Jinqiang Zhang

List of Publications by Year
in descending order

74 papers	8,401 citations	47409 49 h-index	90395 73 g-index
76 all docs	76 docs citations	76 times ranked	12472 citing authors

#	Article	IF	Citations
1	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism. Science Advances, 2022, 8, eabm1899.	4.7	26
2	MXene-Based Aerogel Anchored with Antimony Single Atoms and Quantum Dots for High-Performance Potassium-Ion Batteries. Nano Letters, 2022, 22, 1225-1232.	4.5	64
3	Reaktionsmechanismen Lithiumâ€reicher Schichtâ€Kathodenmaterialien fÃ¼r Hochenergieâ€Lithiumâ€Ionenbatterien. Angewandte Chemie, 2021, 133, 2236-2248.	1.6	4
4	Reaction Mechanisms of Layered Lithiumâ€Rich Cathode Materials for Highâ€Energy Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 2208-2220.	7.2	170
5	Nitronyl Nitroxide-Based Redox Mediators for Li-O2 Batteries. Journal of Physical Chemistry C, 2021, 125, 2824-2830.	1.5	10
6	Phosphorus and Oxygen Dualâ€Doped Porous Carbon Spheres with Enhanced Reaction Kinetics as Anode Materials for Highâ€Performance Potassiumâ€Ion Hybrid Capacitors. Advanced Functional Materials, 2021, 31, 2102060.	7.8	96
7	Cobalt-embedded hierarchically-porous hollow carbon microspheres as multifunctional confined reactors for high-loading Li-S batteries. Nano Energy, 2021, 85, 105981.	8.2	85
8	Anchoring Sites Engineering in Singleâ€Atom Catalysts for Highly Efficient Electrochemical Energy Conversion Reactions. Advanced Materials, 2021, 33, e2102801.	11.1	64
9	Constructing Atomic Heterometallic Sites in Ultrathin Nickel-Incorporated Cobalt Phosphide Nanosheets via a Boron-Assisted Strategy for Highly Efficient Water Splitting. Nano Letters, 2021, 21, 823-832.	4.5	91
10	2D Superlattices for Efficient Energy Storage and Conversion. Advanced Materials, 2020, 32, e1902654.	11.1	117
11	K₂Ti₂O₅@C Microspheres with Enhanced K⁺ Intercalation Pseudocapacitance Ensuring Fast Potassium Storage and Longâ€Term Cycling Stability. Small, 2020, 16, e1906131.	5.2	49
12	Immunizing lithium metal anodes against dendrite growth using protein molecules to achieve high energy batteries. Nature Communications, 2020, 11, 5429.	5.8	129
13	Unraveling the Promotion Effects of a Soluble Cobaltocene Catalyst with Respect to Liâ€“O₂ Battery Discharge. Journal of Physical Chemistry Letters, 2020, 11, 7028-7034.	2.1	14
14	A Stable Conversion and Alloying Anode for Potassiumâ€Ion Batteries: A Combined Strategy of Encapsulation and Confinement. Advanced Functional Materials, 2020, 30, 2001588.	7.8	104
15	The antidepressant effects of asperosaponin VI are mediated by the suppression of microglial activation and reduction of TLR4/NF-ÎºB-induced IDO expression. Psychopharmacology, 2020, 237, 2531-2545.	1.5	22
16	Boosting Sodium Storage in Two-Dimensional Phosphorene/Ti₃C₂T_x MXene Nanoarchitectures with Stable Fluorinated Interphase. ACS Nano, 2020, 14, 3651-3659.	7.3	155
17	Strain engineering of two-dimensional multilayered heterostructures for beyond-lithium-based rechargeable batteries. Nature Communications, 2020, 11, 3297.	5.8	134
18	Dendrite-Free Sodium Metal Batteries Enabled by the Release of Contact Strain on Flexible and Sodiophilic Matrix. Nano Letters, 2020, 20, 6112-6119.	4.5	42

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19	TEMPO-Ionic Liquids as Redox Mediators and Solvents for Liâ€“O₂ Batteries. Journal of Physical Chemistry C, 2020, 124, 5087-5092.	1.5	23
20	Recent progress on flexible lithium metal batteries: Composite lithium metal anodes and solid-state electrolytes. Energy Storage Materials, 2020, 29, 310-331.	9.5	63
21	Interface Engineering of MXene Composite Separator for Highâ€Performance Liâ€“Se and Naâ€“Se Batteries. Advanced Energy Materials, 2020, 10, 2000446.	10.2	94
22	Maternal immune activation-induced PPARÎ³-dependent dysfunction of microglia associated with neurogenic impairment and aberrant postnatal behaviors in offspring. Neurobiology of Disease, 2019, 125, 1-13.	2.1	57
23	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. Nature Communications, 2019, 10, 602.	5.8	138
24	Ultrathin Porous NiCo₂O₄ Nanosheets for Lithiumâ€“Oxygen Batteries: An Excellent Performance Deriving from an Enhanced Solution Mechanism. ACS Applied Energy Materials, 2019, 2, 4215-4223.	2.5	18
25	Interface Modulation of Two-Dimensional Superlattices for Efficient Overall Water Splitting. Nano Letters, 2019, 19, 4518-4526.	4.5	191
26	Porous Mo2C nanorods as an efficient catalyst for the hydrogen evolution reaction. Journal of Physics and Chemistry of Solids, 2019, 132, 230-235.	1.9	32
27	Minocycline inhibits microglial activation and alleviates depressive-like behaviors in male adolescent mice subjected to maternal separation. Psychoneuroendocrinology, 2019, 107, 37-45.	1.3	76
28	A nitrogen, sulphur dual-doped hierarchical porous carbon with interconnected conductive polyaniline coating for high-performance sodium-selenium batteries. Energy Storage Materials, 2019, 19, 251-260.	9.5	60
29	P doped MoS2 nanoplates embedded in nitrogen doped carbon nanofibers as an efficient catalyst for hydrogen evolution reaction. Journal of Colloid and Interface Science, 2019, 547, 291-298.	5.0	33
30	Squalene-derived sulfur-rich copolymer@ 3D graphene-carbon nanotube network cathode for high-performance lithium-sulfur batteries. Polyhedron, 2019, 162, 147-154.	1.0	23
31	Rational design of free-standing 3D porous MXene/rGO hybrid aerogels as polysulfide reservoirs for high-energy lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 6507-6513.	5.2	226
32	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. Journal of the American Chemical Society, 2019, 141, 20118-20126.	6.6	683
33	Conformal carbon coating on WS2 nanotubes for excellent electrochemical performance of lithium-ion batteries. Nanotechnology, 2019, 30, 035401.	1.3	5
34	Switching of the Microglial Activation Phenotype Is a Possible Treatment for Depression Disorder. Frontiers in Cellular Neuroscience, 2018, 12, 306.	1.8	214
35	Two-Dimensional Unilamellar Cation-Deficient Metal Oxide Nanosheet Superlattices for High-Rate Sodium Ion Energy Storage. ACS Nano, 2018, 12, 12337-12346.	7.3	111
36	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. Nature Catalysis, 2018, 1, 985-992.	16.1	1,236

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37	Cobalt-doped MnO2 ultrathin nanosheets with abundant oxygen vacancies supported on functionalized carbon nanofibers for efficient oxygen evolution. Nano Energy, 2018, 54, 129-137.	8.2	182
38	Aegis of Lithium-Rich Cathode Materials via Heterostructured LiAlF₄ Coating for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 33260-33268.	4.0	74
39	Next-Generation Rechargeable Batteries: Challenges for Developing Rechargeable Room-Temperature Sodium Oxygen Batteries (Adv. Mater. Technol. 9/2018). Advanced Materials Technologies, 2018, 3, 1870035.	3.0	2
40	MXene encapsulated titanium oxide nanospheres for ultra-stable and fast sodium storage. Energy Storage Materials, 2018, 14, 306-313.	9.5	119
41	Dendriteâ€Free Sodiumâ€Metal Anodes for Highâ€Energy Sodiumâ€Metal Batteries. Advanced Materials, 2018, 30, e1801334.	11.1	267
42	Entrapping polysulfides by using ultrathin hollow carbon sphere-functionalized separators in high-rate lithium-sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 16610-16616.	5.2	76
43	Challenges for Developing Rechargeable Roomâ€Temperature Sodium Oxygen Batteries. Advanced Materials Technologies, 2018, 3, 1800110.	3.0	29
44	Modified Tetrathiafulvalene as an Organic Conductor for Improving Performances of Liâ^'O₂ Batteries. Angewandte Chemie - International Edition, 2017, 56, 8505-8509.	7.2	90
45	Modified Tetrathiafulvalene as an Organic Conductor for Improving Performances of Liâ^'O 2 Batteries. Angewandte Chemie, 2017, 129, 8625-8629.	1.6	11
46	3D Interconnected Carbon Fiber Networkâ€Enabled Ultralong Life Na₃V₂(PO₄)₃@Carbon Paper Cathode for Sodiumâ€Ion Batteries. Small, 2017, 13, 1603318.	5.2	72
47	A multi-functional gel co-polymer bridging liquid electrolyte and solid cathode nanoparticles: An efficient route to Liâ€“O 2 batteries with improved performance. Energy Storage Materials, 2017, 7, 1-7.	9.5	30
48	Fe₃C@nitrogen doped CNT arrays aligned on nitrogen functionalized carbon nanofibers as highly efficient catalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 19672-19679.	5.2	109
49	Salvianolic acid B promotes microglial M2-polarization and rescues neurogenesis in stress-exposed mice. Brain, Behavior, and Immunity, 2017, 66, 111-124.	2.0	93
50	Ruthenium decorated hierarchically ordered macroâ€“mesoporous carbon for lithium oxygen batteries. Journal of Materials Chemistry A, 2016, 4, 9774-9780.	5.2	42
51	Electrospun cobalt embedded porous nitrogen doped carbon nanofibers as an efficient catalyst for water splitting. Journal of Materials Chemistry A, 2016, 4, 12818-12824.	5.2	87
52	The antidepressant-like effects of pioglitazone in a chronic mild stress mouse model are associated with PPARÎ³-mediated alteration of microglial activation phenotypes. Journal of Neuroinflammation, 2016, 13, 259.	3.1	103
53	Organic sodium terephthalate@graphene hybrid anode materials for sodium-ion batteries. RSC Advances, 2016, 6, 57098-57102.	1.7	49
54	A Bifunctional Organic Redox Catalyst for Rechargeable Lithiumâ€“Oxygen Batteries with Enhanced Performances. Advanced Science, 2016, 3, 1500285.	5.6	37

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55	Phenotypic dysregulation of microglial activation in young offspring rats with maternal sleep deprivation-induced cognitive impairment. Scientific Reports, 2015, 5, 9513.	1.6	70
56	MoS₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. Chemistry - A European Journal, 2015, 21, 15908-15913.	1.7	99
57	Frontispiece: MoS₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. Chemistry - A European Journal, 2015, 21, .	1.7	0
58	Enhancement of stability for lithium oxygen batteries by employing electrolytes gelled by poly(vinylidene fluoride-co-hexafluoropropylene) and tetraethylene glycol dimethyl ether. Electrochimica Acta, 2015, 183, 56-62.	2.6	58
59	A comparative investigation on the effects of nitrogen-doping into graphene on enhancing the electrochemical performance of SnO₂/graphene for sodium-ion batteries. Nanoscale, 2015, 7, 3164-3172.	2.8	130
60	MoS₂/Graphene Composite Anodes with Enhanced Performance for Sodiumâ€Ion Batteries: The Role of the Twoâ€Dimensional Heterointerface. Advanced Functional Materials, 2015, 25, 1393-1403.	7.8	657
61	Sn@CNT nanopillars grown perpendicularly on carbon paper: A novel free-standing anode for sodium ion batteries. Nano Energy, 2015, 13, 208-217.	8.2	185
62	Polypyrrole hollow nanospheres: stable cathode materials for sodium-ion batteries. Chemical Communications, 2015, 51, 16092-16095.	2.2	68
63	SnS₂ Nanoplatelet@Graphene Nanocomposites as Highâ€Capacity Anode Materials for Sodiumâ€Ion Batteries. Chemistry - an Asian Journal, 2014, 9, 1611-1617.	1.7	166
64	Batteries: 3D Hyperbranched Hollow Carbon Nanorod Architectures for High-Performance Lithium-Sulfur Batteries (Adv. Energy Mater. 8/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	10.2	2
65	Synthesis of Singleâ€Crystalline Spinel LiMn₂O₄ Nanorods for Lithiumâ€Ion Batteries with High Rate Capability and Long Cycle Life. Chemistry - A European Journal, 2014, 20, 17125-17131.	1.7	32
66	3D Hyperbranched Hollow Carbon Nanorod Architectures for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301761.	10.2	154
67	Multi-shelled hollow carbon nanospheres for lithiumâ€“sulfur batteries with superior performances. Journal of Materials Chemistry A, 2014, 2, 16199-16207.	5.2	116
68	An optimized LiNO3/DMSO electrolyte for high-performance rechargeable Liâ€“O2 batteries. RSC Advances, 2014, 4, 11115.	1.7	60
69	Microwave-assisted synthesis of spherical Î²-Ni(OH) 2 superstructures for electrochemical capacitors with excellent cycling stability. Chemical Physics Letters, 2014, 610-611, 115-120.	1.2	25
70	Hierarchical macroporous/mesoporous NiCo₂O₄nanosheets as cathode catalysts for rechargeable Liâ€“O₂batteries. Journal of Materials Chemistry A, 2014, 2, 12053.	5.2	82
71	Porous poly(vinylidene fluoride-co-hexafluoropropylene) polymer membrane with sandwich-like architecture for highly safe lithium ion batteries. Journal of Membrane Science, 2014, 472, 133-140.	4.1	75
72	Honeycomb-like porous gel polymer electrolyte membrane for lithium ion batteries with enhanced safety. Scientific Reports, 2014, 4, 6007.	1.6	165

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73	Hierarchical NiCo2O4 nanorods as an efficient cathode catalyst for rechargeable non-aqueous Liâ€“O2 batteries. Electrochemistry Communications, 2013, 31, 88-91.	2.3	99
74	Conducting polymer-doped polyprrrole as an effective cathode catalyst for Li-O2 batteries. Materials Research Bulletin, 2013, 48, 4979-4983.	2.7	25