

Cheng-Lin Yan

List of Publications by Year in descending order

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173
papers

13,963
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16451

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175
all docs

175
docs citations

175
times ranked

14011
citing authors

#	ARTICLE	IF	CITATIONS
1	Over 56.55% Faradaic efficiency of ambient ammonia synthesis enabled by positively shifting the reaction potential. <i>Nature Communications</i> , 2019, 10, 341.	12.8	412
2	A Sustainable Route from Biomass Byproduct Okara to High Content Nitrogen-Doped Carbon Sheets for Efficient Sodium Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 539-545.	21.0	384
3	Ultra-High Pyridinic N-Doped Porous Carbon Monolith Enabling High-Capacity K-ion Battery Anodes for Both Half-Cell and Full-Cell Applications. <i>Advanced Materials</i> , 2017, 29, 1702268.	21.0	348
4	Inhibiting Polysulfide Shuttling with a Graphene Composite Separator for Highly Robust Lithium-Sulfur Batteries. <i>Joule</i> , 2018, 2, 2091-2104.	24.0	345
5	On chip, all solid-state and flexible micro-supercapacitors with high performance based on MnOx/Au multilayers. <i>Energy and Environmental Science</i> , 2013, 6, 3218.	30.8	314
6	Lithium anode stable in air for low-cost fabrication of a dendrite-free lithium battery. <i>Nature Communications</i> , 2019, 10, 900.	12.8	297
7	A New Type of Multifunctional Polar Binder: Toward Practical Application of High Energy Lithium Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1605160.	21.0	284
8	Greatly Suppressed Shuttle Effect for Improved Lithium Sulfur Battery Performance through Short Chain Intermediates. <i>Nano Letters</i> , 2017, 17, 538-543.	9.1	271
9	A New Hydrophilic Binder Enabling Strongly Anchoring Polysulfides for High-Performance Sulfur Electrodes in Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1702889.	19.5	270
10	Multifunctional Ni/NiO hybrid nanomembranes as anode materials for high-rate Li-ion batteries. <i>Nano Energy</i> , 2014, 9, 168-175.	16.0	268
11	Designing Safe Electrolyte Systems for a High-Stability Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1702348.	19.5	266
12	Three-Dimensionally Curved-NiO Nanomembranes as Ultrahigh Rate Capability Anodes for Li-ion Batteries with Long Cycle Lifetimes. <i>Advanced Energy Materials</i> , 2014, 4, 1300912.	19.5	263
13	Half-Cell and Full-Cell Applications of Highly Stable and Binder-Free Sodium Ion Batteries Based on Cu ₃ P Nanowire Anodes. <i>Advanced Functional Materials</i> , 2016, 26, 5019-5027.	14.9	243
14	Bimetal Schottky Heterojunction Boosting Energy-Saving Hydrogen Production from Alkaline Water via Urea Electrocatalysis. <i>Advanced Functional Materials</i> , 2020, 30, 2000556.	14.9	216
15	Proton-filtering covalent organic frameworks with superior nitrogen penetration flux promote ambient ammonia synthesis. <i>Nature Catalysis</i> , 2021, 4, 322-331.	34.4	216
16	Wearable Magnetic Field Sensors for Flexible Electronics. <i>Advanced Materials</i> , 2015, 27, 1274-1280.	21.0	201
17	Atomic Interlamellar Ion Path in High Sulfur Content Lithium-Montmorillonite Host Enables High-Rate and Stable Lithium-Sulfur Battery. <i>Advanced Materials</i> , 2018, 30, e1804084.	21.0	201
18	Facilitating nitrogen accessibility to boron-rich covalent organic frameworks via electrochemical excitation for efficient nitrogen fixation. <i>Nature Communications</i> , 2019, 10, 3898.	12.8	191

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19	Near-IR Photoresponse in New Up-Converting CdSe/NaYF ₄ :Yb,Er Nanoheterostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 8868-8869.	13.7	183
20	Stitching of Zn ₃ (OH) ₂ V ₂ O ₇ ·2H ₂ O 2D Nanosheets by 1D Carbon Nanotubes Boosts Ultrahigh Rate for Wearable Quasi-Solid-State Zinc-Ion Batteries. <i>ACS Nano</i> , 2020, 14, 842-853.	14.6	183
21	Naturally Rolled C/Si/C Trilayer Nanomembranes as Stable Anodes for Lithium-Ion Batteries with Remarkable Cycling Performance. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2326-2330.	13.8	181
22	Porous Si Nanowires from Cheap Metallurgical Silicon Stabilized by a Surface Oxide Layer for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 6701-6709.	14.9	173
23	Engineered nanomembranes for smart energy storage devices. <i>Chemical Society Reviews</i> , 2016, 45, 1308-1330.	38.1	167
24	Engineering Fe-N Coordination Structures for Fast Redox Conversion in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021, 33, e2100171.	21.0	167
25	Strongly Coupled Bi ₂ S ₃ @CNT Hybrids for Robust Lithium Storage. <i>Advanced Energy Materials</i> , 2014, 4, 1400798.	19.5	159
26	Understanding of the Ultrastable K ⁺ Ion Storage of Carbonaceous Anode. <i>Advanced Functional Materials</i> , 2018, 28, 1801989.	14.9	159
27	TiO ₂ Feather Duster as Effective Polysulfides Restrictor for Enhanced Electrochemical Kinetics in Lithium-Sulfur Batteries. <i>Small</i> , 2017, 13, 1701013.	10.0	147
28	Lithiophilic montmorillonite serves as lithium ion reservoir to facilitate uniform lithium deposition. <i>Nature Communications</i> , 2019, 10, 4973.	12.8	144
29	Hierarchically Designed SiOx/SiOy Bilayer Nanomembranes as Stable Anodes for Lithium Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 4527-4532.	21.0	141
30	Electronic Modulation of Electrocatalytically Active Center of Cu ₇ S ₄ Nanodisks by Cobalt-Doping for Highly Efficient Oxygen Evolution Reaction. <i>ACS Nano</i> , 2017, 11, 12230-12239.	14.6	139
31	Sandwich Nanoarchitecture of Si/Reduced Graphene Oxide Bilayer Nanomembranes for Li-Ion Batteries with Long Cycle Life. <i>ACS Nano</i> , 2015, 9, 1198-1205.	14.6	137
32	Interconnected three-dimensional V ₂ O ₅ /polypyrrole network nanostructures for high performance solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 488-493.	10.3	135
33	Facilitated Oxygen Chemisorption in Heteroatom-Doped Carbon for Improved Oxygen Reaction Activity in All-Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2018, 30, 1704898.	21.0	135
34	Progress and perspective of organosulfur polymers as cathode materials for advanced lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018, 15, 53-64.	18.0	131
35	Selenium-Doped Cathodes for Lithium-Organosulfur Batteries with Greatly Improved Volumetric Capacity and Coulombic Efficiency. <i>Advanced Materials</i> , 2017, 29, 1701294.	21.0	126
36	Highly Conductive and Strain-Released Hybrid Multilayer Ge/Ti Nanomembranes with Enhanced Lithium-Ion Storage Capability. <i>Advanced Materials</i> , 2013, 25, 539-544.	21.0	125

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37	CuCo ₂ S ₄ Nanosheets@N-Doped Carbon Nanofibers by Sulfurization at Room Temperature as Bifunctional Electrocatalysts in Flexible Quasi-Solid-State Zn-Air Batteries. <i>Advanced Science</i> , 2019, 6, 1900628.	11.2	123
38	<i>In situ</i> optical spectroscopy characterization for optimal design of lithium-sulfur batteries. <i>Chemical Society Reviews</i> , 2019, 48, 5432-5453.	38.1	120
39	Modulating the d-band center of boron doped single-atom sites to boost the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20952-20957.	10.3	117
40	Redox Chemistry of Molybdenum Trioxide for Ultrafast Hydrogen-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11569-11573.	13.8	116
41	Three-Dimensional (3D) Bicontinuous Au/Amorphous-Ge Thin Films as Fast and High-Capacity Anodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 281-285.	19.5	115
42	An Efficient Bifunctional Electrocatalyst for a Zinc-Air Battery Derived from Fe/N/C and Bimetallic Metal-Organic Framework Composites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5213-5221.	8.0	113
43	Molecularly Imprinted Polymer Enables High-Efficiency Recognition and Trapping Lithium Polysulfides for Stable Lithium Sulfur Battery. <i>Nano Letters</i> , 2017, 17, 5064-5070.	9.1	112
44	High Lithium Ion Conductivity LiF/GO Solid Electrolyte Interphase Inhibiting the Shuttle of Lithium Polysulfides in Long-Life Li-S Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1706513.	14.9	109
45	Ultrastable Sodium-Sulfur Batteries without Polysulfides Formation Using Slit Ultramicropore Carbon Carrier. <i>Advanced Science</i> , 2020, 7, 1903246.	11.2	109
46	High-Safety All-Solid-State Lithium-Metal Battery with High-Ionic-Conductivity Thermoresponsive Solid Polymer Electrolyte. <i>Nano Letters</i> , 2019, 19, 3066-3073.	9.1	108
47	Mg Doped Li-LiB Alloy with In Situ Formed Lithiophilic LiB Skeleton for Lithium Metal Batteries. <i>Advanced Science</i> , 2020, 7, 1902643.	11.2	106
48	Salting-out effect promoting highly efficient ambient ammonia synthesis. <i>Nature Communications</i> , 2021, 12, 3198.	12.8	105
49	Multiple NaNbO ₃ /Nb ₂ O ₅ Heterostructure Nanotubes: A New Class of Ferroelectric/Semiconductor Nanomaterials. <i>Advanced Materials</i> , 2010, 22, 1741-1745.	21.0	104
50	Sandwich-Stacked SnO ₂ /Cu Hybrid Nanosheets as Multichannel Anodes for Lithium Ion Batteries. <i>ACS Nano</i> , 2013, 7, 6948-6954.	14.6	99
51	Lanthanide Ion Doped Upconverting Nanoparticles: Synthesis, Structure and Properties. <i>Small</i> , 2016, 12, 3888-3907.	10.0	91
52	A new high ionic conductive gel polymer electrolyte enables highly stable quasi-solid-state lithium sulfur battery. <i>Energy Storage Materials</i> , 2019, 22, 256-264.	18.0	89
53	Mega High Utilization of Sodium Metal Anodes Enabled by Single Zinc Atom Sites. <i>Nano Letters</i> , 2019, 19, 7827-7835.	9.1	86
54	High Edge Selectivity of In Situ Electrochemical Pt Deposition on Edge-Rich Layered WS ₂ Nanosheets. <i>Advanced Materials</i> , 2018, 30, 1704779.	21.0	84

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55	Free-standing Fe ₂ O ₃ nanomembranes enabling ultra-long cycling life and high rate capability for Li-ion batteries. <i>Scientific Reports</i> , 2014, 4, 7452.	3.3	83
56	Novel Organophosphate-Derived Dual-Layered Interface Enabling Air-Stable and Dendrite-Free Lithium Metal Anode. <i>Advanced Materials</i> , 2020, 32, e1902724.	21.0	83
57	Use of Tween Polymer To Enhance the Compatibility of the Li/Electrolyte Interface for the High-Performance and High-Safety Quasi-Solid-State Lithium-Sulfur Battery. <i>Nano Letters</i> , 2018, 18, 4598-4605.	9.1	81
58	Ultrasmall SnO ₂ Nanocrystals: Hot-bubbling Synthesis, Encapsulation in Carbon Layers and Applications in High Capacity Li-Ion Storage. <i>Scientific Reports</i> , 2015, 4, 4647.	3.3	75
59	Printable Giant Magnetoresistive Devices. <i>Advanced Materials</i> , 2012, 24, 4518-4522.	21.0	74
60	Nonflammable and High-Voltage-Tolerated Polymer Electrolyte Achieving High Stability and Safety in 4.9 V-Class Lithium Metal Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45048-45056.	8.0	73
61	Preparation of on chip, flexible supercapacitor with high performance based on electrophoretic deposition of reduced graphene oxide/polypyrrole composites. <i>Carbon</i> , 2015, 92, 348-353.	10.3	71
62	A New Type of Electrolyte System To Suppress Polysulfide Dissolution for Lithium-Sulfur Battery. <i>ACS Nano</i> , 2019, 13, 9067-9073.	14.6	69
63	An organic nickel salt-based electrolyte additive boosts homogeneous catalysis for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 33, 290-297.	18.0	69
64	Stable Silicon Anodes for Lithium-Ion Batteries Using Mesoporous Metallurgical Silicon. <i>Advanced Energy Materials</i> , 2015, 5, 1401556.	19.5	68
65	Strain-Driven Formation of Multilayer Graphene/GeO ₂ Tubular Nanostructures as High-Capacity and Very Long-Life Anodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 1269-1274.	19.5	67
66	High-rate amorphous SnO ₂ nanomembrane anodes for Li-ion batteries with a long cycling life. <i>Nanoscale</i> , 2015, 7, 282-288.	5.6	66
67	PECVD-derived graphene nanowall/lithium composite anodes towards highly stable lithium metal batteries. <i>Energy Storage Materials</i> , 2019, 22, 29-39.	18.0	65
68	Unprecedented Activity of Bifunctional Electrocatalyst for High Power Density Aqueous Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21216-21224.	8.0	64
69	Single-Atom Iron as Lithiophilic Site To Minimize Lithium Nucleation Overpotential for Stable Lithium Metal Full Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32008-32014.	8.0	64
70	Altering the rate-determining step over cobalt single clusters leading to highly efficient ammonia synthesis. <i>National Science Review</i> , 2021, 8, nwaal136.	9.5	64
71	Boosting Oxygen Dissociation over Bimetal Sites to Facilitate Oxygen Reduction Activity of Zinc-Air Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2006533.	14.9	64
72	Core-Shell Coating Silicon Anode Interfaces with Coordination Complex for Stable Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5358-5365.	8.0	60

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73	Boosting the Optimization of Lithium Metal Batteries by Molecular Dynamics Simulations: A Perspective. <i>Advanced Energy Materials</i> , 2020, 10, 2002373.	19.5	56
74	High-Performance LiO_2 Batteries with Trilayered Pd/MnO _x /Pd Nanomembranes. <i>Advanced Science</i> , 2015, 2, 1500113.	11.2	55
75	All-Liquid-Phase Reaction Mechanism Enabling Cryogenic Li^{S} Batteries. <i>ACS Nano</i> , 2021, 15, 13847-13856.	14.6	55
76	$\text{LiNi}_0.8\text{Co}_0.15\text{Al}_0.05\text{O}_2$ as both a trapper and accelerator of polysulfides for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019, 17, 111-117.	18.0	54
77	Diminishing Interfacial Turbulence by Colloid-Polymer Electrolyte to Stabilize Zinc Ion Flux for Deep-Cycling Zn Metal Batteries. <i>Advanced Materials</i> , 2022, 34, e2200131.	21.0	54
78	A new approach towards the synthesis of nitrogen-doped graphene/MnO ₂ hybrids for ultralong cycle-life lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6291-6296.	10.3	52
79	Oxidizing Vacancies in Nitrogen-Doped Carbon Enhance Air-Cathode Activity. <i>Advanced Materials</i> , 2019, 31, e1803339.	21.0	52
80	Lithium dendrite inhibition via 3D porous lithium metal anode accompanied by inherent SEI layer. <i>Energy Storage Materials</i> , 2020, 26, 385-390.	18.0	52
81	Nanomeshes of highly crystalline nitrogen-doped carbon encapsulated Fe/Fe ₃ C electrodes as ultrafast and stable anodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15008-15014.	10.3	51
82	Single-cluster Au as an usher for deeply cyclable Li metal anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14496-14503.	10.3	51
83	A functional-gradient-structured ultrahigh modulus solid polymer electrolyte for all-solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24477-24485.	10.3	51
84	In-Situ-Formed, Amorphous, Oxygen-Enabled Germanium Anode with Robust Cycle Life for Reversible Lithium Storage. <i>ChemElectroChem</i> , 2015, 2, 737-742.	3.4	50
85	Toward safer solid-state lithium metal batteries: a review. <i>Nanoscale Advances</i> , 2020, 2, 1828-1836.	4.6	50
86	Bioinspired Polysulfiphobic Artificial Interphase Layer on Lithium Metal Anodes for Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30058-30064.	8.0	49
87	Trifluoropropylene Carbonate-Driven Interface Regulation Enabling Greatly Enhanced Lithium Storage Durability of Silicon-Based Anodes. <i>Advanced Functional Materials</i> , 2019, 29, 1906548.	14.9	49
88	2D Materials for Inhibiting the Shuttle Effect in Advanced Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2020, 13, 1447-1479.	6.8	49
89	Artificial Lithium Isopropyl-Sulfide Macromolecules as an Ion-Selective Interface for Long-Life Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54537-54544.	8.0	49
90	Unveiling the Essential Nature of Lewis Basicity in Thermodynamically and Dynamically Promoted Nitrogen Fixation. <i>Advanced Functional Materials</i> , 2020, 30, 2001244.	14.9	49

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91	Greatly Improved Conductivity of Double-Chain Polymer Network Binder for High Sulfur Loading Lithium-Sulfur Batteries with a Low Electrolyte/Sulfur Ratio. <i>Small</i> , 2018, 14, e1801536.	10.0	47
92	Updating the Intrinsic Activity of a Single-Atom Site with a P=O Bond for a Rechargeable Zn-Air Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33054-33061.	8.0	47
93	Selenium-Doped Carbon Nanosheets with Strong Electron Cloud Delocalization for Nondeposition of Metal Oxides on Air Cathode of Zinc-Air Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20056-20063.	8.0	46
94	Accelerating Ion Dynamics Under Cryogenic Conditions by the Amorphization of Crystalline Cathodes. <i>Advanced Materials</i> , 2021, 33, e2102634.	21.0	46
95	A Single Rolled-Up Si Tube Battery for the Study of Electrochemical Kinetics, Electrical Conductivity, and Structural Integrity. <i>Advanced Materials</i> , 2014, 26, 7973-7978.	21.0	45
96	Pyridinic and graphitic nitrogen-enriched carbon paper as a highly active bifunctional catalyst for Zn-air batteries. <i>Electrochimica Acta</i> , 2020, 334, 135562.	5.2	45
97	Ni/Fe Ratio Dependence of Catalytic Activity in Monodisperse Ternary Nickel Iron Phosphide for Efficient Water Oxidation. <i>ChemElectroChem</i> , 2017, 4, 2150-2157.	3.4	44
98	Active Fe Sites in Carbon Nanosheets as Oxygen Reduction Electrocatalyst for Flexible All-Solid-State Zinc-Air Batteries. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700085.	5.3	43
99	Single lithium-ion channel polymer binder for stabilizing sulfur cathodes. <i>National Science Review</i> , 2020, 7, 315-323.	9.5	43
100	Single-atom scale metal vacancy engineering in heteroatom-doped carbon for rechargeable zinc-air battery with reduced overpotential. <i>Chemical Engineering Journal</i> , 2020, 393, 124702.	12.7	43
101	Stationary Full Li-Ion Batteries with Interlayer-Expanded V ₆ O ₁₃ Cathodes and Lithiated Graphite Anodes. <i>Electrochimica Acta</i> , 2016, 203, 171-177.	5.2	42
102	Blending Fe ₃ O ₄ into a Ni/NiO composite for efficient and stable bifunctional electrocatalyst. <i>Electrochimica Acta</i> , 2018, 264, 225-232.	5.2	42
103	Double-shelled hollow carbon spheres confining tin as high-performance electrodes for lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 321, 134672.	5.2	42
104	SnS ₂ quantum dots growth on MoS ₂ : Atomic-level heterostructure for electrocatalytic hydrogen evolution. <i>Electrochimica Acta</i> , 2019, 300, 45-52.	5.2	42
105	In Situ/Operando Spectroscopic Characterizations Guide the Compositional and Structural Design of Lithium-Sulfur Batteries. <i>Small Methods</i> , 2020, 4, 1900467.	8.6	42
106	Mechanically Robust Gel Polymer Electrolyte for an Ultrastable Sodium Metal Battery. <i>Small</i> , 2020, 16, e1906208.	10.0	42
107	In-situ observation as activity descriptor enables rational design of oxygen reduction catalyst for zinc-air battery. <i>Energy Storage Materials</i> , 2020, 27, 226-231.	18.0	42
108	Pd-functionalized MnO-GeO _y nanomembranes as highly efficient cathode materials for Li-O ₂ batteries. <i>Nano Energy</i> , 2016, 19, 428-436.	16.0	41

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109	Interfacial Microextraction Boosting Nitrogen Feed for Efficient Ambient Ammonia Synthesis in Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	41
110	Heteroepitaxial Growth of GaSb Nanotrees with an Ultra-Low Reflectivity in a Broad Spectral Range. <i>Nano Letters</i> , 2012, 12, 1799-1805.	9.1	39
111	Unity of Opposites between Soluble and Insoluble Lithium Polysulfides in Lithium Sulfur Batteries. <i>Advanced Materials</i> , 2022, 34, .	21.0	38
112	High coulombic efficiency and high-rate capability lithium sulfur batteries with low-solubility lithium polysulfides by using alkylene radicals to covalently connect sulfur. <i>Nano Energy</i> , 2017, 41, 758-764.	16.0	37
113	Recent Progress on Molybdenum Oxides for Rechargeable Batteries. <i>ChemSusChem</i> , 2019, 12, 755-771.	6.8	37
114	Half and full sodium-ion batteries based on maize with high-loading density and long-cycle life. <i>Nanoscale</i> , 2016, 8, 15497-15504.	5.6	35
115	High Coulombic efficiency cathode with nitril grafted sulfur for Li-S battery. <i>Energy Storage Materials</i> , 2019, 17, 260-265.	18.0	35
116	Highly Flexible Full Lithium Batteries with Self-Knitted MnO_2 Fabric Foam. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25298-25305.	8.0	34
117	Stabilized Lithium Sulfur Batteries by Covalently Binding Sulfur onto the Thiol-Terminated Polymeric Matrices. <i>Small</i> , 2017, 13, 1702104.	10.0	34
118	Super lithiophilic SEI derived from quinones electrolyte to guide Li uniform deposition. <i>Energy Storage Materials</i> , 2020, 24, 426-431.	18.0	34
119	Atomic Metal Vacancy Modulation of Single-Atom Dispersed Co/N/C for Highly Efficient and Stable Air Cathode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15298-15304.	8.0	33
120	High areal capacity, micrometer-scale amorphous Si film anode based on nanostructured Cu foil for Li-ion batteries. <i>Journal of Power Sources</i> , 2014, 267, 629-634.	7.8	31
121	Realizing high performance of solid-state lithium metal batteries by flexible ceramic/polymer hybrid solid electrolyte. <i>Rare Metals</i> , 2020, 39, 458-459.	7.1	31
122	A novel one-step reaction sodium sulfur battery with high areal sulfur loading on hierarchical porous carbon fiber. , 2021, 3, 440-448.		31
123	On-chip supercapacitors with ultrahigh volumetric performance based on electrochemically co-deposited CuO/polypyrrole nanosheet arrays. <i>Nanotechnology</i> , 2015, 26, 425402.	2.6	30
124	Aluminum-Tailored Energy Level and Morphology of $\text{Co}_3\text{O}_4/\text{Al}_2\text{O}_3$ Porous Nanosheets toward Highly Efficient Electrocatalysts for Water Oxidation. <i>Small</i> , 2019, 15, e1804886.	10.0	30
125	Bifunctional Au-Pd decorated MnO_x nanomembranes as cathode materials for Li-O_2 batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4155-4160.	10.3	29
126	Nitrogen-doped graphdiyne nanowall stabilized dendrite-free lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27535-27546.	10.3	28

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127	Insight into the reaction mechanism of sulfur chains adjustable polymer cathode for high-loading lithium-organosulfur batteries. <i>Journal of Energy Chemistry</i> , 2021, 56, 238-244.	12.9	28
128	Low-temperature Li-S batteries enabled by all amorphous conversion process of organosulfur cathode. <i>Journal of Energy Chemistry</i> , 2022, 64, 496-502.	12.9	28
129	Processing robust lithium metal anode for high-security batteries: A minireview. <i>Energy Storage Materials</i> , 2022, 47, 122-133.	18.0	28
130	Accelerated Ionic and Charge Transfer through Atomic Interfacial Electric Fields for Superior Sodium Storage. <i>ACS Nano</i> , 2022, 16, 4775-4785.	14.6	28
131	Dendrite-free and Ultra-High energy lithium sulfur battery enabled by dimethyl polysulfide intermediates. <i>Energy Storage Materials</i> , 2020, 24, 265-271.	18.0	26
132	Rapid leakage responsive and self-healing Li-metal batteries. <i>Chemical Engineering Journal</i> , 2021, 404, 126470.	12.7	26
133	Paired Electrochemical N-C Coupling Employing a Surface-Hydroxylated Ni ₃ Fe-MOF-OH Bifunctional Electrocatalyst with Enhanced Adsorption of Nitroarenes and Anilines. <i>ACS Catalysis</i> , 2021, 11, 13510-13518.	11.2	26
134	Hollow micro/nanostructured materials prepared by ion exchange synthesis and their potential applications. <i>New Journal of Chemistry</i> , 2014, 38, 1883-1904.	2.8	24
135	Nitrogen-Doped Carbon Coated WS ₂ Nanosheets as Anode for High-Performance Sodium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2018, 6, 236.	3.6	22
136	Boron-Modified Electron Transfer in Metallic 1T MoSe ₂ for Enhanced Inherent Activity on Per-Catalytic Site toward Hydrogen Evolution. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901560.	3.7	22
137	Healable Lithium Alloy Anode with Ultrahigh Capacity. <i>Nano Letters</i> , 2021, 21, 5021-5027.	9.1	21
138	Surface Sulfur Vacancy Engineering of Metal Sulfides Promoted Desorption of Hydrogen Atoms for Enhanced Electrocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12707-12712.	3.1	21
139	Redox Chemistry of Molybdenum Trioxide for Ultrafast Hydrogen Ion Storage. <i>Angewandte Chemie</i> , 2018, 130, 11743-11747.	2.0	20
140	Interfacial engineering of carbon-based materials for efficient electrocatalysis: Recent advances and future. <i>EnergyChem</i> , 2022, 4, 100074.	19.1	20
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