

Jinqiang Zhang

List of Publications by Year in descending order

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74
papers

8,401
citations

41344

49
h-index

79698

73
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76
all docs

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docs citations

76
times ranked

10827
citing authors

#	ARTICLE	IF	CITATIONS
1	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. <i>Nature Catalysis</i> , 2018, 1, 985-992.	34.4	1,236
2	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 20118-20126.	13.7	683
3	MoS ₂ /Graphene Composite Anodes with Enhanced Performance for Sodium-Ion Batteries: The Role of the Two-Dimensional Heterointerface. <i>Advanced Functional Materials</i> , 2015, 25, 1393-1403.	14.9	657
4	Dendrite-Free Sodium-Metal Anodes for High-Energy Sodium-Metal Batteries. <i>Advanced Materials</i> , 2018, 30, e1801334.	21.0	267
5	Rational design of free-standing 3D porous MXene/rGO hybrid aerogels as polysulfide reservoirs for high-energy lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6507-6513.	10.3	226
6	Switching of the Microglial Activation Phenotype Is a Possible Treatment for Depression Disorder. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 306.	3.7	214
7	Interface Modulation of Two-Dimensional Superlattices for Efficient Overall Water Splitting. <i>Nano Letters</i> , 2019, 19, 4518-4526.	9.1	191
8	Sn@CNT nanopillars grown perpendicularly on carbon paper: A novel free-standing anode for sodium ion batteries. <i>Nano Energy</i> , 2015, 13, 208-217.	16.0	185
9	Cobalt-doped MnO ₂ ultrathin nanosheets with abundant oxygen vacancies supported on functionalized carbon nanofibers for efficient oxygen evolution. <i>Nano Energy</i> , 2018, 54, 129-137.	16.0	182
10	Reaction Mechanisms of Layered Lithium-Rich Cathode Materials for High-Energy Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2208-2220.	13.8	170
11	SnS ₂ Nanoplatelet@Graphene Nanocomposites as High-Capacity Anode Materials for Sodium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1611-1617.	3.3	166
12	Honeycomb-like porous gel polymer electrolyte membrane for lithium ion batteries with enhanced safety. <i>Scientific Reports</i> , 2014, 4, 6007.	3.3	165
13	Boosting Sodium Storage in Two-Dimensional Phosphorene/Ti ₃ C ₂ T _x MXene Nanoarchitectures with Stable Fluorinated Interphase. <i>ACS Nano</i> , 2020, 14, 3651-3659.	14.6	155
14	3D Hyperbranched Hollow Carbon Nanorod Architectures for High-Performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301761.	19.5	154
15	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. <i>Nature Communications</i> , 2019, 10, 602.	12.8	138
16	Strain engineering of two-dimensional multilayered heterostructures for beyond-lithium-based rechargeable batteries. <i>Nature Communications</i> , 2020, 11, 3297.	12.8	134
17	A comparative investigation on the effects of nitrogen-doping into graphene on enhancing the electrochemical performance of SnO ₂ /graphene for sodium-ion batteries. <i>Nanoscale</i> , 2015, 7, 3164-3172.	5.6	130
18	Immunizing lithium metal anodes against dendrite growth using protein molecules to achieve high energy batteries. <i>Nature Communications</i> , 2020, 11, 5429.	12.8	129

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19	MXene encapsulated titanium oxide nanospheres for ultra-stable and fast sodium storage. <i>Energy Storage Materials</i> , 2018, 14, 306-313.	18.0	119
20	2D Superlattices for Efficient Energy Storage and Conversion. <i>Advanced Materials</i> , 2020, 32, e1902654.	21.0	117
21	Multi-shelled hollow carbon nanospheres for lithium-sulfur batteries with superior performances. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16199-16207.	10.3	116
22	Two-Dimensional Unilamellar Cation-Deficient Metal Oxide Nanosheet Superlattices for High-Rate Sodium Ion Energy Storage. <i>ACS Nano</i> , 2018, 12, 12337-12346.	14.6	111
23	Fe ₃ C@nitrogen doped CNT arrays aligned on nitrogen functionalized carbon nanofibers as highly efficient catalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19672-19679.	10.3	109
24	A Stable Conversion and Alloying Anode for Potassium-Ion Batteries: A Combined Strategy of Encapsulation and Confinement. <i>Advanced Functional Materials</i> , 2020, 30, 2001588.	14.9	104
25	The antidepressant-like effects of pioglitazone in a chronic mild stress mouse model are associated with PPAR γ -mediated alteration of microglial activation phenotypes. <i>Journal of Neuroinflammation</i> , 2016, 13, 259.	7.2	103
26	Hierarchical NiCo ₂ O ₄ nanorods as an efficient cathode catalyst for rechargeable non-aqueous Li-O ₂ batteries. <i>Electrochemistry Communications</i> , 2013, 31, 88-91.	4.7	99
27	MoS ₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2015, 21, 15908-15913.	3.3	99
28	Phosphorus and Oxygen Dual-Doped Porous Carbon Spheres with Enhanced Reaction Kinetics as Anode Materials for High-Performance Potassium-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2021, 31, 2102060.	14.9	96
29	Interface Engineering of MXene Composite Separator for High-Performance Li-Se and Na-Se Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000446.	19.5	94
30	Salvianolic acid B promotes microglial M2-polarization and rescues neurogenesis in stress-exposed mice. <i>Brain, Behavior, and Immunity</i> , 2017, 66, 111-124.	4.1	93
31	Constructing Atomic Heterometallic Sites in Ultrathin Nickel-Incorporated Cobalt Phosphide Nanosheets via a Boron-Assisted Strategy for Highly Efficient Water Splitting. <i>Nano Letters</i> , 2021, 21, 823-832.	9.1	91
32	Modified Tetrathiafulvalene as an Organic Conductor for Improving Performances of Li ⁺ O ₂ Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8505-8509.	13.8	90
33	Electrospun cobalt embedded porous nitrogen doped carbon nanofibers as an efficient catalyst for water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12818-12824.	10.3	87
34	Cobalt-embedded hierarchically-porous hollow carbon microspheres as multifunctional confined reactors for high-loading Li-S batteries. <i>Nano Energy</i> , 2021, 85, 105981.	16.0	85
35	Hierarchical macroporous/mesoporous NiCo ₂ O ₄ nanosheets as cathode catalysts for rechargeable Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12053.	10.3	82
36	Entrapping polysulfides by using ultrathin hollow carbon sphere-functionalized separators in high-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16610-16616.	10.3	76

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37	Minocycline inhibits microglial activation and alleviates depressive-like behaviors in male adolescent mice subjected to maternal separation. <i>Psychoneuroendocrinology</i> , 2019, 107, 37-45.	2.7	76
38	Porous poly(vinylidene fluoride-co-hexafluoropropylene) polymer membrane with sandwich-like architecture for highly safe lithium ion batteries. <i>Journal of Membrane Science</i> , 2014, 472, 133-140.	8.2	75
39	Aegis of Lithium-Rich Cathode Materials via Heterostructured LiAlF_4 Coating for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33260-33268.	8.0	74
40	3D Interconnected Carbon Fiber Network Enabled Ultralong Life $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ @Carbon Paper Cathode for Sodium-Ion Batteries. <i>Small</i> , 2017, 13, 1603318.	10.0	72
41	Phenotypic dysregulation of microglial activation in young offspring rats with maternal sleep deprivation-induced cognitive impairment. <i>Scientific Reports</i> , 2015, 5, 9513.	3.3	70
42	Polypyrrole hollow nanospheres: stable cathode materials for sodium-ion batteries. <i>Chemical Communications</i> , 2015, 51, 16092-16095.	4.1	68
43	Anchoring Sites Engineering in Single-Atom Catalysts for Highly Efficient Electrochemical Energy Conversion Reactions. <i>Advanced Materials</i> , 2021, 33, e2102801.	21.0	64
44	MXene-Based Aerogel Anchored with Antimony Single Atoms and Quantum Dots for High-Performance Potassium-Ion Batteries. <i>Nano Letters</i> , 2022, 22, 1225-1232.	9.1	64
45	Recent progress on flexible lithium metal batteries: Composite lithium metal anodes and solid-state electrolytes. <i>Energy Storage Materials</i> , 2020, 29, 310-331.	18.0	63
46	An optimized $\text{LiNO}_3/\text{DMSO}$ electrolyte for high-performance rechargeable Li-O_2 batteries. <i>RSC Advances</i> , 2014, 4, 11115.	3.6	60
47	A nitrogen, sulphur dual-doped hierarchical porous carbon with interconnected conductive polyaniline coating for high-performance sodium-selenium batteries. <i>Energy Storage Materials</i> , 2019, 19, 251-260.	18.0	60
48	Enhancement of stability for lithium oxygen batteries by employing electrolytes gelled by poly(vinylidene fluoride-co-hexafluoropropylene) and tetraethylene glycol dimethyl ether. <i>Electrochimica Acta</i> , 2015, 183, 56-62.	5.2	58
49	Maternal immune activation-induced PPAR β -dependent dysfunction of microglia associated with neurogenic impairment and aberrant postnatal behaviors in offspring. <i>Neurobiology of Disease</i> , 2019, 125, 1-13.	4.4	57
50	Organic sodium terephthalate@graphene hybrid anode materials for sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 57098-57102.	3.6	49
51	$\text{K}_2\text{Ti}_2\text{O}_5$ @C Microspheres with Enhanced K^+ Intercalation Pseudocapacitance Ensuring Fast Potassium Storage and Long-Term Cycling Stability. <i>Small</i> , 2020, 16, e1906131.	10.0	49
52	Ruthenium decorated hierarchically ordered macro-mesoporous carbon for lithium oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9774-9780.	10.3	42
53	Dendrite-Free Sodium Metal Batteries Enabled by the Release of Contact Strain on Flexible and Sodiophilic Matrix. <i>Nano Letters</i> , 2020, 20, 6112-6119.	9.1	42
54	A Bifunctional Organic Redox Catalyst for Rechargeable Lithium-Oxygen Batteries with Enhanced Performances. <i>Advanced Science</i> , 2016, 3, 1500285.	11.2	37

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55	P doped MoS ₂ nanoplates embedded in nitrogen doped carbon nanofibers as an efficient catalyst for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 291-298.	9.4	33
56	Synthesis of Single-Crystalline Spinel LiMn ₂ O ₄ Nanorods for Lithium-Ion Batteries with High Rate Capability and Long Cycle Life. <i>Chemistry - A European Journal</i> , 2014, 20, 17125-17131.	3.3	32
57	Porous Mo ₂ C nanorods as an efficient catalyst for the hydrogen evolution reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 132, 230-235.	4.0	32
58	A multi-functional gel co-polymer bridging liquid electrolyte and solid cathode nanoparticles: An efficient route to Li-O ₂ batteries with improved performance. <i>Energy Storage Materials</i> , 2017, 7, 1-7.	18.0	30
59	Challenges for Developing Rechargeable Room-Temperature Sodium Oxygen Batteries. <i>Advanced Materials Technologies</i> , 2018, 3, 1800110.	5.8	29
60	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism. <i>Science Advances</i> , 2022, 8, eabm1899.	10.3	26
61	Conducting polymer-doped polyprrole as an effective cathode catalyst for Li-O ₂ batteries. <i>Materials Research Bulletin</i> , 2013, 48, 4979-4983.	5.2	25
62	Microwave-assisted synthesis of spherical Ni(OH) ₂ superstructures for electrochemical capacitors with excellent cycling stability. <i>Chemical Physics Letters</i> , 2014, 610-611, 115-120.	2.6	25
63	Squalene-derived sulfur-rich copolymer@ 3D graphene-carbon nanotube network cathode for high-performance lithium-sulfur batteries. <i>Polyhedron</i> , 2019, 162, 147-154.	2.2	23
64	TEMPO-Ionic Liquids as Redox Mediators and Solvents for Li-O ₂ Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5087-5092.	3.1	23
65	The antidepressant effects of asperosaponin VI are mediated by the suppression of microglial activation and reduction of TLR4/NF- κ B-induced IDO expression. <i>Psychopharmacology</i> , 2020, 237, 2531-2545.	3.1	22
66	Ultrathin Porous NiCo ₂ O ₄ Nanosheets for Lithium-Oxygen Batteries: An Excellent Performance Deriving from an Enhanced Solution Mechanism. <i>ACS Applied Energy Materials</i> , 2019, 2, 4215-4223.	5.1	18
67	Unraveling the Promotion Effects of a Soluble Cobaltocene Catalyst with Respect to Li-O ₂ Battery Discharge. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7028-7034.	4.6	14
68	Modified Tetrathiafulvalene as an Organic Conductor for Improving Performances of Li-O ₂ Batteries. <i>Angewandte Chemie</i> , 2017, 129, 8625-8629.	2.0	11
69	Nitronyl Nitroxide-Based Redox Mediators for Li-O ₂ Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2824-2830.	3.1	10
70	Conformal carbon coating on WS ₂ nanotubes for excellent electrochemical performance of lithium-ion batteries. <i>Nanotechnology</i> , 2019, 30, 035401.	2.6	5
71	Reaktionsmechanismen Lithium-reicher Schicht-Kathodenmaterialien für Hochenergie-Lithium-Ionenbatterien. <i>Angewandte Chemie</i> , 2021, 133, 2236-2248.	2.0	4
72	Batteries: 3D Hyperbranched Hollow Carbon Nanorod Architectures for High-Performance Lithium-Sulfur Batteries (Adv. Energy Mater. 8/2014). <i>Advanced Energy Materials</i> , 2014, 4, n/a-n/a.	19.5	2

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73	Next-Generation Rechargeable Batteries: Challenges for Developing Rechargeable Room-Temperature Sodium Oxygen Batteries (Adv. Mater. Technol. 9/2018). Advanced Materials Technologies, 2018, 3, 1870035.	5.8	2
74	Frontispiece: MoS ₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. Chemistry - A European Journal, 2015, 21, .	3.3	0