

Zhongxue Chen

List of Publications by Year in descending order

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84
papers

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94433

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4623
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21310-21318.	13.8	318
2	Recent Progress in Rechargeable Sodium-Ion Batteries: toward High-Power Applications. <i>Small</i> , 2019, 15, e1805427.	10.0	254
3	In Situ Generation of Few-Layer Graphene Coatings on SnO ₂ -SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage. <i>Advanced Energy Materials</i> , 2012, 2, 95-102.	19.5	233
4	Recent Advances in Sodium-Ion Battery Materials. <i>Electrochemical Energy Reviews</i> , 2018, 1, 294-323.	25.5	224
5	Multilayered Nanocrystalline SnO ₂ Hollow Microspheres Synthesized by Chemically Induced Self-Assembly in the Hydrothermal Environment. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14067-14071.	3.1	195
6	Recent Progress in Iron-Based Electrode Materials for Grid-Scale Sodium-Ion Batteries. <i>Small</i> , 2018, 14, 1703116.	10.0	146
7	A Fully Sodiated NaVOPO ₄ with Layered Structure for High-Voltage and Long-Lifespan Sodium-Ion Batteries. <i>CheM</i> , 2018, 4, 1167-1180.	11.7	140
8	3D graphene decorated Na ₄ Fe ₃ (PO ₄) ₂ (P ₂ O ₇) microspheres as low-cost and high-performance cathode materials for sodium-ion batteries. <i>Nano Energy</i> , 2019, 56, 160-168.	16.0	134
9	Na ₄ Fe ₃ (PO ₄) ₂ P ₂ O ₇ /C nanospheres as low-cost, high-performance cathode material for sodium-ion batteries. <i>Energy Storage Materials</i> , 2019, 22, 330-336.	18.0	111
10	Hierarchical porous Li ₂ FeSiO ₄ /C composite with 2 Li storage capacity and long cycle stability for advanced Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4988.	10.3	103
11	Copper sulfide nanoparticles as high-performance cathode materials for magnesium secondary batteries. <i>Nanoscale</i> , 2018, 10, 12526-12534.	5.6	95
12	Hydrothermal preparation of nitrogen, boron co-doped curved graphene nanoribbons with high dopant amounts for high-performance lithium sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7403-7415.	10.3	93
13	Surface-oriented and nanoflake-stacked LiNi _{0.5} Mn _{1.5} O ₄ spinel for high-rate and long-cycle-life lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 17768.	6.7	86
14	A 3D nanostructure of graphene interconnected with hollow carbon spheres for high performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11395-11402.	10.3	84
15	Building thermally stable Li-ion batteries using a temperature-responsive cathode. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11239-11246.	10.3	68
16	A novel Fe-defect induced pure-phase Na ₄ Fe _{2.91} (PO ₄) ₂ P ₂ O ₇ cathode material with high capacity and ultra-long lifetime for low-cost sodium-ion batteries. <i>Nano Energy</i> , 2022, 91, 106680.	16.0	67
17	Recent Advances in Conversion-Type Electrode Materials for Post Lithium-Ion Batteries. , 2021, 3, 956-977.		66
18	Enhanced Li Storage Performance of LiNi _{0.5} Mn _{1.5} O ₄ -Coated 0.4Li ₂ MnO ₃ -0.6LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathode Materials for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16888-16894.		65

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19	Symmetric Sodium-Ion Capacitor Based on $\text{Na}_{0.44}\text{MnO}_2$ Nanorods for Low-Cost and High-Performance Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11689-11698.	8.0	62
20	Emerging Intercalation Cathode Materials for Multivalent Metal-Ion Batteries: Status and Challenges. <i>Small Structures</i> , 2021, 2, 2100082.	12.0	61
21	Facile synthesis and stable lithium storage performances of Sn- sandwiched nanoparticles as a high capacity anode material for rechargeable Li batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 7266.	6.7	60
22	A hollow CuS nanocube cathode for rechargeable Mg batteries: effect of the structure on the performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21410-21420.	10.3	58
23	High Rate, Long Lifespan Li_3O_8 Nanorods as a Cathode Material for Lithium-Ion Batteries. <i>Small</i> , 2017, 13, 1603148.	10.0	57
24	Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. <i>Angewandte Chemie</i> , 2021, 133, 21480-21488.	2.0	55
25	Preparation and electrochemical performance of Sn-C composite as anode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2009, 189, 730-732.	7.8	54
26	Design Strategies for High-Voltage Aqueous Batteries. <i>Small Structures</i> , 2021, 2, 2100001.	12.0	54
27	Nanosheets assembling hierarchical starfish-like Cu_2Se as advanced cathode for rechargeable Mg batteries. <i>Chemical Engineering Journal</i> , 2020, 384, 123235.	12.7	53
28	Novel Alkaline Zn/ $\text{Na}_{0.44}\text{MnO}_2$ Dual-Ion Battery with a High Capacity and Long Cycle Lifespan. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34108-34115.	8.0	50
29	Edge-Rich Quasi-Mesoporous Nitrogen-Doped Carbon Framework Derived from Palm Tree Bark Hair for Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27047-27055.	8.0	49
30	Transition-metal chlorides as conversion cathode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2012, 68, 202-205.	5.2	48
31	Recent Developments in Cathode Materials for Na Ion Batteries. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2017, 33, 211-241.	4.9	46
32	Influence of Carbon Precursors on the Structure, Composition, and Oxygen Reduction Reaction Performance of Nitrogen-Doped Carbon Materials. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28757-28765.	3.1	45
33	Transition metal oxides based on conversion reaction for sodium-ion battery anodes. <i>Materials Today Chemistry</i> , 2018, 9, 114-132.	3.5	44
34	Effects of carbon-chain length of trifluoroacetate co-solvents for lithium-ion battery electrolytes using at low temperature. <i>Journal of Fluorine Chemistry</i> , 2013, 156, 136-143.	1.7	43
35	A new co-solvent for wide temperature lithium ion battery electrolytes: 2,2,2-Trifluoroethyl n-caproate. <i>Journal of Power Sources</i> , 2015, 274, 676-684.	7.8	43
36	Understanding Voltage Decay in Lithium-Rich Manganese-Based Layered Cathode Materials by Limiting Cutoff Voltage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18867-18877.	8.0	43

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37	Electrochemical performances of Al-based composites as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2009, 54, 4118-4122.	5.2	40
38	A facile one-step hydrothermal synthesis of Fe_2O_3 nanoplates imbedded in graphene networks with high-rate lithium storage and long cycle life. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13942-13948.	10.3	39
39	A Green and Scalable Synthesis of $\text{Na}_3\text{Fe}_2(\text{PO}_4)_2\text{P}_2\text{O}_7/\text{rGO}$ Cathode for High-Rate and Long-Life Sodium-Ion Batteries. <i>Small Methods</i> , 2021, 5, e2100372.	8.6	39
40	Chemical modification of pristine carbon nanotubes and their exploitation as the carbon hosts for lithium-sulfur batteries. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21850-21860.	7.1	35
41	Toward wide-temperature electrolyte for lithium-ion batteries. , 2022, 1, .		32
42	Antimony-Coated SiC Nanoparticles as Stable and High-Capacity Anode Materials for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15196-15201.	3.1	30
43	Graphene oxide wrapped hierarchical porous carbon-sulfur composite cathode with enhanced cycling and rate performance for lithium sulfur batteries. <i>RSC Advances</i> , 2015, 5, 5516-5522.	3.6	29
44	Nanoplate-stacked baguette-like LiVO_3 as a high performance cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8750-8755.	10.3	27
45	Effect of Annealing on the First-Cycle Performance and Reversible Capabilities of Lithium-Rich Layered Oxide Cathodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11505-11511.	3.1	26
46	CoSe_2 hollow microspheres, nano-polyhedra and nanorods as pseudocapacitive Mg-storage materials with fast solid-state Mg^{2+} diffusion kinetics. <i>Nanoscale</i> , 2019, 11, 23173-23181.	5.6	26
47	Research progress of tunnel-structural $\text{Na}_{0.44}\text{MnO}_2$ cathode for sodium-ion batteries: A mini review. <i>Electrochemistry Communications</i> , 2021, 122, 106897.	4.7	26
48	Anode behavior of Sn/WC/graphene triple layered composite for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 108, 674-679.	5.2	24
49	Zero-strain $\text{Na}_4\text{Fe}_7(\text{PO}_4)_6$ as a novel cathode material for sodium-ion batteries. <i>Chemical Communications</i> , 2019, 55, 9043-9046.	4.1	24
50	A stable "rocking-chair" zinc-ion battery boosted by low-strain $\text{Zn}_3\text{V}_4(\text{PO}_4)_6$ cathode. <i>Nano Energy</i> , 2022, 100, 107520.	16.0	24
51	LiF/Fe nanocomposite as a lithium-rich and high capacity conversion cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2012, 217, 54-58.	7.8	23
52	MoS_3 @CNT nanowire cathode for rechargeable Mg batteries: a pseudocapacitive approach for efficient Mg-storage. <i>Nanoscale</i> , 2019, 11, 16043-16051.	5.6	23
53	Pb-sandwiched nanoparticles as anode material for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 291-295.	2.5	22
54	Facile preparation of Pd-Au bimetallic nanoparticles via in-situ self-assembly in reverse microemulsion and their electrocatalytic properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 463, 55-62.	4.7	22

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55	Preparation and characterization of trifluoroethyl aliphatic carboxylates as co-solvents for the carbonate-based electrolyte of lithium-ion batteries. <i>Journal of Fluorine Chemistry</i> , 2014, 161, 110-119.	1.7	22
56	Facile synthesis of nitrogen-doped unzipped carbon nanotubes and their electrochemical properties. <i>RSC Advances</i> , 2015, 5, 8175-8181.	3.6	21
57	Preparation, Characterization, and Lithium Intercalation Behavior of LiVO_3 Cathode Material for Lithium-ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3242-3249.	3.1	21
58	Mesoporous LiFeBO_3/C hollow spheres for improved stability lithium-ion battery cathodes. <i>Journal of Power Sources</i> , 2015, 298, 355-362.	7.8	20
59	NaV_3O_8 Nanoplates as a Lithium-ion Battery Cathode with Superior Rate Capability and Cycle Stability. <i>ChemElectroChem</i> , 2016, 3, 122-129.	3.4	20
60	Synthesis of Monoclinic $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}]\text{O}_2$ Nanoparticles by a Layered-Template Route for High-Performance Li-ion Batteries. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2887-2892.	2.0	19
61	A nitrogen-doped unzipped carbon nanotube/sulfur composite as an advanced cathode for lithium-sulfur batteries. <i>New Journal of Chemistry</i> , 2015, 39, 8901-8907.	2.8	17
62	Novel cathode materials $\text{Li}_x\text{Na}_{2-x}\text{V}_2\text{O}_6$ ($x=2, 1.4, 1, 0$) for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 344, 25-31.	7.8	15
63	Facile synthesis and electrochemical Mg-storage performance of Sb_2Se_3 nanowires and Bi_2Se_3 nanosheets. <i>Dalton Transactions</i> , 2019, 48, 17516-17523.	3.3	15
64	Cu_9S_5 Nanoflower Cathode for Mg Secondary Batteries: High Performance and Reaction Mechanism. <i>Energy Technology</i> , 2019, 7, 1800777.	3.8	15
65	Facile synthesis of hierarchical porous $\text{Li}_2\text{FeSiO}_4/\text{C}$ as highly stable cathode materials for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 877-884.	2.5	14
66	Rechargeable Mg batteries based on a Ag_2S conversion cathode with fast solid-state Mg^{2+} diffusion kinetics. <i>Dalton Transactions</i> , 2019, 48, 14390-14397.	3.3	13
67	A novel Mg/Na hybrid battery based on $\text{Na}_2\text{VTi}(\text{PO}_4)_3$ cathode: Enlightening the Na-intercalation cathodes by a metallic Mg anode and a dual-ion $\text{Mg}^{2+}/\text{Na}^+$ electrolyte. <i>Chemical Engineering Journal</i> , 2020, 399, 125689.	12.7	13
68	Template synthesis of mesoporous $\text{Li}_2\text{MnSiO}_4/\text{C}$ composite with improved lithium storage properties. <i>Electrochimica Acta</i> , 2018, 291, 124-131.	5.2	12
69	Improved Sodium Storage Performance of $\text{Na}_{0.44}\text{MnO}_2$ Cathode at a High Temperature by Al_2O_3 Coating. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2019, 35, 1357-1364.	4.9	12
70	Facile Synthesis of Porous Coralline LiVO_3 as High-Performance Li-ion Battery Cathodes. <i>ChemistrySelect</i> , 2018, 3, 592-598.	1.5	11
71	Understanding capacity fading of the LiVO_3 cathode material by limiting the cutoff voltage. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7009-7015.	2.8	11
72	Facile synthesis of porous Pt botryoidal nanowires and their electrochemical properties. <i>Electrochimica Acta</i> , 2014, 147, 643-649.	5.2	10

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73	Rechargeable Mg ²⁺ /M (M = Li, Na and K) dual-metal ⁺ ion batteries based on a Berlin green cathode and a metallic Mg anode. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20269-20275.	2.8	10
74	Will Vanadium ⁵⁺ -Based Electrode Materials Become the Future Choice for Metal ⁺ Ion Batteries?. <i>ChemSusChem</i> , 2022, 15, .	6.8	10
75	Improved Initial Charging Capacity of Na-poor Na _{0.44} MnO ₂ via Chemical Presodiation Strategy for Low-cost Sodium-ion Batteries. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 274-279.	2.6	9
76	Tailoring NaVO ₃ as a novel stable cathode for lithium rechargeable batteries. <i>Electrochimica Acta</i> , 2019, 307, 224-231.	5.2	7
77	Effect of Li _{1/3} Mn _{2/3} -Substitution on Electrochemical Performance of P2-Na _{0.74} CoO ₂ Cathode for Sodium-ion Batteries. <i>Electrochimica Acta</i> , 2016, 222, 862-866.	5.2	6
78	In Situ Generation of Few-Layer Graphene Coatings on SnO ₂ -SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage (<i>Adv. Energy Mater.</i> 1/2012). <i>Advanced Energy Materials</i> , 2012, 2, 94-94.	19.5	5
79	Glucose hydrothermal encapsulation of carbonized silicone polyester to prepare anode materials for lithium batteries with improved cycle stability. <i>RSC Advances</i> , 2022, 12, 9238-9248.	3.6	5
80	Synthesis of Ag-Ru Nanostructures for Electroreduction of Benzyl Chloride. <i>ECS Electrochemistry Letters</i> , 2014, 3, H20-H23.	1.9	3
81	The significance of the stable Rhombohedral structure in Li-rich cathodes for lithium-ion batteries. <i>Ionics</i> , 2017, 23, 367-375.	2.4	3
82	Rechargeable Mg ²⁺ /Na and Mg ²⁺ /K hybrid batteries based on a low-defect Co ₃ [Co(CN) ₆] ₂ nanocube cathode. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17530-17535.	2.8	3
83	Porous, Encapsulated Si ⁺ /O ²⁻ /C Lithium-Ion Battery Anode Materials from Silicone-Containing Polyesters: Influences of Graphene Oxides. <i>ACS Applied Energy Materials</i> , 2022, 5, 4577-4586.	5.1	3
84	Research Development on Lithium Rich Layered Oxide Cathode Materials. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2017, 32, 792.	1.3	0