Zhao-Yin Wen

List of Publications by Year
in descending order

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259 papers	13,903 citations	14614 66 h-index	30010 103 g-index
259 all docs	259 docs citations	259 times ranked	11250 citing authors

#	Article	IF	Citations
1	Improved cycling performances of lithium sulfur batteries with LiNO3-modified electrolyte. Journal of Power Sources, 2011, 196, 9839-9843.	4.0	457
2	A lithium anode protection guided highly-stable lithiumâ€“sulfur battery. Chemical Communications, 2014, 50, 14209-14212.	2.2	350
3	A free-standing-type design for cathodes of rechargeable Liâ€“O2 batteries. Energy and Environmental Science, 2011, 4, 4727.	15.6	286
4	Constructing Highly Oriented Configuration by Few-Layer MoS₂: Toward High-Performance Lithium-Ion Batteries and Hydrogen Evolution Reactions. ACS Nano, 2015, 9, 12464-12472.	7.3	259
5	Electrochemical behaviors of a Li3N modified Li metal electrode in secondary lithium batteries. Journal of Power Sources, 2011, 196, 8091-8097.	4.0	255
6	Vinylene carbonateâ€“LiNO3: A hybrid additive in carbonic ester electrolytes for SEI modification on Li metal anode. Electrochemistry Communications, 2015, 51, 59-63.	2.3	241
7	A nano-structured and highly ordered polypyrrole-sulfur cathode for lithiumâ€“sulfur batteries. Journal of Power Sources, 2011, 196, 6951-6955.	4.0	240
8	Highly dispersed sulfur in ordered mesoporous carbon sphere as a composite cathode for rechargeable polymer Li/S battery. Journal of Power Sources, 2011, 196, 3655-3658.	4.0	240
9	Preparation and electrochemical performance of Ag doped Li4Ti5O12. Electrochemistry Communications, 2004, 6, 1093-1097.	2.3	234
10	Lithium Ion-Conducting Glass?Ceramics of Li1.5Al0.5Ge1.5(PO4)3?xLi2O (x=0.0?0.20) with Good Electrical and Electrochemical Properties. Journal of the American Ceramic Society, 2007, 90, 2802-2806.	1.9	223
11	Main Challenges for High Performance NAS Battery: Materials and Interfaces. Advanced Functional Materials, 2013, 23, 1005-1018.	7.8	206
12	In Situ Generated Fireproof Gel Polymer Electrolyte with Li_{6.4}Ga_{0.2}La₃Zr₂O₁₂ As Initiator and Ionâ€Conductive Filler. Advanced Energy Materials, 2019, 9, 1900611.	10.2	185
13	A shuttle effect free lithium sulfur battery based on a hybrid electrolyte. Physical Chemistry Chemical Physics, 2014, 16, 21225-21229.	1.3	171
14	Research on sodium sulfur battery for energy storage. Solid State Ionics, 2008, 179, 1697-1701.	1.3	164
15	Enhanced performance of lithium sulfur battery with self-assembly polypyrrole nanotube film as the functional interlayer. Journal of Power Sources, 2015, 273, 511-516.	4.0	159
16	An in situ element permeation constructed high endurance Liâ€“LLZO interface at high current densities. Journal of Materials Chemistry A, 2018, 6, 18853-18858.	5.2	157
17	A potassium-rich iron hexacyanoferrate/dipotassium terephthalate@carbon nanotube composite used for K-ion full-cells with an optimized electrolyte. Journal of Materials Chemistry A, 2017, 5, 19017-19024.	5.2	146
18	Enhanced performance of lithium sulfur battery with polypyrrole warped mesoporous carbon/sulfur composite. Journal of Power Sources, 2014, 254, 353-359.	4.0	140

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19	Unraveling the Catalytic Mechanism of Co₃O₄ for the Oxygen Evolution Reaction in a Liâ€“O₂ Battery. ACS Catalysis, 2015, 5, 73-81.	5.5	140
20	Acid induced conversion towards a robust and lithiophilic interface for Liâ€“Li₇La₃Zr₂O₁₂ solid-state batteries. Journal of Materials Chemistry A, 2019, 7, 14565-14574.	5.2	138
21	A composite of sulfur and polypyrroleâ€“multi walled carbon combinatorial nanotube as cathode for Li/S battery. Journal of Power Sources, 2012, 206, 409-413.	4.0	135
22	Enhanced cycle performance of Liâ€“S battery with a polypyrrole functional interlayer. Journal of Power Sources, 2014, 267, 542-546.	4.0	133
23	Composite Solid Polymer Electrolyte with Garnet Nanosheets in Poly(ethylene oxide). ACS Sustainable Chemistry and Engineering, 2019, 7, 7163-7170.	3.2	131
24	Enhanced cycle performance of a Liâ€“S battery based on a protected lithium anode. Journal of Materials Chemistry A, 2014, 2, 19355-19359.	5.2	126
25	Sulfonic Groups Originated Dual-Functional Interlayer for High Performance Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2017, 9, 14878-14888.	4.0	126
26	Improved electrochemical property of Ni-rich LiNi0.6Co0.2Mn0.2O2 cathode via in-situ ZrO2 coating for high energy density lithium ion batteries. Chemical Engineering Journal, 2020, 389, 124403.	6.6	125
27	Highly Adhesive Li-BN Nanosheet Composite Anode with Excellent Interfacial Compatibility for Solid-State Li Metal Batteries. ACS Nano, 2019, 13, 14549-14556.	7.3	123
28	Highly stable garnet solid electrolyte based Li-S battery with modified anodic and cathodic interfaces. Energy Storage Materials, 2018, 15, 282-290.	9.5	121
29	High-Strength Internal Cross-Linking Bacterial Cellulose-Network-Based Gel Polymer Electrolyte for Dendrite-Suppressing and High-Rate Lithium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 17809-17819.	4.0	121
30	ZnO nanoarray-modified nickel foam as a lithiophilic skeleton to regulate lithium deposition for lithium-metal batteries. Journal of Materials Chemistry A, 2019, 7, 7752-7759.	5.2	120
31	A tubular polypyrrole based air electrode with improved O2 diffusivity for Liâ€“O2 batteries. Energy and Environmental Science, 2012, 5, 7893.	15.6	119
32	Pre-modified Li3PS4 based interphase for lithium anode towards high-performance Li-S battery. Energy Storage Materials, 2018, 11, 16-23.	9.5	119
33	Flexible self-supporting grapheneâ€“sulfur paper for lithium sulfur batteries. RSC Advances, 2013, 3, 2558.	1.7	115
34	Hollow polyaniline sphere@sulfur composites for prolonged cycling stability of lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 10350-10354.	5.2	114
35	Manipulating Li2O atmosphere for sintering dense Li7La3Zr2O12 solid electrolyte. Energy Storage Materials, 2019, 22, 207-217.	9.5	114
36	A gel-ceramic multi-layer electrolyte for long-life lithium sulfur batteries. Chemical Communications, 2016, 52, 1637-1640.	2.2	113

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37	A Li-Garnet composite ceramic electrolyte and its solid-state Li-S battery. Journal of Power Sources, 2018, 382, 190-197.	4.0	111
38	Highly disordered hard carbon derived from skimmed cotton as a high-performance anode material for potassium-ion batteries. Journal of Power Sources, 2018, 396, 533-541.	4.0	109
39	Reversible ion exchange and structural stability of garnet-type Nb-doped Li7La3Zr2O12 in water for applications in lithium batteries. Journal of Power Sources, 2015, 282, 286-293.	4.0	104
40	Enhanced performance of lithium sulfur batteries with conductive polymer modified separators. Journal of Materials Chemistry A, 2016, 4, 16968-16974.	5.2	103
41	Li/Li₇La₃Zr₂O₁₂/LiFePO₄ All-Solid-State Battery with Ultrathin Nanoscale Solid Electrolyte. Journal of Physical Chemistry C, 2017, 121, 1431-1435.	1.5	98
42	Oneâ€Step Solvothermal Synthesis of Nanostructured Manganese Fluoride as an Anode for Rechargeable Lithiumâ€Ion Batteries and Insights into the Conversion Mechanism. Advanced Energy Materials, 2015, 5, 1401716.	10.2	97
43	Surface Acidity as Descriptor of Catalytic Activity for Oxygen Evolution Reaction in Li-O₂ Battery. Journal of the American Chemical Society, 2015, 137, 13572-13579.	6.6	92
44	Self-catalyzed decomposition of discharge products on the oxygen vacancy sites of MoO3 nanosheets for low-overpotential Li-O2 batteries. Nano Energy, 2017, 36, 186-196.	8.2	92
45	Nanoporous Adsorption Effect on Alteration of the Li⁺ Diffusion Pathway by a Highly Ordered Porous Electrolyte Additive for High-Rate All-Solid-State Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2018, 10, 23874-23882.	4.0	90
46	In Situ Conversion of Cu₃P Nanowires to Mixed Ion/Electronâ€Conducting Skeleton for Homogeneous Lithium Deposition. Advanced Energy Materials, 2020, 10, 1902989.	10.2	88
47	Sustained Releaseâ€Driven Formation of Ultrastable SEI between Li₆PS₅Cl and Lithium Anode for Sulfideâ€Based Solidâ€State Batteries. Advanced Energy Materials, 2021, 11, 2002545.	10.2	87
48	Realization of the Li⁺ domain diffusion effect via constructing molecular brushes on the LLZTO surface and its application in all-solid-state lithium batteries. Journal of Materials Chemistry A, 2019, 7, 27304-27312.	5.2	86
49	Two-step sintering strategy to prepare dense Li-Garnet electrolyte ceramics with high Li+ conductivity. Ceramics International, 2018, 44, 5660-5667.	2.3	82
50	Metal-organic-framework-derived N-C-Co film as a shuttle-suppressing interlayer for lithium sulfur battery. Chemical Engineering Journal, 2018, 334, 2356-2362.	6.6	82
51	Overcoming the abnormal grain growth in Ga-doped Li7La3Zr2O12 to enhance the electrochemical stability against Li metal. Ceramics International, 2019, 45, 14991-14996.	2.3	82
52	A 3D Crossâ€Linking Lithiophilic and Electronically Insulating Interfacial Engineering for Garnetâ€Type Solidâ€State Lithium Batteries. Advanced Functional Materials, 2021, 31, 2007815.	7.8	82
53	Gel polymer electrolyte with ionic liquid for high performance lithium sulfur battery. Solid State Ionics, 2012, 225, 604-607.	1.3	81
54	Synthesis of ordered mesoporous CuCo2O4 with different textures as anode material for lithium ion battery. Microporous and Mesoporous Materials, 2013, 169, 242-247.	2.2	80

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55	Electrochemical performance and stability of cobalt-free Ln1.2Sr0.8NiO4 (Ln=La and Pr) air electrodes for proton-conducting reversible solid oxide cells. Electrochimica Acta, 2018, 267, 269-277.	2.6	80
56	Hierarchically ordered mesoporous Co3O4 materials for high performance Li-ion batteries. Scientific Reports, 2016, 6, 19564.	1.6	79
57	The doping effect on the catalytic activity of graphene for oxygen evolution reaction in a lithiumâ€“air battery: a first-principles study. Physical Chemistry Chemical Physics, 2015, 17, 14605-14612.	1.3	77
58	From Nature to Energy Storage: A Novel Sustainable 3D Cross-Linked Chitosanâ€“PEGGE-Based Gel Polymer Electrolyte with Excellent Lithium-Ion Transport Properties for Lithium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 38526-38537.	4.0	77
59	Graphene nanosheets loaded with Pt nanoparticles with enhanced electrochemical performance for sodiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 2568-2571.	5.2	76
60	Fe₇S₈ Nanoparticles Anchored on Nitrogen-Doped Graphene Nanosheets as Anode Materials for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 29476-29485.	4.0	75
61	Preparation of dense Ta-LLZO/MgO composite Li-ion solid electrolyte: Sintering, microstructure, performance and the role of MgO. Journal of Energy Chemistry, 2019, 39, 8-16.	7.1	74
62	Air Electrode for the Lithiumâ€“Air Batteries: Materials and Structure Designs. ChemPlusChem, 2015, 80, 270-287.	1.3	73
63	Electronic and ionic co-conductive coating on the separator towards high-performance lithiumâ€“sulfur batteries. Journal of Power Sources, 2016, 306, 347-353.	4.0	72
64	A rGOâ€“CNT aerogel covalently bonded with a nitrogen-rich polymer as a polysulfide adsorptive cathode for high sulfur loading lithium sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 14775-14782.	5.2	71
65	A high-energy quinone-based all-solid-state sodium metal battery. Nano Energy, 2019, 62, 718-724.	8.2	71
66	Self-template construction of mesoporous silicon submicrocube anode for advanced lithium ion batteries. Energy Storage Materials, 2018, 15, 139-147.	9.5	70
67	In Situ Lithiophilic Layer from H⁺/Li⁺ Exchange on Garnet Surface for the Stable Lithium-Solid Electrolyte Interface. ACS Applied Materials & Interfaces, 2019, 11, 35030-35038.	4.0	70
68	Local Lattice Distortion Activate Metastable Metal Sulfide as Catalyst with Stable Full Dischargeâ€“Charge Capability for Liâ€“O₂ Batteries. Nano Letters, 2017, 17, 3518-3526.	4.5	68
69	Mesoporous carbon nitride loaded with Pt nanoparticles as a bifunctional air electrode for rechargeable lithium-air battery. Journal of Solid State Electrochemistry, 2012, 16, 1863-1868.	1.2	67
70	In situ formation of LiF decoration on a Li-rich material for long-cycle life and superb low-temperature performance. Journal of Materials Chemistry A, 2019, 7, 11513-11519.	5.2	67
71	Grain boundary modification in garnet electrolyte to suppress lithium dendrite growth. Chemical Engineering Journal, 2021, 411, 128508.	6.6	66
72	In situ fabricated ceramic/polymer hybrid electrolyte with vertically aligned structure for solid-state lithium batteries. Energy Storage Materials, 2021, 36, 171-178.	9.5	62

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73	Enhanced electrochemical performance promoted by monolayer graphene and void space in silicon composite anode materials. Nano Energy, 2016, 27, 647-657.	8.2	61
74	Recent advances in anodic interface engineering for solid-state lithium-metal batteries. Materials Horizons, 2020, 7, 1667-1696.	6.4	60
75	Suppressing the dissolution of polysulfides with cosolvent fluorinated diether towards high-performance lithium sulfur batteries. Physical Chemistry Chemical Physics, 2016, 18, 29293-29299.	1.3	59
76	Research activities in Shanghai Institute of Ceramics, Chinese Academy of Sciences on the solid electrolytes for sodium sulfur batteries. Journal of Power Sources, 2008, 184, 641-645.	4.0	58
77	Method Using Water-Based Solvent to Prepare Li₇La₃Zr₂O₁₂ Solid Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 17147-17155.	4.0	58
78	Improving the electrochemical performance of Li-rich Li1.2Ni0.2Mn0.6O2 by using Ni-Mn oxide surface modification. Journal of Power Sources, 2018, 390, 13-19.	4.0	57
79	Robust and Conductive Red MoSe₂ for Stable and Fast Lithium Storage. ACS Nano, 2018, 12, 4010-4018.	7.3	57
80	On the dispersion of lithium-sulfur battery cathode materials effected by electrostatic and stereo-chemical factors of binders. Journal of Power Sources, 2016, 324, 455-461.	4.0	56
81	Interconnected CoFe₂O₄â€“Polypyrrole Nanotubes as Anode Materials for High Performance Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 36927-36935.	4.0	56
82	Recent Progress in Liquid Electrolyte-Based Liâ€“S Batteries: Shuttle Problem and Solutions. Electrochemical Energy Reviews, 2018, 1, 599-624.	13.1	56
83	Anchoring succinonitrile by solvent-Li+ associations for high-performance solid-state lithium battery. Chemical Engineering Journal, 2021, 406, 126754.	6.6	56
84	Carbon-coated isotropic natural graphite spheres as anode material for lithium-ion batteries. Ceramics International, 2017, 43, 9458-9464.	2.3	53
85	Mesoporous Co3O4 with different porosities as catalysts for the lithiumâ€“oxygen cell. Solid State Ionics, 2012, 225, 598-603.	1.3	52
86	Molybdenum-doped lithium-rich layered-structured cathode material Li1.2Ni0.2Mn0.6O2 with high specific capacity and improved rate performance. Electrochimica Acta, 2015, 168, 234-239.	2.6	52
87	A hybrid electrolyte for long-life semi-solid-state lithium sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 13971-13975.	5.2	52
88	Enhancing metallic lithium battery performance by tuning the electrolyte solution structure. Journal of Materials Chemistry A, 2018, 6, 1612-1620.	5.2	52
89	Lattice Incorporation of Cu²⁺ into the BaCe_{0.7}Zr_{0.1}Y_{0.1}Yb_{0.1}O_{3â^'Î´} Electrolyte on Boosting Its Sintering and Proton-Conducting Abilities for Reversible Solid Oxide Cells. ACS Applied Materials & Interfaces, 2018, 10, 42387-42396.	4.0	52
90	Porous carbon-coated NaTi₂(PO₄)₃ with superior rate and low-temperature properties. Journal of Materials Chemistry A, 2018, 6, 2365-2370.	5.2	51

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91	A novel strategy to prepare Ge@C/rGO hybrids as high-rate anode materials for lithium ion batteries. Journal of Power Sources, 2017, 342, 521-528.	4.0	50
92	Self-supported mesoporous FeCo2O4 nanosheets as high capacity anode material for sodium-ion battery. Chemical Engineering Journal, 2017, 330, 764-773.	6.6	50
93	Cobalt Phosphide Nanoflake-Induced Flower-like Sulfur for High Redox Kinetics and Fast Ion Transfer in Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 49626-49635.	4.0	50
94	Leakage behavior of toxic substances of naphthalene sulfonate-formaldehyde condensation from cement based materials. Journal of Environmental Management, 2020, 255, 109934.	3.8	49
95	Solâ€“gel synthesis of Mg2+ stabilized Na-Î²â€³/Î²-Al2O3 solid electrolyte for sodium anode battery. Journal of Alloys and Compounds, 2014, 613, 80-86.	2.8	48
96	Sintering, micro-structure and Li+ conductivity of Li7â^'La3Zr2â^'Nb O12/MgO (xâ€¯=â€¯0.2â€“0.7) Li-Garnet composite ceramics. Ceramics International, 2019, 45, 56-63.	2.3	48
97	Enhancement of long stability of Liâ€“S battery by thin wall hollow spherical structured polypyrrole based sulfur cathode. RSC Advances, 2014, 4, 21612-21618.	1.7	47
98	Facile synthesis of the sandwich-structured germanium/reduced graphene oxide hybrid: an advanced anode material for high-performance lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 13430-13438.	5.2	47
99	An ion-conductive Li1.5Al0.5Ge1.5(PO4)3-based composite protective layer for lithium metal anode in lithium-sulfur batteries. Journal of Power Sources, 2018, 377, 36-43.	4.0	47
100	Effects of alumina whisker in (PEO)8â€“LiClO4-based composite polymer electrolytes. Solid State Ionics, 2002, 148, 185-191.	1.3	46
101	Influence of La2Zr2O7 Additive on Densification and Li+ Conductivity for Ta-Doped Li7La3Zr2O12 Garnet. Jom, 2016, 68, 2593-2600.	0.9	46
102	Synthesis of Î±-MnO₂nanowires modified by Co₃O₄nanoparticles as a high-performance catalyst for rechargeable Liâ€“O₂batteries. Physical Chemistry Chemical Physics, 2016, 18, 926-931.	1.3	46
103	In-situ constructed lithium-salt lithiophilic layer inducing bi-functional interphase for stable LLZO/Li interface. Energy Storage Materials, 2022, 47, 61-69.	9.5	46
104	Carbon Disulfide Cosolvent Electrolytes for High-Performance Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 34379-34386.	4.0	45
105	Synthesis and characterization of perovskite-type (Li,Sr)(Zr,Nb)O3 quaternary solid electrolyte for all-solid-state batteries. Journal of Power Sources, 2016, 306, 623-629.	4.0	45
106	Scalable synthesis of hierarchical porous Ge/rGO microspheres with an ultra-long cycling life for lithium storage. Journal of Power Sources, 2018, 396, 124-133.	4.0	45
107	Mixed-carbon-coated LiMn0.4Fe0.6PO4 nanopowders with excellent high rate and low temperature performances for lithium-ion batteries. Electrochimica Acta, 2016, 196, 377-385.	2.6	44
108	The long life-span of a Li-metal anode enabled by a protective layer based on the pyrolyzed N-doped binder network. Journal of Materials Chemistry A, 2017, 5, 9339-9349.	5.2	44

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109	Microstructure boosting the cycling stability of LiNi0.6Co0.2Mn0.2O2 cathode through Zr-based dual modification. Energy Storage Materials, 2021, 36, 179-185.	9.5	44
110	Research on spray-dried lithium titanate as electrode materials for lithium ion batteries. Journal of Power Sources, 2005, 146, 670-673.	4.0	43
111	Cobalt-substituted Na0.44Mn1-xCoxO2: phase evolution and a high capacity positive electrode for sodium-ion batteries. Electrochimica Acta, 2016, 213, 496-503.	2.6	43
112	From nanomelting to nanobeads: nanostructured Sb_xBi_{1â^'x} alloys anchored in three-dimensional carbon frameworks as a high-performance anode for potassium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 27041-27047.	5.2	43
113	Hierarchical mesoporous iron-based fluoride with partially hollow structure: facile preparation and high performance as cathode material for rechargeable lithium ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 8556.	1.3	42
114	A conductive selenized polyacrylonitrile cathode material for re-chargeable lithium batteries with long cycle life. Journal of Materials Chemistry A, 2015, 3, 19815-19821.	5.2	42
115	Towards improved structural stability and electrochemical properties of a Li-rich material by a strategy of double gradient surface modification. Nano Energy, 2019, 61, 411-419.	8.2	42
116	Trimethylsilyl Chloride-Modified Li Anode for Enhanced Performance of Liâ€“S Cells. ACS Applied Materials & Interfaces, 2016, 8, 16386-16395.	4.0	41
117	One-step microwave synthesized coreâ€“shell structured selenium@carbon spheres as cathode materials for rechargeable lithium batteries. Chemical Communications, 2016, 52, 5613-5616.	2.2	41
118	Constructing dual interfacial modification by synergetic electronic and ionic conductors: Toward high-performance LAGP-Based Li-S batteries. Energy Storage Materials, 2019, 23, 299-305.	9.5	40
119	Synthesis and properties of poly(1,3-dioxolane) in situ quasi-solid-state electrolytes via a rare-earth triflate catalyst. Chemical Communications, 2021, 57, 7934-7937.	2.2	39
120	Improving the electrochemical properties of high-energy cathode material LiNi0.5Co0.2Mn0.3O2 by Zr doping and sintering in oxygen. Solid State Ionics, 2015, 279, 11-17.	1.3	38
121	Cobalt-Metal-Based Cathode for Lithiumâ€“Oxygen Battery with Improved Electrochemical Performance. ACS Catalysis, 2016, 6, 4149-4153.	5.5	38
122	Wave-like free-standing NiCo2O4 cathode for lithiumâ€“oxygen battery with high discharge capacity. Journal of Power Sources, 2015, 294, 593-601.	4.0	37
123	Solid polymer electrolyte based on thermoplastic polyurethane and its application in all-solid-state lithium ion batteries. Solid State Ionics, 2017, 309, 15-21.	1.3	37
124	Atomic-Thick TiO₂(B) Nanosheets Decorated with Ultrafine Co₃O₄ Nanocrystals As a Highly Efficient Catalyst for Lithiumâ€“Oxygen Battery. ACS Applied Materials & Interfaces, 2018, 10, 41398-41406.	4.0	37
125	Open mesoporous spherical shell structured Co3O4with highly efficient catalytic performance in Liâ€“O2batteries. Journal of Materials Chemistry A, 2015, 3, 7600-7606.	5.2	36
126	The enhanced performance of Liâ€“S battery with P14YRTFSI-modified electrolyte. Solid State Ionics, 2014, 262, 174-178.	1.3	35

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127	Favorable lithium deposition behaviors on flexible carbon microtube skeleton enable a high-performance lithium metal anode. Journal of Materials Chemistry A, 2018, 6, 19159-19166.	5.2	35
128	Disordered carbon tubes based on cotton cloth for modulating interface impedance in Î²â€²â€²-Al₂O₃-based solid-state sodium metal batteries. Journal of Materials Chemistry A, 2018, 6, 12623-12629.	5.2	35
129	In situ synthesis of core-shell structured Ge@NC hybrids as high performance anode material for lithium-ion batteries. Chemical Engineering Journal, 2019, 360, 1301-1309.	6.6	35
130	Ultrathin TiO2 surface layer coated TiN nanoparticles in freestanding film for high sulfur loading Li-S battery. Chemical Engineering Journal, 2020, 399, 125674.	6.6	35
131	High-performance phosphorus-modified SiO/C anode material for lithium ion batteries. Ceramics International, 2018, 44, 18509-18515.	2.3	34
132	A lithium-MXene composite anode with high specific capacity and low interfacial resistance for solid-state batteries. Energy Storage Materials, 2022, 45, 934-940.	9.5	34
133	Performance and stability of BaCe0.8â^'xZr0.2InxO3â^'Î´-based materials and reversible solid oxide cells working at intermediate temperature. International Journal of Hydrogen Energy, 2017, 42, 28549-28558.	3.8	33
134	Synthesis of Ga-doped Li7La3Zr2O12 solid electrolyte with high Li+ ion conductivity. Ceramics International, 2021, 47, 2123-2130.	2.3	33
135	Robust Conversion-Type Li/Garnet interphases from metal salt solutions. Chemical Engineering Journal, 2021, 417, 129158.	6.6	33
136	Enhanced cycle performance of a Na/NiCl 2 battery based on Ni particles encapsulated with Ni 3 S 2 layer. Journal of Power Sources, 2017, 340, 411-418.	4.0	32
137	Tailoring a micro-nanostructured electrolyte-oxygen electrode interface for proton-conducting reversible solid oxide cells. Journal of Power Sources, 2020, 449, 227498.	4.0	32
138	Preparation of Nanocomposite Polymer Electrolyte via In Situ Synthesis of SiO2 Nanoparticles in PEO. Nanomaterials, 2020, 10, 157.	1.9	32
139	Influence of a surface modified Li anode on the electrochemical performance of Liâ€“S batteries. RSC Advances, 2016, 6, 40270-40276.	1.7	31
140	Anchoring Nanostructured Manganese Fluoride on Few-Layer Graphene Nanosheets as Anode for Enhanced Lithium Storage. ACS Applied Materials & Interfaces, 2016, 8, 1819-1826.	4.0	31
141	Effects of porous support microstructure enabled by the carbon microsphere pore former on the performance of proton-conducting reversible solid oxide cells. International Journal of Hydrogen Energy, 2018, 43, 20050-20058.	3.8	30
142	Composite Hybrid Quasi-Solid Electrolyte for High-Energy Lithium Metal Batteries. ACS Applied Energy Materials, 2021, 4, 7973-7982.	2.5	30
143	Construction of hierarchical NiS@C/rGO heterostructures for enhanced sodium storage. Chemical Engineering Journal, 2022, 435, 134633.	6.6	30
144	A new gridding cyanoferrate anode material for lithium and sodium ion batteries: Ti0.75Fe0.25[Fe(CN)6]0.96Â·1.9H2O with excellent electrochemical properties. Journal of Power Sources, 2016, 314, 35-38.	4.0	29

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145	Preparation and electrochemical properties of Li[Ni1/3Co1/3Mn1â^'x/3Zrx/3]O2 cathode materials for Li-ion batteries. Journal of Power Sources, 2007, 174, 544-547.	4.0	28
146	Low-cost shape-control synthesis of porous carbon film on Î²â€³-alumina ceramics for Na-based battery application. Journal of Power Sources, 2012, 219, 1-8.	4.0	28
147	Suppressing Redox Shuttle with MXene-Modified Separators for Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 30766-30775.	4.0	28
148	Nickel nanowire network coating to alleviate interfacial polarization for Na-beta battery applications. Journal of Power Sources, 2013, 240, 786-795.	4.0	27
149	None-Mother-Powder Method to Prepare Dense Li-Garnet Solid Electrolytes with High Critical Current Density. ACS Applied Energy Materials, 0, , .	2.5	27
150	A novel Bi-doped borosilicate glass as sealant for sodium sulfur battery. Part 1: Thermophysical characteristics and structure. Journal of Power Sources, 2010, 195, 384-388.	4.0	26
151	Controlling uniform deposition of discharge products at the nanoscale for rechargeable Naâ€“O₂ batteries. Journal of Materials Chemistry A, 2016, 4, 7238-7244.	5.2	26
152	Assembly of Multifunctional Ni₂P/NiS_{0.66} Heterostructures and Their Superstructure for High Lithium and Sodium Anodic Performance. ACS Applied Materials & Interfaces, 2017, 9, 28549-28557.	4.0	26
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154	Preparation and characterization of carbon-coated Li[Ni1/3Co1/3Mn1/3]O2 cathode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 1807-1811.	1.2	24
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