Zhongxue Chen

List of Publications by Year
in descending order

84 papers	4,265 citations	94433 37 h-index	118850 62 g-index
86 all docs	86 docs citations	86 times ranked	4623 citing authors

#	Article	IF	Citations
1	A novel Fe-defect induced pure-phase Na4Fe2.91(PO4)2P2O7 cathode material with high capacity and ultra-long lifetime for low-cost sodium-ion batteries. Nano Energy, 2022, 91, 106680.	16.0	67
2	Glucose hydrothermal encapsulation of carbonized silicone polyester to prepare anode materials for lithium batteries with improved cycle stability. RSC Advances, 2022, 12, 9238-9248.	3.6	5
3	Toward wideâ€temperature electrolyte for lithiumâ€“ion batteries. , 2022, 1, .		32
4	Will Vanadiumâ€Based Electrode Materials Become the Future Choice for Metalâ€Ion Batteries?. ChemSusChem, 2022, 15, .	6.8	10
5	Porous, Encapsulated Siâ€“Oâ€“C Lithium-Ion Battery Anode Materials from Silicone-Containing Polyesters: Influences of Graphene Oxides. ACS Applied Energy Materials, 2022, 5, 4577-4586.	5.1	3
6	A stable "rocking-chair" zinc-ion battery boosted by low-strain Zn3V4(PO4)6 cathode. Nano Energy, 2022, 100, 107520.	16.0	24
7	Research progress of tunnel-structural Na0.44MnO2 cathode for sodium-ion batteries: A mini review. Electrochemistry Communications, 2021, 122, 106897.	4.7	26
8	Rechargeable Mgâ€“Na and Mgâ€“K hybrid batteries based on a low-defect Co₃[Co(CN)₆]₂ nanocube cathode. Physical Chemistry Chemical Physics, 2021, 23, 17530-17535.	2.8	3
9	Improved Initial Charging Capacity of Na-poor Na0.44MnO2 via Chemical Presodiation Strategy for Low-cost Sodium-ion Batteries. Chemical Research in Chinese Universities, 2021, 37, 274-279.	2.6	9
10	Design Strategies for Highâ€Voltage Aqueous Batteries. Small Structures, 2021, 2, 2100001.	12.0	54
11	A Green and Scalable Synthesis of Na₃Fe₂(PO₄)P₂O₇/rGO Cathode for Highâ€Rate and Longâ€Life Sodiumâ€Ion Batteries. Small Methods, 2021, 5, e2100372.	8.6	39
12	Recent Advances in Conversion-Type Electrode Materials for Post Lithium-Ion Batteries. , 2021, 3, 956-977.		66
13	Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. Angewandte Chemie - International Edition, 2021, 60, 21310-21318.	13.8	318
14	Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. Angewandte Chemie, 2021, 133, 21480-21488.	2.0	55
15	Emerging Intercalation Cathode Materials for Multivalent Metalâ€Ion Batteries: Status and Challenges. Small Structures, 2021, 2, 2100082.	12.0	61
16	Nanosheets assembling hierarchical starfish-like Cu2âˆ’xSe as advanced cathode for rechargeable Mg batteries. Chemical Engineering Journal, 2020, 384, 123235.	12.7	53
17	A novel Mg/Na hybrid battery based on Na2VTi(PO4)3 cathode: Enlightening the Na-intercalation cathodes by a metallic Mg anode and a dual-ion Mg2+/Na+ electrolyte. Chemical Engineering Journal, 2020, 399, 125689.	12.7	13
18	<i>a</i>-MoS₃@CNT nanowire cathode for rechargeable Mg batteries: a pseudocapacitive approach for efficient Mg-storage. Nanoscale, 2019, 11, 16043-16051.	5.6	23

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19	A hollow CuS nanocube cathode for rechargeable Mg batteries: effect of the structure on the performance. Journal of Materials Chemistry A, 2019, 7, 21410-21420.	10.3	58
20	Zero-strain Na₄Fe₇(PO₄)₆ as a novel cathode material for sodiumâ€“ion batteries. Chemical Communications, 2019, 55, 9043-9046.	4.1	24
21	Rechargeable Mgâ€“M (M = Li, Na and K) dual-metalâ€“ion batteries based on a Berlin green cathode and a metallic Mg anode. Physical Chemistry Chemical Physics, 2019, 21, 20269-20275.	2.8	10
22	Rechargeable Mg batteries based on a Ag₂S conversion cathode with fast solid-state Mg²⁺ diffusion kinetics. Dalton Transactions, 2019, 48, 14390-14397.	3.3	13
23	Understanding capacity fading of the LiVO₃cathode material by limiting the cutoff voltage. Physical Chemistry Chemical Physics, 2019, 21, 7009-7015.	2.8	11
24	Tailoring NaVO3 as a novel stable cathode for lithium rechargeable batteries. Electrochimica Acta, 2019, 307, 224-231.	5.2	7
25	Na4Fe3(PO4)2P2O7/C nanospheres as low-cost, high-performance cathode material for sodium-ion batteries. Energy Storage Materials, 2019, 22, 330-336.	18.0	111
26	Recent Progress in Rechargeable Sodiumâ€Ion Batteries: toward Highâ€Power Applications. Small, 2019, 15, e1805427.	10.0	254
27	Facile synthesis and electrochemical Mg-storage performance of Sb₂Se₃ nanowires and Bi₂Se₃ nanosheets. Dalton Transactions, 2019, 48, 17516-17523.	3.3	15
28	CoSe₂ hollow microspheres, nano-polyhedra and nanorods as pseudocapacitive Mg-storage materials with fast solid-state Mg²⁺ diffusion kinetics. Nanoscale, 2019, 11, 23173-23181.	5.6	26
29	3D graphene decorated Na4Fe3(PO4)2(P2O7) microspheres as low-cost and high-performance cathode materials for sodium-ion batteries. Nano Energy, 2019, 56, 160-168.	16.0	134
30	Cu₉S₅ Nanoflower Cathode for Mg Secondary Batteries: High Performance and Reaction Mechanism. Energy Technology, 2019, 7, 1800777.	3.8	15
31	Improved Sodium Storage Performance of Na_{0.44}MnO₂ Cathode at a High Temperature by Al₂O₃ Coating. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2019, 35, 1357-1364.	4.9	12
32	Facile Synthesis of Porous Coralline LiVO₃ as Highâ€Performance Liâ€Ion Battery Cathodes. ChemistrySelect, 2018, 3, 592-598.	1.5	11
33	A Fully Sodiated NaVOPO4 with Layered Structure for High-Voltage and Long-Lifespan Sodium-Ion Batteries. CheM, 2018, 4, 1167-1180.	11.7	140
34	Recent Progress in Ironâ€Based Electrode Materials for Gridâ€Scale Sodiumâ€Ion Batteries. Small, 2018, 14, 1703116.	10.0	146
35	Symmetric Sodium-Ion Capacitor Based on Na_{0.44}MnO₂ Nanorods for Low-Cost and High-Performance Energy Storage. ACS Applied Materials & Interfaces, 2018, 10, 11689-11698.	8.0	62
36	Facile synthesis of hierarchical porous Li2FeSiO4/C as highly stable cathode materials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 877-884.	2.5	14

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37	Template synthesis of mesoporous Li2MnSiO4@C composite with improved lithium storage properties. Electrochimica Acta, 2018, 291, 124-131.	5.2	12
38	Novel Alkaline Zn/Na_{0.44}MnO₂ Dual-Ion Battery with a High Capacity and Long Cycle Lifespan. ACS Applied Materials & Interfaces, 2018, 10, 34108-34115.	8.0	50
39	Edge-Rich Quasi-Mesoporous Nitrogen-Doped Carbon Framework Derived from Palm Tree Bark Hair for Electrochemical Applications. ACS Applied Materials & Interfaces, 2018, 10, 27047-27055.	8.0	49
40	Transition metal oxides based on conversion reaction for sodium-ion battery anodes. Materials Today Chemistry, 2018, 9, 114-132.	3.5	44
41	Copper sulfide nanoparticles as high-performance cathode materials for magnesium secondary batteries. Nanoscale, 2018, 10, 12526-12534.	5.6	95
42	Recent Advances in Sodium-Ion Battery Materials. Electrochemical Energy Reviews, 2018, 1, 294-323.	25.5	224
43	Novel cathode materials LixNa2âˆ’xV2O6 (xÂ=Â2, 1.4, 1, 0) for high-performance lithium-ion batteries. Journal of Power Sources, 2017, 344, 25-31.	7.8	15
44	High Rate, Long Lifespan LiV₃O₈ Nanorods as a Cathode Material for Lithiumâ€Ion Batteries. Small, 2017, 13, 1603148.	10.0	57
45	Hydrothermal preparation of nitrogen, boron co-doped curved graphene nanoribbons with high dopant amounts for high-performance lithium sulfur battery cathodes. Journal of Materials Chemistry A, 2017, 5, 7403-7415.	10.3	93
46	Recent Developments in Cathode Materials for Na Ion Batteries. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 211-241.	4.9	46
47	The significance of the stable Rhombohedral structure in Li-rich cathodes for lithium-ion batteries. Ionics, 2017, 23, 367-375.	2.4	3
48	Research Development on Lithium Rich Layered Oxide Cathode Materials. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2017, 32, 792.	1.3	0
49	Understanding Voltage Decay in Lithium-Rich Manganese-Based Layered Cathode Materials by Limiting Cutoff Voltage. ACS Applied Materials & Interfaces, 2016, 8, 18867-18877.	8.0	43
50	NaV₃O₈ Nanoplates as a Lithiumâ€Ionâ€Battery Cathode with Superior Rate Capability and Cycle Stability. ChemElectroChem, 2016, 3, 122-129.	3.4	20
51	Chemical modification of pristine carbon nanotubes and their exploitation as the carbon hosts for lithium-sulfur batteries. International Journal of Hydrogen Energy, 2016, 41, 21850-21860.	7.1	35
52	Effect of Li1/3Mn2/3-Substitution on Electrochemical Performance of P2-Na0.74CoO2 Cathode for Sodium-ion Batteries. Electrochimica Acta, 2016, 222, 862-866.	5.2	6
53	Building thermally stable Li-ion batteries using a temperature-responsive cathode. Journal of Materials Chemistry A, 2016, 4, 11239-11246.	10.3	68
54	Preparation, Characterization, and Lithium Intercalation Behavior of LiVO₃ Cathode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2016, 120, 3242-3249.	3.1	21

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55	Influence of Carbon Precursors on the Structure, Composition, and Oxygen Reduction Reaction Performance of Nitrogen-Doped Carbon Materials. Journal of Physical Chemistry C, 2015, 119, 28757-28765.	3.1	45
56	Facile synthesis of nitrogen-doped unzipped carbon nanotubes and their electrochemical properties. RSC Advances, 2015, 5, 8175-8181.	3.6	21
57	Nanoplate-stacked baguette-like LiVO₃ as a high performance cathode material for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 8750-8755.	10.3	27
58	A 3D nanostructure of graphene interconnected with hollow carbon spheres for high performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 11395-11402.	10.3	84
59	A nitrogen-doped unzipped carbon nanotube/sulfur composite as an advanced cathode for lithiumâ€“sulfur batteries. New Journal of Chemistry, 2015, 39, 8901-8907.	2.8	17
60	Mesoporous LiFeBO3/C hollow spheres for improved stability lithium-ion battery cathodes. Journal of Power Sources, 2015, 298, 355-362.	7.8	20
61	Graphene oxide wrapped hierarchical porous carbonâ€“sulfur composite cathode with enhanced cycling and rate performance for lithium sulfur batteries. RSC Advances, 2015, 5, 5516-5522.	3.6	29
62	A new co-solvent for wide temperature lithium ion battery electrolytes: 2,2,2-Trifluoroethyl n-caproate. Journal of Power Sources, 2015, 274, 676-684.	7.8	43
63	Facile synthesis of porous Pt botryoidal nanowires and their electrochemical properties. Electrochimica Acta, 2014, 147, 643-649.	5.2	10
64	Synthesis of Ag-Ru Nanostructures for Electroreduction of Benzyl Chloride. ECS Electrochemistry Letters, 2014, 3, H20-H23.	1.9	3
65	Effect of Annealing on the First-Cycle Performance and Reversible Capabilities of Lithium-Rich Layered Oxide Cathodes. Journal of Physical Chemistry C, 2014, 118, 11505-11511.	3.1	26
66	Enhanced Li Storage Performance of LiNi_{0.5}Mn_{1.5}O₄â€“Coated 0.4Li₂MnO₃Â·0.6LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathode Materials for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 16888-16894.	[illegible]	65
67	A facile one-step hydrothermal synthesis of Î±-Fe₂O₃nanoplates imbedded in graphene networks with high-rate lithium storage and long cycle life. Journal of Materials Chemistry A, 2014, 2, 13942-13948.	10.3	39
68	Facile preparation of Pdâ€“Au bimetallic nanoparticles via in-situ self-assembly in reverse microemulsion and their electrocatalytic properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 463, 55-62.	4.7	22
69	Preparation and characterization of trifluoroethyl aliphatic carboxylates as co-solvents for the carbonate-based electrolyte of lithium-ion batteries. Journal of Fluorine Chemistry, 2014, 161, 110-119.	1.7	22
70	Effects of carbon-chain length of trifluoroacetate co-solvents for lithium-ion battery electrolytes using at low temperature. Journal of Fluorine Chemistry, 2013, 156, 136-143.	1.7	43
71	Anode behavior of Sn/WC/graphene triple layered composite for lithium-ion batteries. Electrochimica Acta, 2013, 108, 674-679.	5.2	24
72	Hierarchical porous Li2FeSiO4/C composite with 2 Li storage capacity and long cycle stability for advanced Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 4988.	10.3	103

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73	Synthesis of Monoclinic Li[Li_{0.2}Mn_{0.54}Ni_{0.13}Co_{0.13}]O₂ Nanoparticles by a Layeredâ€Template Route for Highâ€Performance Liâ€Ion Batteries. European Journal of Inorganic Chemistry, 2013, 2013, 2887-2892.	2.0	19
74	LiF/Fe nanocomposite as a lithium-rich and high capacity conversion cathode material for Li-ion batteries. Journal of Power Sources, 2012, 217, 54-58.	7.8	23
75	Surface-oriented and nanoflake-stacked LiNi0.5Mn1.5O4 spinel for high-rate and long-cycle-life lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 17768.	6.7	86
76	Transition-metal chlorides as conversion cathode materials for Li-ion batteries. Electrochimica Acta, 2012, 68, 202-205.	5.2	48
77	In Situ Generation of Fewâ€Layer Graphene Coatings on SnO₂â€SiC Coreâ€Shell Nanoparticles for Highâ€Performance Lithiumâ€Ion Storage. Advanced Energy Materials, 2012, 2, 95-102.	19.5	233
78	In Situ Generation of Few-Layer Graphene Coatings on SnO2-SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage (Adv. Energy Mater. 1/2012). Advanced Energy Materials, 2012, 2, 94-94.	19.5	5
79	Pb-sandwiched nanoparticles as anode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 291-295.	2.5	22
80	Antimony-Coated SiC Nanoparticles as Stable and High-Capacity Anode Materials for Li-Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 15196-15201.	3.1	30
81	Facile synthesis and stable lithium storage performances of Sn- sandwiched nanoparticles as a high capacity anode material for rechargeable Li batteries. Journal of Materials Chemistry, 2010, 20, 7266.	6.7	60
82	Electrochemical performances of Al-based composites as anode materials for Li-ion batteries. Electrochimica Acta, 2009, 54, 4118-4122.	5.2	40
83	Preparation and electrochemical performance of Snâ€"Coâ€"C composite as anode material for Li-ion batteries. Journal of Power Sources, 2009, 189, 730-732.	7.8	54
84	Multilayered Nanocrystalline SnO₂ Hollow Microspheres Synthesized by Chemically Induced Self-Assembly in the Hydrothermal Environment. Journal of Physical Chemistry C, 2007, 111, 14067-14071.	3.1	195