29, 1603286.	11.1	132
6	Single-walled carbon nanohorns coated with Fe ₂ O ₃ as a superior anode material for lithium ion batteries. <i>Chemical Communications</i> , 2011, 47, 7416.	2.2	127
7	Fully Reversible Conversion between SnO ₂ and Sn in SWNTs@SnO ₂ @PPy Coaxial Nanocable As High Performance Anode Material for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18612-18617.	1.5	116
8	A high performance carrier for SnO ₂ nanoparticles used in lithium ion battery. <i>Chemical Communications</i> , 2011, 47, 5238.	2.2	95
9	Sulfur- and Nitrogen-Doped, Ferrocene-Derived Mesoporous Carbons with Efficient Electrochemical Reduction of Oxygen. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12594-12601.	4.0	81
10	Enhanced performance of a MnO ₂ -graphene sheet cathode for lithium ion batteries using sodium alginate as a binder. <i>Journal of Materials Chemistry</i> , 2012, 22, 13002.	6.7	71
11	Rational synthesis of two-dimensional G@porous FeS ₂ @C composite as high-rate anode materials for sodium/potassium ion batteries. <i>Electrochimica Acta</i> , 2019, 307, 118-128.	2.6	70
12	Reserving Interior Void Space for Volume Change Accommodation: An Example of Cable-Like MWNTs@SnO ₂ @C Composite for Superior Lithium and Sodium Storage. <i>Advanced Science</i> , 2015, 2, 1500097.	5.6	69
13	Yolk-shell Fe ₂ O ₃ @C composites anchored on MWNTs with enhanced lithium and sodium storage. <i>Nanoscale</i> , 2015, 7, 9520-9525.	2.8	67
14	A novel quinone-based polymer electrode for high performance lithium-ion batteries. <i>Science China Materials</i> , 2016, 59, 6-11.	3.5	67
15	A Yolk-Shell Fe ₃ O ₄ @C Composite as an Anode Material for High-Rate Lithium Batteries. <i>ChemPlusChem</i> , 2012, 77, 748-751.	1.3	61
16	Spinel MFe ₂ O ₄ (M = Co, Ni) nanoparticles coated on multi-walled carbon nanotubes as electrocatalysts for Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10257.	5.2	57
17	Encapsulating porous SnO ₂ into a hybrid nanocarbon matrix for long lifetime Li storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25609-25617.	5.2	57
18	A nanocomposite of SnO ₂ and single-walled carbon nanohorns as a long life and high capacity anode material for lithium ion batteries. <i>RSC Advances</i> , 2011, 1, 852.	1.7	56

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19	Enhancing the Charge Transportation Ability of Yolk-Shell Structure for High-Rate Sodium and Potassium Storage. ACS Nano, 2020, 14, 4463-4474.	7.3	56
20	Polycrystalline zinc stannate as an anode material for sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 14033-14038.	5.2	53
21	In situ generation of Li ₂ FeSiO ₄ coating on MWNT as a high rate cathode material for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 18797.	6.7	52
22	Improving the Performance of Lithium-Sulfur Batteries by Employing Polyimide Particles as Hosting Matrixes. ACS Applied Materials & Interfaces, 2016, 8, 7464-7470.	4.0	52
23	An Effective Integrated Design for Enhanced Cathodes of Ni Foam-Supported Pt/Carbon Nanotubes for Li-O ₂ Batteries. ACS Applied Materials & Interfaces, 2014, 6, 12479-12485.	4.0	50
24	Long cycling life of Li ₂ MnSiO ₄ lithium battery cathodes under the double protection from carbon coating and graphene network. Journal of Materials Chemistry A, 2013, 1, 3856.	5.2	45
25	Yolk-shell NiS _x @C nanosheets as K-ion battery anodes with high rate capability and ultralong cycle life. Journal of Materials Chemistry A, 2019, 7, 18932-18939.	5.2	45
26	A Partial Sulfuration Strategy Derived Multi-Yolk-Shell Structure for Ultra-Stable K/Na/Li-ion Storage. Advanced Materials, 2021, 33, e2100837.	11.1	45
27	Coaxial MWNTs@MnO ₂ confined in conducting PPy for kinetically efficient and long-term lithium ion storage. Electrochimica Acta, 2013, 111, 165-171.	2.6	42
28	Enhancing the lithium storage performance of iron oxide composites through partial substitution with Ni ²⁺ or Co ²⁺ . Journal of Materials Chemistry, 2011, 21, 19101.	6.7	40
29	Encapsulating SnS ₂ nanosheets into hollow carbon sphere: A yolk-shell SnS ₂ @C composite with enhanced sodium storage performance. Electrochimica Acta, 2018, 270, 1-8.	2.6	37
30	A rational microstructure design of SnS ₂ -carbon composites for superior sodium storage performance. Nanoscale, 2018, 10, 7999-8008.	2.8	35
31	A self-template approach to synthesize multicore-shell Bi@N-doped carbon nanosheets with interior void space for high-rate and ultrastable potassium storage. Journal of Materials Chemistry A, 2020, 8, 8002-8009.	5.2	35
32	Synthesis and Structure of KPbBP ₂ O ₈ - A Congruent Melting Borophosphate with Nonlinear Optical Properties. European Journal of Inorganic Chemistry, 2013, 2013, 3185-3190.	1.0	33
33	Lithium storage in single-walled carbon nanotubes. Electrochemistry Communications, 2010, 12, 592-595.	2.3	31
34	Ammonia Defective Etching and Nitrogen-Doping of Porous Carbon toward High Exposure of Heme-Derived Fe-N Site for Efficient Oxygen Reduction. ACS Sustainable Chemistry and Engineering, 2018, 6, 551-560.	3.2	29
35	A general strategy for synthesis of metal oxide nanoparticles attached on carbon nanomaterials. Nanoscale Research Letters, 2011, 6, 71.	3.1	27
36	Direct growth of LiMn ₂ O ₄ on carbon nanotubes as cathode materials for lithium ion batteries. Materials Letters, 2012, 68, 197-200.	1.3	21

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37	Direct synthesis of iron oxide nanoparticles on an iron current collector as binder-free anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2012, 81, 105-107.	1.3	19
38	A ternary phased SnO ₂ -Fe ₂ O ₃ /SWCNTs nanocomposite as a high performance anode material for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2014, 23, 376-382.	7.1	18
39	Nest-like assembly of the doped single-walled carbon nanotubes with unique mesopores as ultrastable catalysts for high power density Zn-air battery. <i>Carbon</i> , 2018, 128, 46-53.	5.4	18
40	Fe ₂ O ₃ nanoparticles coated on ferrocene-encapsulated single-walled carbon nanotubes as stable anode materials for long-term cycling. <i>RSC Advances</i> , 2012, 2, 4205.	1.7	16
41	Approaching Superior Potassium Storage of Carbonaceous Anode Through a Combined Strategy of Carbon Hybridization and Sulfur Doping. <i>Energy and Environmental Materials</i> , 2022, 5, 944-953.	7.3	15
42	Conductive Porous Network of Metal-Organic Frameworks Derived Cobalt-Nitrogen-doped Carbon with the Assistance of Carbon Nanohorns as Electrocatalysts for Zinc-Air Batteries. <i>ChemCatChem</i> , 2018, 10, 1336-1343.	1.8	14
43	Hypoxia-mimicking cobalt-doped multi-walled carbon nanotube nanocomposites enhance the angiogenic capacity of stem cells from apical papilla. <i>Materials Science and Engineering C</i> , 2021, 120, 111797.	3.8	14
44	Lithium Storage Performance Boosted via Delocalizing Charge in Zn _x /Co _{1-x} PS ₃ /CoS ₂ of 2D/3D Heterostructure. <i>Small</i> , 2022, 18, e2104295.	5.2	13
45	Rational design of multi-walled carbon nanotube@hollow Fe ₃ O ₄ @C coaxial nanotubes as long-cycle-life lithium ion battery anodes. <i>Nanotechnology</i> , 2019, 30, 465402.	1.3	12
46	Single-walled carbon nanohorns with unique horn-shaped structures as a scaffold for lithium-sulfur batteries. <i>RSC Advances</i> , 2014, 4, 28636-28639.	1.7	10
47	A simple integrated design and manufacture by electrospinning of stabilized lithium battery tin-based anodes. <i>RSC Advances</i> , 2013, 3, 19251.	1.7	8
48	Surface-confinement assisted synthesis of nitrogen-rich single atom Fe ^N /C electrocatalyst with dual nitrogen sources for enhanced oxygen reduction reaction. <i>Nanotechnology</i> , 2021, 32, 305402.	1.3	7
49	Three-dimensional electroconductive carbon nanotube-based hydrogel scaffolds enhance neural differentiation of stem cells from apical papilla. , 2022, 138, 212868.		7
50	Iron encapsulated in single-walled carbon nanotubes for obtaining the evidence of improved coulombic efficiency and improving the lithium battery performance of ZnO anodes. <i>RSC Advances</i> , 2018, 8, 11566-11573.	1.7	6
51	Coaxial MWNTs@MnCo ₂ O ₄ wrapped in conducting graphene for enhanced lithium ion storage. <i>Journal of Materials Science</i> , 2021, 56, 9356-9367.	1.7	4
52	Crystalline Intermarriage of Hybrid Organic-Inorganic Halide Perovskite and Epoxide: Enhanced Stability and Modified Optical Properties. <i>ACS Applied Energy Materials</i> , 2021, 4, 13550-13555.	2.5	4
53	Electrochemical Thin Film Deposition of Copper(I) Halides in Aqueous Solution: Substrate Extension and Structure Transformation. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	4
54	Boosting the lithium and sodium storage performance of graphene-based composite via pore engineering and surface protection. <i>Nanotechnology</i> , 2021, 32, 105402.	1.3	2

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55	An Fe-N co-doped tube-in-tube carbon nanostructure used as an efficient catalyst for the electrochemical oxygen reduction reaction. <i>Nanotechnology</i> , 2019, 30, 485705.	1.3	0
56	Se ₄ P ₄ nanoparticles confined within porous carbon as a lithium-ion battery anode with superior electrochemical performance. <i>Nanotechnology</i> , 2021, 32, 505713.	1.3	0