Pengjian Zuo

List of Publications by Year
in descending order

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214 papers	9,916 citations	34076 52 h-index	53190 85 g-index
216 all docs	216 docs citations	216 times ranked	8956 citing authors

#	Article	IF	Citations
1	Regulating Li deposition by constructing homogeneous LiF protective layer for high-performance Li metal anode. Chemical Engineering Journal, 2022, 427, 131625.	6.6	21
2	Tuning the phase evolution pathway of LiNi0.5Mn1.5O4 synthesis from binary intermediates to ternary intermediates with thermal regulating agent. Journal of Energy Chemistry, 2022, 65, 62-70.	7.1	4
3	Stable lithium anode enabled by biphasic hybrid SEI layer toward high-performance lithium metal batteries. Chemical Engineering Journal, 2022, 433, 133570.	6.6	24
4	Ï€â€Conjugation Induced Anchoring of Ferrocene on Graphdiyne Enable Shuttleâ€Free Redox Mediation in Lithiumâ€Oxygen Batteries. Advanced Science, 2022, 9, e2103964.	5.6	9
5	Layered porous silicon encapsulated in carbon nanotube cage as ultra-stable anode for lithium-ion batteries. Chemical Engineering Journal, 2022, 431, 133982.	6.6	38
6	Tailoring lithium-peroxide reaction kinetics with CuN2C2 single-atom moieties for lithium-oxygen batteries. Nano Energy, 2022, 93, 106810.	8.2	12
7	Molecular bridges stabilize lithium metal anode and solid-state electrolyte interface. Chemical Engineering Journal, 2022, 432, 134271.	6.6	9
8	Ultrathin Si Nanosheets Dispersed in Graphene Matrix Enable Stable Interface and High Rate Capability of Anode for Lithiumâ€ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	67
9	Crystallographic engineering to reduce diffusion barrier for enhanced intercalation pseudocapacitance of TiNb2O7 in fast-charging batteries. Energy Storage Materials, 2022, 47, 178-186.	9.5	30
10	Singleâ€Atom Tailored Hierarchical Transition Metal Oxide Nanocages for Efficient Lithium Storage. Small, 2022, 18, e2200367.	5.2	6
11	Poly (vinyl ethylene carbonate)-based dual-salt gel polymer electrolyte enabling high voltage lithium metal batteries. Chemical Engineering Journal, 2022, 437, 135419.	6.6	21
12	Recent progress of Prussian blue analogues as cathode materials for nonaqueous sodium-ion batteries. Coordination Chemistry Reviews, 2022, 460, 214478.	9.5	87
13	Cobalt-iron oxide nanoparticles anchored on carbon nanotube paper to accelerate polysulfide conversion for lithium-sulfur batteries. Journal of Alloys and Compounds, 2022, 909, 164805.	2.8	7
14	Developing a Double Protection Strategy for High-Performance Spinel LiNi_{0.5}Mn_{1.5}O₄ Cathodes. ACS Applied Energy Materials, 2022, 5, 6401-6409.	2.5	6
15	å±‚çŠ¶æº§åŒ–ç‰©åšæ™®é²å£«è“ç±»ä¼¼ç‰©åœ¨é'ç¦»åç”µæ±çš„ç©¶è¿›å±•. Scientia Sinica Chimica, 2022, .	2.2	0
16	Enabling the conventional TFSI-based electrolytes for high-performance Mg/Li hybrid batteries by Mg electrode interfacial regulation. Chemical Engineering Journal, 2022, 444, 136592.	6.6	4
17	Hierarchical NiMn/NiMn-LDH/ppy-C induced by a novel phase-transformation activation process for long-life supercapacitor. Journal of Colloid and Interface Science, 2022, 622, 1020-1028.	5.0	9
18	Pt/C-TiO2 as Oxygen Reduction Electrocatalysts against Sulfur Poisoning. Catalysts, 2022, 12, 571.	1.6	3

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19	Achieving high-energy-density magnesium/sulfur battery via a passivation-free Mg-Li alloy anode. Energy Storage Materials, 2022, 50, 380-386.	9.5	14
20	DNA Helix Structure Inspired Flexible Lithium-Ion Batteries with High Spiral Deformability and Long-Lived Cyclic Stability. Nano Letters, 2022, 22, 5553-5560.	4.5	8
21	Surfaceâ€toâ€Bulk Synergistic Modification of Single Crystal Cathode Enables Stable Cycling of Sulfideâ€Based Allâ€Solidâ€State Batteries at 4.4 V. Advanced Energy Materials, 2022, 12, .	10.2	30
22	Immobilization and Kinetic Acceleration of Lithium Polysulfides by Iodine-Doped MXene Nanosheets in Lithiumâ€"Sulfur Batteries. Journal of Physical Chemistry C, 2022, 126, 10986-10994.	1.5	5
23	Surface-Phase Engineering via Lanthanum Doping Enables Enhanced Electrochemical Performance of Li-Rich Layered Cathode. ACS Applied Energy Materials, 2022, 5, 9648-9656.	2.5	8
24	Oxygen vacancies Nb2O5-: Ultrastable lithium storage anode materials for advanced rechargeable batteries. Applied Surface Science, 2022, 600, 154068.	3.1	10
25	Unraveling the advances of trace doping engineering for potassium ion battery anodes via tomography. Journal of Energy Chemistry, 2021, 58, 355-363.	7.1	12
26	Interface Issues and Challenges in Allâ€Solidâ€State Batteries: Lithium, Sodium, and Beyond. Advanced Materials, 2021, 33, e2000721.	11.1	248
27	Improving electrochemical performance of rechargeable magnesium batteries with conditioning-free Mg-Cl complex electrolyte. Chemical Engineering Journal, 2021, 403, 126398.	6.6	23
28	Intercalation pseudocapacitive electrochemistry of Nb-based oxides for fast charging of lithium-ion batteries. Nano Energy, 2021, 81, 105635.	8.2	52
29	An interface-reinforced rhombohedral Prussian blue analogue in semi-solid state electrolyte for sodium-ion battery. Energy Storage Materials, 2021, 36, 99-107.	9.5	36
30	Multi-dimensionally hierarchical self-supported Cu@Cu2+1O@Co3O4 heterostructure enabling superior lithium-ion storage and electrocatalytic oxygen evolution. Chemical Engineering Journal, 2021, 405, 126699.	6.6	20
31	Reversible Silicon Anodes with Long Cycles by Multifunctional Volumetric Buffer Layers. ACS Applied Materials & Interfaces, 2021, 13, 4093-4101.	4.0	34
32	Hierarchical pores from microscale to macroscale boost ultrahigh lithium intercalation pseudocapacitance of biomass carbon. Journal of Energy Storage, 2021, 33, 102068.	3.9	15
33	Voltage hysteresis of magnesium anode: Taking magnesium-sulfur battery as an example. Electrochimica Acta, 2021, 369, 137685.	2.6	11
34	Integrating Co3O4 nanoparticles with MnO2 nanosheets as bifunctional electrocatalysts for water splitting. International Journal of Hydrogen Energy, 2021, 46, 10356-10365.	3.8	26
35	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. Advanced Functional Materials, 2021, 31, 2010526.	7.8	46
36	Engineering Molecular Polymerization for Templateâ€Free SiO_x/C Hollow Spheres as Ultrastable Anodes in Lithiumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2101145.	7.8	74

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37	A Review of Magnesium Aluminum Chloride Complex Electrolytes for Mg Batteries. Advanced Functional Materials, 2021, 31, 2100650.	7.8	39
38	A Scalable Cathode Chemical Prelithiation Strategy for Advanced Silicon-Based Lithium Ion Full Batteries. ACS Applied Materials & Interfaces, 2021, 13, 11985-11994.	4.0	38
39	Phosphorus-doped carbon as cathode material for high energy nonaqueous Li-O2 batteries. Applied Surface Science, 2021, 543, 148864.	3.1	18
40	Electrochemical behaviors in the anode of LiCoO2/mesocarbon microbead battery and their impacts on the capacity degradation. Ionics, 2021, 27, 2353-2365.	1.2	2
41	Interface Reinforcement of a Prussian Blue Cathode Using a Non-Flammable Co-Solvent Cresyl Diphenyl Phosphate for a High-Safety Na-Ion Battery. ACS Sustainable Chemistry and Engineering, 2021, 9, 5809-5817.	3.2	9
42	Recent Progress of Electrochemical Production of Hydrogen Peroxide by Twoâ€Electron Oxygen Reduction Reaction. Advanced Science, 2021, 8, e2100076.	5.6	148
43	Formation of an Artificial Mg‹sup›2+‹/sup›-Permeable Interphase on Mg Anodes Compatible with Ether and Carbonate Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 24565-24574.	4.0	36
44	An Interphase-enhanced Liquid Na-K Anode for Dendrite-free Alkali Metal Batteries Enabled by SiCl4 Electrolyte Additive. Energy Storage Materials, 2021, 37, 199-206.	9.5	25
45	Immobilization and kinetic promotion of polysulfides by molybdenum carbide in lithium-sulfur batteries. Chemical Engineering Journal, 2021, 411, 128563.	6.6	35
46	LiNi0.5Co0.2Mn0.3O2/graphite batteries storing at high temperature: Capacity fading and raveling of aging mechanisms. Journal of Power Sources, 2021, 496, 229858.	4.0	16
47	Realizing Solidâ€Phase Reaction in Liâ€“S Batteries via Localized Highâ€Concentration Carbonate Electrolyte. Advanced Energy Materials, 2021, 11, 2101004.	10.2	46
48	Stabilizing Lithium Metal Anode Enabled by a Natural Polymer Layer for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 28252-28260.	4.0	19
49	In-situ thermal polymerization boosts succinonitrile-based composite solid-state electrolyte for high performance Li-metal battery. Journal of Power Sources, 2021, 496, 229861.	4.0	49
50	Flame-Retardant and Polysulfide-Suppressed Ether-Based Electrolytes for High-Temperature Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2021, 13, 38296-38304.	4.0	21
51	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for lithium sulfur batteries in carbonate electrolyte. Chemical Engineering Journal, 2021, 418, 129410.	6.6	31
52	An armor-like artificial solid electrolyte interphase layer for high performance lithium-sulfur batteries. Applied Materials Today, 2021, 24, 101108.	2.3	4
53	Tailoring Porous Transition Metal Oxide for High-Performance Lithium Storage. Journal of Physical Chemistry C, 2021, 125, 22435-22445.	1.5	7
54	Cobalt-iron oxide nanotubes decorated with polyaniline as advanced cathode hosts for Li-S batteries. Electrochimica Acta, 2021, 390, 138873.	2.6	16

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55	Modulating CoFe2O4 nanocube with oxygen vacancy and carbon wrapper towards enhanced electrocatalytic nitrogen reduction to ammonia. Applied Catalysis B: Environmental, 2021, 297, 120452.	10.8	42
56	An artificial interphase enables the use of Mg(TFSI)2-based electrolytes in magnesium metal batteries. Chemical Engineering Journal, 2021, 426, 130751.	6.6	34
57	Chelated electrolytes for divalent metal ions. Science, 2021, 374, 156-156.	6.0	7
58	Tracking Battery Dynamics by Operando Synchrotron X-ray Imaging: Operation from Liquid Electrolytes to Solid-State Electrolytes. Accounts of Materials Research, 2021, 2, 1177-1189.	5.9	15
59	A Novel Spherical Boron Phosphide as a High-Efficiency Overall Water Splitting Catalyst: A Density Functional Theory Study. Catalysis Letters, 2020, 150, 544-554.	1.4	7
60	Solvate ionic liquid boosting favorable interfaces kinetics to achieve the excellent performance of Li4Ti5O12 anodes in Li10GeP2S12 based solid-state batteries. Chemical Engineering Journal, 2020, 382, 123046.	6.6	12
61	A dual-salt coupled fluoroethylene carbonate succinonitrile-based electrolyte enables Li-metal batteries. Journal of Materials Chemistry A, 2020, 8, 2066-2073.	5.2	75
62	Improving electrochemical performance of Nano-Si/N-doped carbon through tunning the microstructure from two dimensions to three dimensions. Electrochimica Acta, 2020, 332, 135507.	2.6	18
63	Unraveling the Relationship between Ti⁴⁺ Doping and Li⁺ Mobility Enhancement in Ti⁴⁺ Doped Li₃V₂(PO₄)₃. ACS Applied Energy Materials, 2020, 3, 715-722.	2.5	11
64	Capacity degradation mechanism and improvement actions for 4 V-class all-solid-state lithium-metal polymer batteries. Chemical Engineering Journal, 2020, 392, 123665.	6.6	34
65	Sulfur Dioxide-Tolerant Bimetallic PtRu Catalyst toward Oxygen Electroreduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 1295-1301.	3.2	33
66	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. Nature Communications, 2020, 11, 5700.	5.8	122
67	Structural Distortion Induced by Manganese Activation in a Lithium-Rich Layered Cathode. Journal of the American Chemical Society, 2020, 142, 14966-14973.	6.6	79
68	Defect-enriched carbon nanofibers encapsulating NiCo oxide for efficient oxygen electrocatalysis and rechargeable Zn-air batteries. Journal of Power Sources, 2020, 473, 228604.	4.0	25
69	Facile carbon fiber-sewed high areal density electrode for lithium sulfur batteries. Chemical Communications, 2020, 56, 10758-10761.	2.2	9
70	Multi-scale Imaging of Solid-State Battery Interfaces: From Atomic Scale to Macroscopic Scale. CheM, 2020, 6, 2199-2218.	5.8	64
71	Inducing uniform lithium nucleation by integrated lithium-rich li-in anode with lithiophilic 3D framework. Energy Storage Materials, 2020, 33, 423-431.	9.5	56
72	Enabling Highly Stable Liâ€“O₂ Batteries with Full Dischargeâ€“Charge Capability: The Porous Binder- and Carbon-Free IrNi Nanosheet Cathode. ACS Sustainable Chemistry and Engineering, 2020, 8, 16115-16123.	3.2	4

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73	Synergistic engineering of defects and architecture in Co3O4@C nanosheets toward Li/Na ion batteries with enhanced pseudocapacitances. Nano Energy, 2020, 78, 105366.	8.2	86
74	Thin-carbon-layer-enveloped cobaltâ€“iron oxide nanocages as a high-efficiency sulfur container for Liâ€“S batteries. Journal of Materials Chemistry A, 2020, 8, 20604-20611.	5.2	42
75	DFT and experimental study of nano red phosphorus anchoring on sulfurized polyacrylonitrile for lithium-ion batteries. Chemical Communications, 2020, 56, 12857-12860.	2.2	4
76	Black phosphorus-modified sulfurized polyacrylonitrile with high C-rate and cycling performance in ether-based electrolyte for lithium sulfur batteries. Chemical Communications, 2020, 56, 12797-12800.	2.2	15
77	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
78	Stable anchoring and uniform distribution of SiO2 nanotubes on reduced graphene oxide through electrostatic self-assembly for ultra-high lithium storage performance. Carbon, 2020, 167, 835-842.	5.4	27
79	State-of-health estimation for satellite batteries based on the actual operating parameters â€“ Health indicator extraction from the discharge curves and state estimation. Journal of Energy Storage, 2020, 31, 101490.	3.9	27
80	Surface nitrided and carbon coated TiNb2O7 anode material with excellent performance for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 835, 155241.	2.8	20
81	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. Nature Communications, 2020, 11, 3050.	5.8	225
82	Novel confinement of Mn3O4 nanoparticles on two-dimensional carbide enabling high-performance electrochemical synthesis of ammonia under ambient conditions. Chemical Engineering Journal, 2020, 396, 125163.	6.6	24
83	Low-Temperature Solution Synthesis of Black Phosphorus from Red Phosphorus: Crystallization Mechanism and Lithium Ion Battery Applications. Journal of Physical Chemistry Letters, 2020, 11, 2708-2716.	2.1	52
84	Perovskite LaCo_xMn_{1â€“x}O_{3âˆ’Ïƒ} with Tunable Defect and Surface Structures as Cathode Catalysts for Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2020, 12, 10452-10460.	4.0	23
85	Superior Electrochemical Performance of WNb₂O₈ Nanorods Triggered by Ultraâ€Efficient Li⁺ Diffusion. ChemistrySelect, 2020, 5, 1209-1213.	0.7	11
86	In-situ formed free-standing Ir nanocatalysts as carbon- and binder-free cathode for rechargeable nonaqueous Liâ€“O2 batteries. Journal of Alloys and Compounds, 2020, 832, 155009.	2.8	6
87	A porous N-doped carbon aggregate as sulfur host for lithium-sulfur batteries. Ionics, 2019, 25, 2131-2138.	1.2	8
88	Scalable submicron/micron silicon particles stabilized in a robust graphite-carbon architecture for enhanced lithium storage. Journal of Colloid and Interface Science, 2019, 555, 783-790.	5.0	22
89	Unraveling the Origins of the â€œUnreactive Coreâ€•in Conversion Electrodes to Trigger High Sodium-Ion Electrochemistry. ACS Energy Letters, 2019, 4, 2007-2012.	8.8	33
90	Single small molecule-assembled nanoparticles mediate efficient oral drug delivery. Nano Research, 2019, 12, 2468-2476.	5.8	36

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91	Anisotropically Electrochemicalâ€“Mechanical Evolution in Solidâ€State Batteries and Interfacial Tailored Strategy. Angewandte Chemie - International Edition, 2019, 58, 18647-18653.	7.2	43
92	Pseudocapacitive Li+ storage boosts ultrahigh rate performance of structure-tailored CoFe2O4@Fe2O3 hollow spheres triggered by engineered surface and near-surface reactions. Nano Energy, 2019, 66, 104179.	8.2	45
93	Layer-by-Layer Engineered Silicon-Based Sandwich Nanomat as Flexible Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 39970-39978.	4.0	26
94	Anisotropically Electrochemicalâ€“Mechanical Evolution in Solidâ€State Batteries and Interfacial Tailored Strategy. Angewandte Chemie, 2019, 131, 18820-18826.	1.6	12
95	A general way to fabricate transition metal dichalcogenide/oxide-sandwiched MXene nanosheets as flexible film anodes for high-performance lithium storage. Sustainable Energy and Fuels, 2019, 3, 2577-2582.	2.5	20
96	Direct dimethyl ether fuel cells with low platinum-group-metal loading at anode: Investigations of operating temperatures and anode Pt/Ru ratios. Journal of Power Sources, 2019, 433, 126690.	4.0	18
97	Scalable mesoporous silicon microparticles composed of interconnected nanoplates for superior lithium storage. Chemical Engineering Journal, 2019, 375, 121923.	6.6	32
98	Achieving long-life Prussian blue analogue cathode for Na-ion batteries via triple-cation lattice substitution and coordinated water capture. Nano Energy, 2019, 61, 201-210.	8.2	121
99	Investigating the Structure of an Active Materialâ€“Carbon Interface in the Monoclinic Li₃V₂(PO₄)₃/C Composite Cathode. ACS Applied Energy Materials, 2019, 2, 3692-3702.	2.5	9
100	Electrochemically-driven interphase conditioning of magnesium electrode for magnesium sulfur batteries. Journal of Energy Chemistry, 2019, 37, 215-219.	7.1	22
101	Amorphous carbon-encapsulated Si nanoparticles loading on MCMB with sandwich structure for lithium ion batteries. Electrochimica Acta, 2019, 306, 590-598.	2.6	41
102	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for room-temperature sodium/potassium sulfur batteries. Chemical Communications, 2019, 55, 5267-5270.	2.2	83
103	Synthesis of Well-Defined Pt-Based Catalysts for Methanol Oxidation Reaction Based on Electronâ€“Hole Separation Effects. ACS Sustainable Chemistry and Engineering, 2019, 7, 8597-8603.	3.2	7
104	Improved Electrochemical Performance of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Material by Coating of Graphene Nanodots. Journal of the Electrochemical Society, 2019, 166, A1038-A1044.	1.3	19
105	A quasi-solid-state Liâ€“S battery with high energy density, superior stability and safety. Journal of Materials Chemistry A, 2019, 7, 6533-6542.	5.2	42
106	Tiâ€Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. Small, 2019, 15, e1904740.	5.2	121
107	Understanding the Structural Evolution and Lattice Water Movement for Rhombohedral Nickel Hexacyanoferrate upon Sodium Migration. ACS Applied Materials & Interfaces, 2019, 11, 46705-46713.	4.0	31
108	Enhanced Electrochemical Performance of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Material via Li₂TiO₃ Nanoparticles Coating. Journal of the Electrochemical Society, 2019, 166, A143-A150.	1.3	27

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109	A three-dimensional silicon/nitrogen-doped graphitized carbon composite as high-performance anode material for lithium ion batteries. Journal of Alloys and Compounds, 2019, 777, 190-197.	2.8	51
110	Palladium nanocrystals-imbedded mesoporous hollow carbon spheres with enhanced electrochemical kinetics for high performance lithium sulfur batteries. Carbon, 2019, 143, 878-889.	5.4	70
111	A multifunctional silicotungstic acid-modified Li-rich manganese-based cathode material with excellent electrochemical properties. Journal of Solid State Electrochemistry, 2019, 23, 101-108.	1.2	1
112	ZIFâ€8 with Ferrocene Encapsulated: A Promising Precursor to Singleâ€Atom Fe Embedded Nitrogenâ€Doped Carbon as Highly Efficient Catalyst for Oxygen Electroreduction. Small, 2018, 14, e1704282.	5.2	202
113	Enhanced electrochemical performance of Li4Ti5O12 through in-situ coating 70Li2S-30P2S5 solid electrolyte for all-solid-state lithium batteries. Journal of Alloys and Compounds, 2018, 752, 8-13.	2.8	21
114	Unravelling the Enhanced Highâ€Temperature Performance of Lithiumâ€Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. ChemElectroChem, 2018, 5, 1569-1575.	1.7	29
115	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. Journal of Power Sources, 2018, 381, 156-163.	4.0	80
116	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. Chemical Engineering Journal, 2018, 341, 37-46.	6.6	95
117	3D hierarchical Co/CoO/C nanocomposites with mesoporous microsheets grown on nickel foam as cathodes for Li-O2 batteries. Journal of Alloys and Compounds, 2018, 749, 378-384.	2.8	18
118	The degradation of LiCoO2/graphite batteries at different rates. Electrochimica Acta, 2018, 279, 204-212.	2.6	27
119	Probing Battery Electrochemistry with In Operando Synchrotron Xâ€Ray Imaging Techniques. Small Methods, 2018, 2, 1700293.	4.6	52
120	Polymeric multilayer-modified manganese dioxide with hollow porous structure as sulfur host for lithium sulfur batteries. Electrochimica Acta, 2018, 259, 440-448.	2.6	27
121	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. Energy Storage Materials, 2018, 11, 197-204.	9.5	117
122	Pseudocapacitive Li+ intercalation in porous Ti2Nb10O29 nanospheres enables ultra-fast lithium storage. Energy Storage Materials, 2018, 11, 57-66.	9.5	163
123	State of health diagnosis model for lithium ion batteries based onÂreal-time impedance and open circuit voltage parameters identification method. Energy, 2018, 144, 647-656.	4.5	69
124	Understanding the initial irreversibility of metal sulfides for sodium-ion batteries via operando techniques. Nano Energy, 2018, 43, 184-191.	8.2	61
125	Enhanced photocatalytic performance of spherical BiOI/MnO₂ composite and mechanism investigation. RSC Advances, 2018, 8, 36161-36166.	1.7	27
126	Rapid Prediction of the Open-Circuit-Voltage of Lithium Ion Batteries Based on an Effective Voltage Relaxation Model. Energies, 2018, 11, 3444.	1.6	18

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127	Modifying High-Voltage Olivine-Type LiMnPO₄ Cathode via Mg Substitution in High-Orientation Crystal. ACS Applied Energy Materials, 2018, 1, 5928-5935.	2.5	20
128	Insights into the role of oxygen functional groups and defects in the rechargeable nonaqueous Liâ€"O2 batteries. Electrochimica Acta, 2018, 292, 838-845.	2.6	22
129	Toward Promising Turnkey Solution for Next-Generation Lithium Ion Batteries: Scale Preparation, Fading Analysis, and Enhanced Performance of Microsized Si/C Composites. ACS Applied Energy Materials, 2018, 1, 6977-6985.	2.5	10
130	Bifunctional electrolyte additive KI to improve the cycling performance of Liâ€"O₂ batteries. New Journal of Chemistry, 2018, 42, 17311-17316.	1.4	2
131	Cobalt nanoparticle-encapsulated carbon nanowire arrays: Enabling the fast redox reaction kinetics of lithium-sulfur batteries. Carbon, 2018, 140, 385-393.	5.4	31
132	Accelerated Aging Analysis on Cycle Life of LiFePO₄/Graphite Batteries Based on Different Rates. ChemElectroChem, 2018, 5, 2301-2309.	1.7	10
133	Unravelling the Interface Layer Formation and Gas Evolution/Suppression on a TiNb₂O₇ Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 27056-27062.	4.0	47
134	Accelerated aging and degradation mechanism of LiFePO₄/graphite batteries cycled at high discharge rates. RSC Advances, 2018, 8, 25695-25703.	1.7	40
135	Excellent room-temperature performance of lithium metal polymer battery with enhanced interfacial compatibility. Electrochimica Acta, 2018, 283, 1261-1268.	2.6	7
136	Iron sulfide/carbon hybrid cluster as an anode for potassium-ion storage. Journal of Alloys and Compounds, 2018, 766, 1086-1091.	2.8	47
137	Free-Standing Sandwich-Type Graphene/Nanocellulose/Silicon Laminar Anode for Flexible Rechargeable Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 29638-29646.	4.0	63
138	Superior performance of ordered macroporous TiNb 2 O 7 anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. Nano Energy, 2017, 34, 15-25.	8.2	351
139	Improved electrochemical performance of micro-sized SiO-based composite anode by prelithiation of stabilized lithium metal powder. Journal of Power Sources, 2017, 347, 170-177.	4.0	129
140	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. Chemistry of Materials, 2017, 29, 2141-2149.	3.2	44
141	Unravelling the origin of irreversible capacity loss in NaNiO2 for high voltage sodium ion batteries. Nano Energy, 2017, 34, 215-223.	8.2	94
142	Improved Rate Performance of Lithium Sulfur Batteries by In-Situ Anchoring of Lithium Iodide in Carbon/Sulfur Cathode. Electrochimica Acta, 2017, 238, 257-262.	2.6	30
143	Facilitating the redox reaction of polysulfides by an electrocatalytic layer-modified separator for lithiumâ€"sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 10936-10945.	5.2	87
144	Improved high-voltage performance of LiNi 1/3 Co 1/3 Mn 1/3 O 2 cathode with Tris(2,2,2-trifluoroethyl) phosphite as electrolyte additive. Electrochimica Acta, 2017, 243, 72-81.	2.6	29

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145	Pseudocapacitive Li+ intercalation in ZnO/ZnO@C composites enables high-rate lithium-ion storage and stable cyclability. Ceramics International, 2017, 43, 11998-12004.	2.3	28
146	Electronically Conductive Sb-doped SnO 2 Nanoparticles Coated LiNi 0.8 Co 0.15 Al 0.05 O 2 Cathode Material with Enhanced Electrochemical Properties for Li-ion Batteries. Electrochimica Acta, 2017, 236, 273-279.	2.6	61
147	Hierarchical ordered macroporous/ultrathin mesoporous carbon architecture: A promising cathode scaffold with excellent rate performance for rechargeable Li-O2 batteries. Carbon, 2017, 118, 139-147.	5.4	50
148	Lithium Cobalt Oxides Functionalized by Conductive Al-doped ZnO Coating as Cathode for High-performance Lithium Ion Batteries. Electrochimica Acta, 2017, 224, 96-104.	2.6	31
149	Prediction Model and Principle of End-of-Life Threshold for Lithium Ion Batteries Based on Open Circuit Voltage Drifts. Electrochimica Acta, 2017, 255, 83-91.	2.6	11
150	Self-doping Ti1-Nb2+O7 anode material for lithium-ion battery and its electrochemical performance. Journal of Alloys and Compounds, 2017, 728, 534-540.	2.8	40
151	Mixed lithium ion and electron conducting LiAlPO 3.93 F 1.07 -coated LiCoO 2 cathode with improved electrochemical performance. Electrochemistry Communications, 2017, 83, 106-109.	2.3	28
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