Zhanliang Tao

List of Publications by Year
in descending order

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93 papers	9,542 citations	41323 49 h-index	42364 92 g-index
93 all docs	93 docs citations	93 times ranked	10188 citing authors

#	Article	IF	Citations
1	Organic Electrode Materials for Rechargeable Lithium Batteries. Advanced Energy Materials, 2012, 2, 742-769.	10.2	1,125
2	FeSe₂ Microspheres as a Highâ€Performance Anode Material for Naâ€Ion Batteries. Advanced Materials, 2015, 27, 3305-3309.	11.1	581
3	Ultrasmall Sn Nanoparticles Embedded in Carbon as Highâ€Performance Anode for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2015, 25, 214-220.	7.8	498
4	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1701415.	10.2	436
5	Magnesiumâ€“air batteries: from principle to application. Materials Horizons, 2014, 1, 196-206.	6.4	371
6	MoS₂ Nanoflowers with Expanded Interlayers as Highâ€Performance Anodes for Sodiumâ€Ion Batteries. Angewandte Chemie, 2014, 126, 13008-13012.	1.6	310
7	Fused Heteroaromatic Organic Compounds for Highâ€Power Electrodes of Rechargeable Lithium Batteries. Advanced Energy Materials, 2013, 3, 600-605.	10.2	293
8	Aqueous Batteries Operated at â^'50â€‰Â°C. Angewandte Chemie - International Edition, 2019, 58, 16994-16999.	7.2	277
9	Porous LiMn2O4 nanorods with durable high-rate capability for rechargeable Li-ion batteries. Energy and Environmental Science, 2011, 4, 3668.	15.6	264
10	Composite of sulfur impregnated in porous hollow carbon spheres as the cathode of Li-S batteries with high performance. Nano Research, 2013, 6, 38-46.	5.8	232
11	Rechargeable Lithium-Iodine Batteries with Iodine/Nanoporous Carbon Cathode. Nano Letters, 2015, 15, 5982-5987.	4.5	201
12	Quasiâ€“solid state rechargeable Na-CO ₂ batteries with reduced graphene oxide Na anodes. Science Advances, 2017, 3, e1602396.	4.7	193
13	Facile Synthesis of Nanoporous Î³-MnO₂ Structures and Their Application in Rechargeable Li-Ion Batteries. Crystal Growth and Design, 2008, 8, 2799-2805.	1.4	178
14	First-Principles Study of Zigzag MoS₂ Nanoribbon As a Promising Cathode Material for Rechargeable Mg Batteries. Journal of Physical Chemistry C, 2012, 116, 1307-1312.	1.5	164
15	Layered Ca_{0.28}MnO₂Â·0.5H₂O as a High Performance Cathode for Aqueous Zincâ€Ion Battery. Small, 2020, 16, e2000597.	5.2	155
16	PtxNi1â^'x nanoparticles as catalysts for hydrogen generation from hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2009, 34, 8785-8791.	3.8	146
17	Facile synthesis and electrochemical sodium storage of CoS2 micro/nano-structures. Nano Research, 2016, 9, 198-206.	5.8	142
18	High-Capacity and Ultrafast Na-Ion Storage of a Self-Supported 3D Porous Antimony Persulfideâ€“Graphene Foam Architecture. Nano Letters, 2017, 17, 3668-3674.	4.5	129

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19	â€œWaterâ€inâ€Deep Eutectic Solventâ€•Electrolytes for Highâ€Performance Aqueous Znâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2102035.	7.8	126
20	Designing Electrolyte Structure to Suppress Hydrogen Evolution Reaction in Aqueous Batteries. ACS Energy Letters, 2021, 6, 2174-2180.	8.8	126
21	Orthoquinoneâ€“Based Covalent Organic Frameworks with Ordered Channel Structures for Ultrahigh Performance Aqueous Zincâ€“Organic Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	124
22	Selenium Phosphide (Se₄P₄) as a New and Promising Anode Material for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1601973.	10.2	122
23	A Soft Hydrogen Storage Material: Poly(Methyl Acrylate)â€Confined Ammonia Borane with Controllable Dehydrogenation. Advanced Materials, 2010, 22, 394-397.	11.1	111
24	FeS₂ microspheres with an ether-based electrolyte for high-performance rechargeable lithium batteries. Journal of Materials Chemistry A, 2015, 3, 12898-12904.	5.2	111
25	Na₃V₂(PO₄)₂F₃â€“SWCNT: a high voltage cathode for non-aqueous and aqueous sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 248-256.	5.2	111
26	SiO₂-coated LiNi_{0.915}Co_{0.075}Al_{0.01}O₂cathode material for rechargeable Li-ion batteries. Nanoscale, 2016, 8, 19263-19269.	2.8	108
27	Ultrasmall cobalt nanoparticles supported on nitrogen-doped porous carbon nanowires for hydrogen evolution from ammonia borane. Materials Horizons, 2017, 4, 268-273.	6.4	105
28	In situ atomic force microscopy study of nanoâ€“micro sodium deposition in ester-based electrolytes. Chemical Communications, 2018, 54, 2381-2384.	2.2	104
29	Cobalt nanoparticles embedded in porous N-doped carbon as long-life catalysts for hydrolysis of ammonia borane. Catalysis Science and Technology, 2016, 6, 3443-3448.	2.1	102
30	Ultrathin 2D TiS₂ Nanosheets for High Capacity and Longâ€Life Sodium Ion Batteries. Advanced Energy Materials, 2019, 9, 1803210.	10.2	100
31	All Carbon Dual Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 35978-35983.	4.0	93
32	An ultralow-temperature aqueous zinc-ion battery. Journal of Materials Chemistry A, 2021, 9, 7042-7047.	5.2	87
33	Carbon-supported Ni1â^'x@Ptx (xÂ=Â0.32, 0.43, 0.60, 0.67, and 0.80) coreâ€“shell nanoparticles as catalysts for hydrogen generation from hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2011, 36, 1984-1990.	3.8	79
34	Magnesium nanostructures for energy storage and conversion. Journal of Materials Chemistry, 2009, 19, 2877.	6.7	78
35	Inorganic & organic materials for rechargeable Li batteries with multi-electron reaction. Science China Materials, 2014, 57, 42-58.	3.5	78
36	Ultrahigh coulombic efficiency and long-life aqueous Zn anodes enabled by electrolyte additive of acetonitrile. Electrochimica Acta, 2020, 358, 136937.	2.6	78

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37	High Power and Energy Density Aqueous Proton Battery Operated at â^'90ÂÂ°C. Advanced Functional Materials, 2021, 31, 2010127.	7.8	77
38	CuCo nanoparticles supported on hierarchically porous carbon as catalysts for hydrolysis of ammonia borane. Journal of Alloys and Compounds, 2015, 651, 382-388.	2.8	75
39	Ni nanoparticles supported on carbon as efficient catalysts for the hydrolysis of ammonia borane. Nano Research, 2014, 7, 774-781.	5.8	74
40	Porous 0.2Li₂MnO₃Â·0.8LiNi_{0.5}Mn_{0.5}O₂nanorods as cathode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 1636-1640.	5.2	71
41	MoS₂ with an intercalation reaction as a long-life anode material for lithium ion batteries. Inorganic Chemistry Frontiers, 2016, 3, 532-535.	3.0	70
42	Issues and opportunities on low-temperature aqueous batteries. Chemical Engineering Journal, 2021, 423, 130253.	6.6	69
43	Synergistic Effect of Cation and Anion for Low-Temperature Aqueous Zinc-Ion Battery. Nano-Micro Letters, 2021, 13, 204.	14.4	67
44	Metallic Aluminum Nanorods: Synthesis via Vapor-Deposition and Applications in Al/air Batteries. Chemistry of Materials, 2007, 19, 5812-5814.	3.2	64
45	Improving zinc anode reversibility by hydrogen bond in hybrid aqueous electrolyte. Chemical Engineering Journal, 2022, 427, 131705.	6.6	61
46	An extended carbonyl-rich conjugated polymer cathode for high-capacity lithium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 2700-2705.	5.2	58
47	Ti/Si/Ti sandwich-like thin film as the anode of lithium-ion batteries. Journal of Power Sources, 2014, 248, 1141-1148.	4.0	55
48	A novel PMA/PEG-based composite polymer electrolyte for all-solid-state sodium ion batteries. Nano Research, 2018, 11, 6244-6251.	5.8	54
49	Facile synthesis of hierarchically porous carbons and their application as a catalyst support for methanol oxidation. Journal of Materials Chemistry, 2009, 19, 4108.	6.7	52
50	Flexible and Free-Standing Organic/Carbon Nanotubes Hybrid Films as Cathode for Rechargeable Lithium-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 14498-14506.	1.5	52
51	A phenazine anode for high-performance aqueous rechargeable batteries in a wide temperature range. Nano Research, 2020, 13, 676-683.	5.8	52
52	Size-controlled MoS2 nanodots supported on reduced graphene oxide for hydrogen evolution reaction and sodium-ion batteries. Nano Research, 2017, 10, 2210-2222.	5.8	50
53	All-Climate Aqueous Dual-Ion Hybrid Battery with Ultrahigh Rate and Ultralong Life Performance. ACS Applied Energy Materials, 2019, 2, 4370-4378.	2.5	50
54	Aqueous Batteries Operated at â^'50â€‰Â°C. Angewandte Chemie, 2019, 131, 17150-17155.	1.6	47

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55	Effects of Carbon Content on the Electrochemical Performances of MoS₂â€“C Nanocomposites for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 22168-22174.	4.0	46
56	Bipolar Organic Polymer for High Performance Symmetric Aqueous Proton Battery. Small Methods, 2021, 5, e2100367.	4.6	46
57	Flexible and Tailorable Naâ^'CO₂ Batteries Based on an Allâ€Solidâ€State Polymer Electrolyte. ChemElectroChem, 2018, 5, 3628-3632.	1.7	42
58	High-Performance Aqueous Sodium-Ion Batteries with Hydrogel Electrolyte and Alloxazine/CMK-3 Anode. ACS Sustainable Chemistry and Engineering, 2018, 6, 7761-7768.	3.2	41
59	Achieving a stable Na metal anode with a 3D carbon fibre scaffold. Inorganic Chemistry Frontiers, 2018, 5, 864-869.	3.0	40
60	Controllable synthesis and characterization of porous FeVO₄nanorods and nanoparticles. CrystEngComm, 2011, 13, 897-901.	1.3	37
61	A novel aqueous sodiumâ€“manganese battery system for energy storage. Journal of Materials Chemistry A, 2019, 7, 8122-8128.	5.2	36
62	Water cointercalation for high-energy-density aqueous zinc-ion battery based potassium manganite cathode. Journal of Power Sources, 2020, 478, 228758.	4.0	36
63	Alloxazine as anode material for high-performance aqueous ammonium-ion battery. Nano Research, 2022, 15, 2047-2051.	5.8	35
64	Nafion/Titanium Dioxideâ€Coated Lithium Anode for Stable Lithiumâ€“Sulfur Batteries. Chemistry - an Asian Journal, 2018, 13, 1379-1385.	1.7	34
65	Safety-reinforced rechargeable Li-CO2 battery based on a composite solid state electrolyte. Nano Research, 2019, 12, 2543-2548.	5.8	31
66	Recent progress and strategies toward high performance zinc-organic batteries. Journal of Energy Chemistry, 2021, 63, 87-112.	7.1	31
67	Magnesium microspheres and nanospheres: Morphology-controlled synthesis and application in Mg/MnO2 batteries. Nano Research, 2009, 2, 713-721.	5.8	30
68	The enhanced hydrogen storage of micro-nanostructured hybrids of Mg(BH₄)₂â€“carbon nanotubes. Nanoscale, 2015, 7, 18305-18311.	2.8	30
69	Orthoquinoneâ€“Based Covalent Organic Frameworks with Ordered Channel Structures for Ultrahigh Performance Aqueous Zincâ€–Organic Batteries. Angewandte Chemie, 2022, 134, .	1.6	29
70	Capillary-Induced Ge Uniformly Distributed in N-Doped Carbon Nanotubes with Enhanced Li-Storage Performance. Small, 2017, 13, 1700920.	5.2	27
71	Hydrogen Bond Shielding Effect for Highâ€Performance Aqueous Zinc Ion Batteries. Small, 2022, 18, e2107115.	5.2	27
72	In Situ Atomic Force Microscopic Studies of Single Tin Nanoparticle: Sodiation and Desodiation in Liquid Electrolyte. ACS Applied Materials & Interfaces, 2017, 9, 28620-28626.	4.0	26

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73	An inverse-spinel Mg₂MnO₄ cathode for high-performance and flexible aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2020, 8, 22686-22693.	5.2	25
74	Siâ€“Y multi-layer thin films as anode materials of high-capacity lithium-ion batteries. Journal of Power Sources, 2012, 217, 102-107.	4.0	20
75	Hydrothermal synthesis of spindle-like Li2FeSiO4-C composite as cathode materials for lithium-ion batteries. Journal of Energy Chemistry, 2014, 23, 274-281.	7.1	19
76	Preparation and characterization of LiNi 0.8 Co 0.15 Al 0.05 O 2 with high cycling stability by using AlO 2 - as Al source. Ceramics International, 2017, 43, 3885-3892.	2.3	19
77	An Overcrowded Water-Ion Solvation Structure for a Robust Anode Interphase in Aqueous Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 51048-51056.	4.0	18
78	Snâ€“Al coreâ€“shell nanocomposite as thin film anode for lithium-ion batteries. Journal of Alloys and Compounds, 2015, 644, 742-749.	2.8	17
79	Insights into the hydronium-ion storage of alloxazine in mild electrolyte. Journal of Materials Chemistry A, 2020, 8, 21983-21987.	5.2	17
80	Functionalized Boron Nitride-Based Modification Layer as Ion Regulator Toward Stable Lithium Anode at High Current Densities. ACS Applied Materials & Interfaces, 2021, 13, 391-399.	4.0	17
81	MoS₂-modified graphite felt as a high performance electrode material for zincâ€“polyiodide redox flow batteries. Inorganic Chemistry Frontiers, 2019, 6, 731-735.	3.0	17
82	Intergrown LiNi0.5Mn1.5O4Â·LiNi1/3Co1/3Mn1/3O2 composite nanorods as high-energy density cathode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 13742.	5.2	16
83	Inverse-spinel Mg2MnO4 material as cathode for high-performance aqueous magnesium-ion battery. Journal of Power Sources, 2021, 515, 230643.	4.0	16
84	Preparation of Li4Ti5O12 submicrospheres and their application as anode materials of rechargeable lithium-ion batteries. Science China Chemistry, 2011, 54, 936-940.	4.2	15
85	Organic Electrodes: Organic Electrode Materials for Rechargeable Lithium Batteries (Adv. Energy) Tj ETQq1 1 0.784314 rgBT /Overloc	10.2	14
86	Three-dimensional lithiophilic Cu@Sn nanocones for dendrite-free lithium metal anodes. Science China Materials, 2021, 64, 1087-1094.	3.5	13
87	Ion Redistribution and Rapid-Transfer Composite Protective Layer for Stable Lithium Metal Anodes. ACS Applied Energy Materials, 2020, 3, 7257-7264.	2.5	12
88	Synthesis, characterization and hydrogen storage capacity of MS2 (M = Mo, Ti) nanotubes. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2006, 1, 260-263.	0.4	10
89	KTiOPO4 as a novel anode material for sodium-ion batteries. Journal of Alloys and Compounds, 2018, 754, 147-152.	2.8	8
90	Energy Storage: Ultrasmall Sn Nanoparticles Embedded in Carbon as Highâ€Performance Anode for Sodiumâ€Ion Batteries (Adv. Funct. Mater. 2/2015). Advanced Functional Materials, 2015, 25, 340-340.	7.8	4

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91	A highly efficient cathode catalyst Î³-MnO2@CNT composite for sodium-air batteries. Science China Chemistry, 2019, 62, 727-731.	4.2	3
92	Mg micro/nanoscale materials with sphere-like morphologies: Size-controlled synthesis and characterization. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 35-39.	0.2	2
93	NANOSTRUCTURED ELECTRODE MATERIALS FOR LITHIUM BATTERIES. , 2011, , 85-126.		0