Jun-Chao Zheng

List of Publications by Year
in descending order

96	4,692	87723 38	106150 65
papers	citations	h-index	g-index

96	96	96	3656
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploring competitive features of stationary sodium ion batteries for electrochemical energy storage. Energy and Environmental Science, 2019, 12, 1512-1533.	15.6	402
2	In situ formed LiNi0.8Co0.15Al0.05O2@Li4SiO4 composite cathode material with high rate capability and long cycling stability for lithium-ion batteries. Nano Energy, 2018, 53, 613-621.	8.2	243
3	Synthesis of sandwich-like structured Sn/SnOx@MXene composite through in-situ growth for highly reversible lithium storage. Nano Energy, 2019, 62, 401-409.	8.2	235
4	Graphene Wrapped FeSe₂ Nanoâ€Microspheres with High Pseudocapacitive Contribution for Enhanced Naâ€Ion Storage. Advanced Energy Materials, 2019, 9, 1900356.	10.2	216
5	Enhancement on structural stability of Ni-rich cathode materials by in-situ fabricating dual-modified layer for lithium-ion batteries. Nano Energy, 2019, 65, 104043.	8.2	193
6	Li4V2Mn(PO4)4-stablized Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode materials for lithium ion batteries. Nano Energy, 2019, 63, 103889.	8.2	138
7	MoS2/SnS@C hollow hierarchical nanotubes as superior performance anode for sodium-ion batteries. Nano Energy, 2021, 90, 106568.	8.2	112
8	Enhanced electrochemical performance of LiNi 0.8 Co 0.1 Mn 0.1 O 2 with lithium-reactive Li 3 VO 4 coating. Journal of Alloys and Compounds, 2017, 706, 198-204.	2.8	109
9	Comprehensive understanding of Li/Ni intermixing in layered transition metal oxides. Materials Today, 2021, 51, 365-392.	8.3	102
10	Surface Modification Engineering Enabling 4.6ÂV Singleâ€Crystalline Niâ€Rich Cathode with Superior Longâ€Term Cyclability. Advanced Functional Materials, 2022, 32, 2109421.	7.8	99
11	CNT-Decorated Na₃V₂(PO₄)₃ Microspheres as a High-Rate and Cycle-Stable Cathode Material for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 3590-3595.	4.0	95
12	Boosting cell performance of LiNi0.8Co0.1Mn0.1O2 cathode material via structure design. Journal of Energy Chemistry, 2021, 55, 114-123.	7.1	94
13	Boosting Cell Performance of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ via Surface Structure Design. Small, 2019, 15, e1904854.	5.2	92
14	High-entropy oxides as advanced anode materials for long-life lithium-ion Batteries. Nano Energy, 2022, 95, 106962.	8.2	86
15	LiFePO4 with enhanced performance synthesized by a novel synthetic route. Journal of Power Sources, 2008, 184, 574-577.	4.0	79
16	Ultrahigh-Rate Behavior Anode Materials of MoSe₂ Nanosheets Anchored on Dual-Heteroatoms Functionalized Graphene for Sodium-Ion Batteries. Inorganic Chemistry, 2019, 58, 8169-8178.	1.9	77
17	An advance review of solid-state battery: Challenges, progress and prospects. Sustainable Materials and Technologies, 2021, 29, e00297.	1.7	74
18	Formation and Effect of Residual Lithium Compounds on Li-Rich Cathode Material Li_{1.35}[Ni_{0.35}Mn_{0.65}]O₂. ACS Applied Materials & Interfaces, 2019, 11, 11518-11526.	4.0	70

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19	Overwhelming the Performance of Single Atoms with Atomic Clusters for Platinum-Catalyzed Hydrogen Evolution. ACS Catalysis, 2019, 9, 8213-8223.	5.5	68
20	Flux-free synthesis of single-crystal LiNi0.8Co0.1Mn0.1O2 boosts its electrochemical performance in lithium batteries. Journal of Power Sources, 2020, 464, 228207.	4.0	67
21	In situ-formed LiVOPO 4 @V 2 O 5 core-shell nanospheres as a cathode material for lithium-ion cells. Energy Storage Materials, 2017, 7, 48-55.	9.5	60
22	In Situ-Formed Hollow Cobalt Sulfide Wrapped by Reduced Graphene Oxide as an Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 2671-2678.	4.0	56
23	3D porous carbon nanofibers with CeO2-decorated as cathode matrix for high performance lithium-sulfur batteries. Journal of Power Sources, 2020, 473, 228588.	4.0	56
24	Cathode material LiNi0.8Co0.1Mn0.1O2/LaPO4 with high electrochemical performance for lithium-ion batteries. Journal of Alloys and Compounds, 2018, 764, 44-50.	2.8	55
25	Characteristics of xLiFePO4Â·y Li3V2(PO4)3 electrodes for lithium batteries. Ionics, 2009, 15, 753-759.	1.2	53
26	Comparative Investigation of Na₂FeP₂O₇ Sodium Insertion Material Synthesized by Using Different Sodium Sources. ACS Sustainable Chemistry and Engineering, 2018, 6, 4966-4972.	3.2	53
27	Ironâ€“zinc sulfide Fe₂Zn₃S₅/Fe_{1âˆ’x}S@C derived from a metalâ€“organic framework as a high performance anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 16479-16487.	5.2	51
28	Unique FeP@C with polyhedral structure in-situ coated with reduced graphene oxide as an anode material for lithium ion batteries. Journal of Alloys and Compounds, 2020, 841, 155670.	2.8	51
29	A novel lithium vanadium fluorophosphate nanosheet with uniform carbon coating as a cathode material for lithium-ion batteries. Journal of Power Sources, 2014, 264, 123-127.	4.0	50
30	Synthesis and electrochemical performance of Ni doped Na3V2(PO4)3/C cathode materials for sodium ion batteries. Journal of Alloys and Compounds, 2017, 728, 976-983.	2.8	50
31	Multiple Linkage Modification of Lithium-Rich Layered Oxide Li_{1.2}Mn_{0.54}Ni_{0.13}Co_{0.13}O₂ for Lithium Ion Battery. ACS Applied Materials & Interfaces, 2018, 10, 31324-31329.	4.0	50
32	Electrochemical Properties of VPO₄/C Nanosheets and Microspheres As Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 6223-6226.	4.0	48
33	Nano-micro structure VO2/CNTs composite as a potential anode material for lithium ion batteries. Ceramics International, 2018, 44, 13113-13121.	2.3	46
34	One-time sintering process to modify xLi2MnO3 (-x)LiMO2 hollow architecture and studying their enhanced electrochemical performances. Journal of Energy Chemistry, 2020, 50, 271-279.	7.1	43
35	V2O3/rGO composite as a potential anode material for lithium ion batteries. Ceramics International, 2018, 44, 15044-15049.	2.3	42
36	Metal-organic framework derived flower-like FeS/C composite as an anode material in lithium-ion and sodium-ion batteries. Journal of Alloys and Compounds, 2019, 790, 288-295.	2.8	41

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37	Highly conductive C-Si@G nanocomposite as a high-performance anode material for Li-ion batteries. Electrochimica Acta, 2019, 295, 719-725.	2.6	41
38	VPO4@C/graphene microsphere as a potential anode material for lithium-ion batteries. Ceramics International, 2018, 44, 14432-14438.	2.3	40
39	VOPO₄nanosheets as anode materials for lithium-ion batteries. Chemical Communications, 2014, 50, 11132.	2.2	39
40	Suppress voltage decay of lithium-rich materials by coating layers with different crystalline states. Journal of Energy Chemistry, 2021, 60, 591-598.	7.1	39
41	A facile strategy for developing uniform hierarchical Na3V2(PO4)2F3@carbonized polyacrylonitrile multi-clustered hollow microspheres for high-energy-density sodium-ion batteries. Chemical Engineering Journal, 2022, 428, 131780.	6.6	39
42	Comparative Investigation of Phosphate-Based Composite Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 13520-13526.	4.0	38
43	ZnS nanoparticles embedded in porous honeycomb-like carbon nanosheets as high performance anode material for lithium ion batteries. Ceramics International, 2018, 44, 13706-13711.	2.3	38
44	Encouraging Voltage Stability upon Long Cycling of Li-Rich Mn-Based Cathode Materials by Taâ€“Mo Dual Doping. ACS Applied Materials & Interfaces, 2021, 13, 25981-25992.	4.0	38
45	Conductive molybdenum carbide as the polysulfide reservoir for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 17142-17147.	5.2	37
46	In-situ Grown SnS2 Nanosheets on rGO as an Advanced Anode Material for Lithium and Sodium Ion Batteries. Frontiers in Chemistry, 2018, 6, 629.	1.8	36
47	Effect of MgO and TiO₂ Coating on the Electrochemical Performance of Liâ€Rich Cathode Materials for Lithiumâ€Ion Batteries. Energy Technology, 2019, 7, 1800829.	1.8	36
48	Investigation of phase structure change and electrochemical performance in LiVP2O7-Li3V2(PO4)3-LiVPO4F system. Electrochimica Acta, 2016, 198, 195-202.	2.6	34
49	Dual-carbon confined SnO2 as ultralong-life anode for Li-ion batteries. Ceramics International, 2019, 45, 7830-7838.	2.3	31
50	Fe3O4 wrapped by reduced graphene oxide as a high-performance anode material for lithium-ion batteries. Ionics, 2020, 26, 1695-1701.	1.2	30
51	High entropy oxides (FeNiCrMnX)3O4 (X=Zn, Mg) as anode materials for lithium ion batteries. Ceramics International, 2021, 47, 33972-33977.	2.3	30
52	Enhanced electrochemical performance of Li1.2Mn0.54Ni0.13Co0.13O2 cathode by surface modification using Laâ€“Coâ€“O compound. Ceramics International, 2021, 47, 2656-2664.	2.3	26
53	In-situ chemical conversion film for stabilizing zinc metal anodes. Journal of Energy Chemistry, 2022, 73, 387-393.	7.1	26
54	Reduced Graphene Oxide Decorated Na3V2(PO4)3 Microspheres as Cathode Material With Advanced Sodium Storage Performance. Frontiers in Chemistry, 2018, 6, 174.	1.8	25

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55	Microcrack generation and modification of Ni-rich cathodes for Li-ion batteries: A review. Sustainable Materials and Technologies, 2021, 29, e00305.	1.7	25
56	Suppressing the Voltage Fading of Li[Li_{0.2}Ni_{0.13}Co_{0.13}Mn_{0.54}]O₂Cathode Material via Al₂O₃Coating for Li-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A1648-A1655.	1.3	24
57	A sandwich-like Ti3C2@VO2 composite synthesized by a hydrothermal method for lithium storage. Solid State Ionics, 2021, 369, 115714.	1.3	22
58	Enhancing Cell Performance of Lithium-Rich Manganese-Based Materials via Tailoring Crystalline States of a Coating Layer. ACS Applied Materials & Interfaces, 2021, 13, 49390-49401.	4.0	22
59	Cyclic performance of Li-rich layered material Li1.1Ni0.35Mn0.65O2 synthesized through a two-step calcination method. Electrochimica Acta, 2017, 252, 286-294.	2.6	21
60	Lattice Engineering to Refine Particles and Strengthen Bonds of the LiNi_{0.9}Co_{0.05}Mn_{0.05}O₂ Cathode toward Efficient Lithium Ion Storage. ACS Sustainable Chemistry and Engineering, 2022, 10, 3532-3545.	3.2	21
61	Comparative investigation of microporous and nanosheet LiVOPO₄ as cathode materials for lithium-ion batteries. RSC Advances, 2014, 4, 41076-41080.	1.7	20
62	Synthesis and characterization of a sulfur/TiO2 composite for Li-S battery. Ionics, 2019, 25, 9-15.	1.2	20
63	Electrospinning MoS2-Decorated Porous Carbon Nanofibers for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 11893-11899.	2.5	20
64	Interfacial Engineering with Liquid Metal for Si-Based Hybrid Electrodes in Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 5147-5152.	2.5	20
65	Nitrogen-rich two-dimensional ï€-conjugated porous covalent quinazoline polymer for lithium storage. Energy Storage Materials, 2022, 50, 225-233.	9.5	20
66	Effect of synthesis temperature on the phase structure, morphology and electrochemical performance of Ti3C2 as an anode material for Li-ion batteries. Ceramics International, 2018, 44, 16214-16218.	2.3	19
67	Single-walled carbon nanotube as conductive additive for SiO/C composite electrodes in pouch-type lithium-ion batteries. Ionics, 2020, 26, 1721-1728.	1.2	19
68	A novel hollow porous structure designed for Na0.44Mn2/3Co1/6Ni1/6O2 cathode material of sodium-ion batteries. Journal of Power Sources, 2020, 479, 228788.	4.0	19
69	Modification of LiNi0.8Co0.1Mn0.1O2 cathode materials from the perspective of chemical stabilization and kinetic hindrance. Journal of Power Sources, 2021, 499, 229756.	4.0	19
70	Self-assembled GeO_X/Ti₃C₂T_X Composites as Promising Anode Materials for Lithium Ion Batteries. Inorganic Chemistry, 2020, 59, 4711-4719.	1.9	18
71	A novelty strategy induced pinning effect and defect structure in Ni-rich layered cathodes towards boosting its electrochemical performance. Journal of Energy Chemistry, 2022, 72, 570-580.	7.1	18
72	Composite cathode material Î²-LiVOPO₄/LaPO₄ with enhanced electrochemical properties for lithium ion batteries. RSC Advances, 2014, 4, 40912-40916.	1.7	16

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73	Structure and primary particle double-tuning by trace nano-TiO₂ for a high-performance LiNiO₂ cathode material. Sustainable Energy and Fuels, 2019, 3, 3234-3243.	2.5	16
74	Highly Catalytic Boron Nitride Nanofiber In Situ Grown on Pretreated Ketjenblack as a Cathode for Enhanced Performance of Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 10841-10853.	2.5	16
75	Multifunctionality of cerium decoration in enhancing the cycling stability and rate capability of a nickel-rich layered oxide cathode. Nanoscale, 2021, 13, 20213-20224.	2.8	16
76	Mechanical and Dynamic Mechanical Properties of the Amino Silicone Oil Emulsion Modified Ramie Fiber Reinforced Composites. Polymers, 2021, 13, 4083.	2.0	16
77	V₂(PO₄)O/C@CNT hollow spheres with a coreâ€“shell structure as a high performance anode material for lithium-ion batteries. Materials Chemistry Frontiers, 2019, 3, 456-463.	3.2	15
78	Tungsten-consolidated crystal structure of LiNi0.6Co0.2Mn0.2O2 cathode materials for superior electrochemical performance. Applied Surface Science, 2020, 509, 145287.	3.1	15
79	Synthesis and characterization of SiO2/Ti3C2 anode materials for lithium-ion batteries via different methods. Ionics, 2020, 26, 5325-5331.	1.2	15
80	Fast Li-ion conductor Li1+yTi2-yAly(PO4)3 modified Li1.2[Mn0.54Ni0.13Co0.13]O2 as high performance cathode material for Li-ion battery. Ceramics International, 2021, 47, 18397-18404.	2.3	14
81	SnS particles anchored on Ti3C2 nanosheets as high-performance anodes for lithium-ion batteries. Journal of Alloys and Compounds, 2022, 893, 162089.	2.8	14
82	Structural properties of composite cathode material LiFePO4â€“Li3V2(PO4)3. Ionics, 2011, 17, 859-862.	1.2	13
83	Comparative Investigation of 0.5Li2MnO3Â·0.5LiNi0.5Co0.2Mn0.3O2 Cathode Materials Synthesized by Using Different Lithium Sources. Frontiers in Chemistry, 2018, 6, 159.	1.8	12
84	Self-assembled 3D network GeOx/CNTs nanocomposite as anode material for Li-ion battery. Powder Technology, 2018, 338, 211-219.	2.1	11
85	V2(PO4)O encapsulated into crumpled nitrogen-doped graphene as a high-performance anode material for sodium-ion batteries. Electrochimica Acta, 2019, 306, 238-244.	2.6	11
86	3D-porous Î²-LiVOPO₄/C microspheres as a cathode material with enhanced performance for Li-ion batteries. RSC Advances, 2015, 5, 7208-7214.	1.7	10
87	Potassium phosphate monobasic induced decoration from the surface into the bulk lattice for Ni-rich cathode materials with enhanced cell performance. Sustainable Energy and Fuels, 2020, 4, 3352-3362.	2.5	10
88	Surface dual-shell construction enhances the electrochemical performances of Li1Â·2Ni0Â·13Co0Â·13Mn0Â·54O2 cathode materials. Electrochimica Acta, 2020, 341, 136082.	2.6	10
89	W-Doped LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂with Excellent High-Rate Performance Synthesized via Hydrothermal Lithiation. Journal of the Electrochemical Society, 2022, 169, 050509.	1.3	8
90	Na2/3MnO2 nanoplates with exposed active planes as superior electrochemical performance sodium-ion batteries. Ionics, 2021, 27, 5187-5196.	1.2	6

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91	Tin antimony oxide @graphene as a novel anode material for lithium ion batteries. Ceramics International, 2022, 48, 2118-2123.	2.3	6
92	Studies of Composite Cathode Material LiFePO4â€“Li3V2(PO4)3 and Itâ€™s Precursor FeVO4Â·xH2O. Bulletin of the Chemical Society of Japan, 2013, 86, 376-381.	2.0	5
93	Achieving structural stability of LiCoO2 at high-voltage by gadolinium decoration. Materials Today Energy, 2022, 25, 100980.	2.5	5
94	Low-temperature Electrochemical Performance of LiFePO4/C Cathode with 3D Conducting Networks. Chemistry Letters, 2012, 41, 232-233.	0.7	4
95	Preparation and electrochemical performance of 2LiFe1â€“xCoxPO4â€“Li3V2(PO4)3/C cathode material for lithium-ion batteries. Transactions of Nonferrous Metals Society of China, 2013, 23, 1028-1032.	1.7	2
96	High-performance quaternary polymer solid-state electrolyte via one-step casting method. Journal Physics D: Applied Physics, 2022, 55, 384002.	1.3	0