

Haoshen Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

556
papers

43,251
citations

111
h-index

184
g-index

586
ext. papers

48,357
ext. citations

12.2
avg, IF

8.06
L-index

#	Paper	IF	Citations
556	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism.. <i>Science Advances</i> , 2022 , 8, eabm1899	14.3	9
555	Highly safe and stable lithium-metal batteries based on a quasi-solid-state electrolyte. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 651-663	13	3
554	Achieving long cycle life for all-solid-state rechargeable Li-I battery by a confined dissolution strategy.. <i>Nature Communications</i> , 2022 , 13, 125	17.4	2
553	Long-enduring oxygen redox enabling robust layered cathodes for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2022 , 435, 134944	14.7	1
552	Status and challenges facing representative anode materials for rechargeable lithium batteries. <i>Journal of Energy Chemistry</i> , 2022 , 66, 260-294	12	26
551	Long-Life Aqueous Zn-I Battery Enabled by a Low-Cost Multifunctional Zeolite Membrane Separator.. <i>Nano Letters</i> , 2022 ,	11.5	6
550	A high-voltage anode-free rechargeable sodium battery.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	6
549	A stable quasi-solid electrolyte improves the safe operation of highly efficient lithium-metal pouch cells in harsh environments.. <i>Nature Communications</i> , 2022 , 13, 1510	17.4	7
548	Synergetic Anion-Cation Redox Ensures a Highly Stable Layered Cathode for Sodium-Ion Batteries.. <i>Advanced Science</i> , 2022 , e2105280	13.6	3
547	Tailoring the solvation sheath of cations by constructing electrode front-faces for rechargeable batteries.. <i>Advanced Materials</i> , 2022 , e2201339	24	9
546	Carbon-free and binder-free Li-Al alloy anode enabling an all-solid-state Li-S battery with high energy and stability.. <i>Science Advances</i> , 2022 , 8, eabn4372	14.3	10
545	Structure design enables stable anionic and cationic redox chemistry in a T2-type Li-excess layered oxide cathode. <i>Science Bulletin</i> , 2021 , 67, 381-381	10.6	2
544	Progress and Prospects in Redox Mediators for Highly Reversible Lithium-Oxygen Batteries: A Minireview. <i>Energy & Fuels</i> , 2021 , 35, 19302-19319	4.1	1
543	Advanced cobalt-free cathode materials for sodium-ion batteries. <i>Chemical Society Reviews</i> , 2021 , 50, 13189-13235	58.5	22
542	A high-capacity cathode for rechargeable K-metal battery based on reversible superoxide-peroxide conversion. <i>National Science Review</i> , 2021 , 8, nwaa287	10.8	6
541	Recent Advances in Rechargeable Li-O ₂ Batteries. <i>Energy & Fuels</i> , 2021 , 35, 9165-9186	4.1	10
540	A Safe and Sustainable Lithium-Ion-Oxygen Battery based on a Low-Cost Dual-Carbon Electrodes Architecture. <i>Advanced Materials</i> , 2021 , 33, e2100827	24	9

539	Pinning Effect Enhanced Structural Stability toward a Zero-Strain Layered Cathode for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13366-13371	16.4	27
538	Pinning Effect Enhanced Structural Stability toward a Zero-Strain Layered Cathode for Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 13478-13483	3.6	7
537	A high efficiency electrolyte enables robust inorganic/organic solid electrolyte interfaces for fast Li metal anode. <i>Science Bulletin</i> , 2021 , 66, 897-903	10.6	7
536	A high-energy-density and long-life initial-anode-free lithium battery enabled by a Li ₂ O sacrificial agent. <i>Nature Energy</i> , 2021 , 6, 653-662	62.3	46
535	Achieving stable anionic redox chemistry in Li-excess O ₂ -type layered oxide cathode via chemical ion-exchange strategy. <i>Energy Storage Materials</i> , 2021 , 38, 1-8	19.4	12
534	Sustainable Lithium-Metal Battery Achieved by a Safe Electrolyte Based on Recyclable and Low-Cost Molecular Sieve. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15572-15581	16.4	11
533	Sustainable Lithium-Metal Battery Achieved by a Safe Electrolyte Based on Recyclable and Low-Cost Molecular Sieve. <i>Angewandte Chemie</i> , 2021 , 133, 15700-15709	3.6	1
532	Designing Cation-Solvent Fully Coordinated Electrolyte for High-Energy-Density Lithium-Sulfur Full Cell Based On Solid-Solid Conversion. <i>Angewandte Chemie</i> , 2021 , 133, 17867-17875	3.6	3
531	Incorporation of LiF into functionalized polymer fiber networks enabling high capacity and high rate cycling of lithium metal composite anodes. <i>Chemical Engineering Journal</i> , 2021 , 404, 126508	14.7	11
530	In-situ/operando characterization techniques in lithium-ion batteries and beyond. <i>Journal of Energy Chemistry</i> , 2021 , 59, 191-211	12	23
529	Stabilizing Anionic Redox Chemistry in a Mn-Based Layered Oxide Cathode Constructed by Li-Deficient Pristine State. <i>Advanced Materials</i> , 2021 , 33, e2004280	24	33
528	A low-charge-overpotential lithium-CO ₂ cell based on a binary molten salt electrolyte. <i>Energy and Environmental Science</i> , 2021 , 14, 4107-4114	35.4	4
527	Applications of Metal-organic Frameworks (MOFs) Materials in Lithium-ion Battery/Lithium-metal Battery Electrolytes. <i>Acta Chimica Sinica</i> , 2021 , 79, 139	3.3	3
526	A high-stability biphasic layered cathode for sodium-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 2891-2894	5.8	3
525	Oxygen vacancy promising highly reversible phase transition in layered cathodes for sodium-ion batteries. <i>Nano Research</i> , 2021 , 14, 4100	10	6
524	Designing Cation-Solvent Fully Coordinated Electrolyte for High-Energy-Density Lithium-Sulfur Full Cell Based On Solid-Solid Conversion. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17726-17734	16.4	16
523	Reducing Water Activity by Zeolite Molecular Sieve Membrane for Long-Life Rechargeable Zinc Battery. <i>Advanced Materials</i> , 2021 , 33, e2102415	24	37
522	Sifting weakly-coordinated solvents within solvation sheath through an electrolyte filter for high-voltage lithium-metal batteries. <i>Energy Storage Materials</i> , 2021 ,	19.4	3

521	Two-dimensional Mo-based compounds for the Li-O ₂ batteries: Catalytic performance and electronic structure studies. <i>Energy Storage Materials</i> , 2021 , 41, 650-655	19.4	8
520	A rechargeable all-solid-state Li-O ₂ battery using a Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ ceramic electrolyte and nanoscale RuO ₂ catalyst. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9581-9585	13	6
519	Two-dimensional metal-organic framework with perpendicular one-dimensional nano-channel as precise polysulfide sieves for highly efficient lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4870-4879	13	5
518	Oxygen-Deficient Ferric Oxide as an Electrochemical Cathode Catalyst for High-Energy Lithium-Sulfur Batteries. <i>Small</i> , 2020 , 16, e2000870	11	26
517	A low-cost anodic catalyst of transition metal oxides for lithium extraction from seawater. <i>Chemical Communications</i> , 2020 , 56, 6396-6399	5.8	6
516	A Liquid Anode of Lithium Biphenyl for Highly Safe Lithium-Air Battery with Hybrid Electrolyte. <i>Batteries and Supercaps</i> , 2020 , 3, 708-712	5.6	2
515	Revealing the Impact of Space-Charge Layers on the Li-Ion Transport in All-Solid-State Batteries. <i>Joule</i> , 2020 , 4, 1311-1323	27.8	47
514	A 500 Wh/kg Lithium-Metal Cell Based on Anionic Redox. <i>Joule</i> , 2020 , 4, 1445-1458	27.8	39
513	Constructing a Super-Saturated Electrolyte Front Surface for Stable Rechargeable Aqueous Zinc Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9377-9381	16.4	234
512	Constructing a Super-Saturated Electrolyte Front Surface for Stable Rechargeable Aqueous Zinc Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 9463-9467	3.6	31
511	A Safe Organic Oxygen Battery Built with Li-Based Liquid Anode and MOFs Separator. <i>Advanced Energy Materials</i> , 2020 , 10, 1903953	21.8	18
510	Stabilizing Reversible Oxygen Redox Chemistry in Layered Oxides for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903785	21.8	35
509	Solar-driven all-solid-state lithium-air batteries operating at extreme low temperatures. <i>Energy and Environmental Science</i> , 2020 , 13, 1205-1211	35.4	19
508	Ni-Doped Layered Manganese Oxide as a Stable Cathode for Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10490-10495	9.5	23
507	A stable high-voltage lithium-ion battery realized by an in-built water scavenger. <i>Energy and Environmental Science</i> , 2020 , 13, 1197-1204	35.4	31
506	Dilution of the Electron Density in the π -Conjugated Skeleton of Organic Cathode Materials Improves the Discharge Voltage. <i>ChemSusChem</i> , 2020 , 13, 2264-2270	8.3	15
505	Using a Heme-Based Nanozyme as Bifunctional Redox Mediator for Li-O ₂ Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 336-340	5.6	7
504	LiF Protective Layer on a Li Anode: Toward Improving the Performance of Li-O Batteries with a Redox Mediator. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18490-18495	9.5	19

503	A Superlattice-Stabilized Layered Oxide Cathode for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1907936	24	26
502	Li-CO and Na-CO Batteries: Toward Greener and Sustainable Electrical Energy Storage. <i>Advanced Materials</i> , 2020 , 32, e1903790	24	82
501	Superior efficient rechargeable lithium-air batteries using a bifunctional biological enzyme catalyst. <i>Energy and Environmental Science</i> , 2020 , 13, 144-151	35.4	9
500	Towards a stable Li ₂ CO ₂ battery: The effects of CO ₂ to the Li metal anode. <i>Energy Storage Materials</i> , 2020 , 26, 443-447	19.4	31
499	Suppressing Cation Migration and Reducing Particle Cracks in a Layered Fe-Based Cathode for Advanced Sodium-Ion Batteries. <i>Small</i> , 2020 , 16, e1904388	11	28
498	Identifying Anionic Redox Activity within the Related O ₃ - and P ₂ -Type Cathodes for Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 851-857	9.5	13
497	Renewable Polysulfide Regulation by Versatile Films toward High-Loading Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47590-47598	9.5	5
496	An in situ solidifying strategy enabling high-voltage all-solid-state Li-metal batteries operating at room temperature. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25217-25225	13	7
495	P ₂ -Type Layered NaNiRuMnO Cathode Material with Excellent Rate Performance for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39056-39062	9.5	10
494	Elucidating Anionic Redox Chemistry in P ₃ Layered Cathode for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38249-38255	9.5	9
493	A Liquid Electrolyte with De-Solvated Lithium Ions for Lithium-Metal Battery. <i>Joule</i> , 2020 , 4, 1776-1789	27.8	62
492	A Metal-Organic Framework as a Multifunctional Ionic Sieve Membrane for Long-Life Aqueous Zinc-Iodide Batteries. <i>Advanced Materials</i> , 2020 , 32, e2004240	24	82
491	Integrating P ₂ into O ₃ toward a robust Mn-Based layered cathode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23820-23826	13	5
490	A Review of Solid-State Lithium-Sulfur Battery: Ion Transport and Polysulfide Chemistry. <i>Energy & Fuels</i> , 2020 , 34, 11942-11961	4.1	26
489	Beyond the concentrated electrolyte: further depleting solvent molecules within a Li ⁺ solvation sheath to stabilize high-energy-density lithium metal batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 4122-4131	35.4	48
488	Tuning Interface Bridging Between MoSe and Three-Dimensional Carbon Framework by Incorporation of MoC Intermediate to Boost Lithium Storage Capability. <i>Nano-Micro Letters</i> , 2020 , 12, 171	19.5	15
487	Anion-Cation Synergetic Contribution to High Capacity, Structurally Stable Cathode Materials for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2005164	15.6	21
486	Fabricating better metal-organic frameworks separators for Li-ion batteries: Pore sizes effects inspired channel modification strategy. <i>Energy Storage Materials</i> , 2020 , 25, 164-171	19.4	46

- 485 A high-performance layered Cr-Based cathode for sodium-ion batteries. *Nano Energy*, **2020**, 67, 104215 17.1 26
- 484 Restraining Oxygen Loss and Suppressing Structural Distortion in a Newly Ti-Substituted Layered Oxide P2-Na_{0.66}Li_{0.22}Ti_{0.15}Mn_{0.63}O₂. *ACS Energy Letters*, **2019**, 4, 2409-2417 20.1 58
- 483 Rational Design of a Gel-Polymer-Inorganic Separator with Uniform Lithium-Ion Deposition for Highly Stable Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 35788-35795 9.5 17
- 482 Review on anionic redox in sodium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 23662-23678 13 45
- 481 Halogen conversion-intercalation chemistry promises high energy density Li-ion battery. *Science Bulletin*, **2019**, 64, 1393-1395 10.6 8
- 480 A New Type of Li-Rich Rock-Salt Oxide Li Ni Ru O with Reversible Anionic Redox Chemistry. *Advanced Materials*, **2019**, 31, e1807825 24 61
- 479 Na₂Ru_{1-x}Mn_xO₃ as the cathode for sodium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 4395-4399 13 14
- 478 Advances and Challenges for Aprotic Lithium-Oxygen Batteries using Redox Mediators. *Batteries and Supercaps*, **2019**, 2, 803-819 5.6 26
- 477 Developing A Polysulfide-Phobic Strategy to Restrain Shuttle Effect in Lithium-Sulfur Batteries. *Angewandte Chemie*, **2019**, 131, 11900-11904 3.6 18
- 476 Developing A "Polysulfide-Phobic" Strategy to Restrain Shuttle Effect in Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 11774-11778 16.4 58
- 475 Killing two birds with one stone: a Cu ion redox mediator for a non-aqueous Li-O₂ battery. *Journal of Materials Chemistry A*, **2019**, 7, 17261-17265 13 18
- 474 Enhanced K-ion kinetics in a layered cathode for potassium ion batteries. *Chemical Communications*, **2019**, 55, 7910-7913 5.8 26
- 473 Manganese-Based Na-Rich Materials Boost Anionic Redox in High-Performance Layered Cathodes for Sodium-Ion Batteries. *Advanced Materials*, **2019**, 31, e1807770 24 72
- 472 Integrated solid electrolyte with porous cathode by facilely one-step sintering for an all-solid-state Li-O battery. *Nanotechnology*, **2019**, 30, 364003 3.4 9
- 471 The potential of electrolyte filled MOF membranes as ionic sieves in rechargeable batteries. *Energy and Environmental Science*, **2019**, 12, 2327-2344 35.4 76
- 470 Materials for advanced Li-O₂ batteries: Explorations, challenges and prospects. *Materials Today*, **2019**, 26, 87-99 21.8 70
- 469 Suppressed the High-Voltage Phase Transition of P2-Type Oxide Cathode for High-Performance Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 14848-14853 9.5 40
- 468 Capturing Reversible Cation Migration in Layered Structure Materials for Na-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1900189 21.8 29

467	A Dual-Ion Organic Symmetric Battery Constructed from Phenazine-Based Artificial Bipolar Molecules. <i>Angewandte Chemie</i> , 2019 , 131, 10007-10011	3.6	19
466	A Dual-Ion Organic Symmetric Battery Constructed from Phenazine-Based Artificial Bipolar Molecules. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9902-9906	16.4	76
465	Exploration of Advanced Electrode Materials for Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1800212	21.8	139
464	Adverse effects of interlayer-gliding in layered transition-metal oxides on electrochemical sodium-ion storage. <i>Energy and Environmental Science</i> , 2019 , 12, 825-840	35.4	138
463	Solid-State Electrolytes for Lithium-Ion Batteries: Fundamentals, Challenges and Perspectives. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 574-605	29.3	113
462	Unraveling the anionic oxygen loss and related structural evolution within O3-type Na layered oxide cathodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20405-20413	13	10
461	Improvement of preparation process for Li-ion conducting membranes composed of monolayered inorganic electrolyte particles and insulating polymer matrix. <i>Solid State Ionics</i> , 2019 , 341, 115037	3.3	1
460	The Design of Quaternary Nitrogen Redox Center for High-Performance Organic Battery Materials. <i>Matter</i> , 2019 , 1, 945-958	12.7	33
459	Sodium Alginate Enabled Advanced Layered Manganese-Based Cathode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26817-26823	9.5	17
458	H ₂ O self-trapping air cathode of LiO ₂ battery enabling low charge potential operating in dry system. <i>Nano Energy</i> , 2019 , 64, 103945	17.1	16
457	A promising Mo-based lithium-rich phase for Li-ion batteries.. <i>RSC Advances</i> , 2019 , 9, 17852-17855	3.7	2
456	Understanding the effect of the concentration of LiNO ₃ salt in LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18318-18323	13	14
455	Advanced Hybrid Electrolyte Li-O ₂ Battery Realized by Dual Superlyophobic Membrane. <i>Joule</i> , 2019 , 3, 2986-3001	27.8	30
454	Designing a Multifunctional Separator for High-Performance Li-S Batteries at Elevated Temperature. <i>Small</i> , 2019 , 15, e1904332	11	21
453	Advances and Challenges for Aprotic Lithium-Oxygen Batteries using Redox Mediators. <i>Batteries and Supercaps</i> , 2019 , 2, 802-802	5.6	3
452	A high-energy-density and long-life lithium-ion battery via reversible oxide/peroxide conversion. <i>Nature Catalysis</i> , 2019 , 2, 1035-1044	36.5	90
451	Hybrid polymer electrolyte for LiO ₂ batteries. <i>Green Energy and Environment</i> , 2019 , 4, 3-19	5.7	16
450	Revealing the Critical Role of Titanium in Layered Manganese-Based Oxides toward Advanced Sodium-Ion Batteries via a Combined Experimental and Theoretical Study. <i>Small Methods</i> , 2019 , 3, 1800183	12.8	20

449	A Versatile Halide Ester Enabling Li-Anode Stability and a High Rate Capability in Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 2377-2381	3.6	7
448	A Versatile Halide Ester Enabling Li-Anode Stability and a High Rate Capability in Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2355-2359	16.4	40
447	High-energy Mn-based layered cathodes for sodium-ion batteries. <i>Science Bulletin</i> , 2019 , 64, 149-150	10.6	3
446	NonAqueous, Metal-Free, and Hybrid Electrolyte Li-Ion O Battery with a Single-Ion-Conducting Separator. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4908-4914	9.5	11
445	A Concentrated Ternary-Salts Electrolyte for High Reversible Li Metal Battery with Slight Excess Li. <i>Advanced Energy Materials</i> , 2019 , 9, 1803372	21.8	108
444	Effective strategies for long-cycle life lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6155-6182	13	125
443	Electrochemical Oscillation in Li-Ion Batteries. <i>Joule</i> , 2018 , 2, 1265-1277	27.8	29
442	Recent advances in functional modification of separators in lithium-sulfur batteries. <i>Dalton Transactions</i> , 2018 , 47, 6881-6887	4.3	38
441	Both Cationic and Anionic Co-(de)intercalation into a Metal-Oxide Material. <i>Joule</i> , 2018 , 2, 1134-1145	27.8	70
440	Direct Visualization of the Reversible O /O Redox Process in Li-Rich Cathode Materials. <i>Advanced Materials</i> , 2018 , 30, e1705197	24	190
439	Germanium Thin Film Protected Lithium Aluminum Germanium Phosphate for Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702374	21.8	146
438	Cation-mixing stabilized layered oxide cathodes for sodium-ion batteries. <i>Science Bulletin</i> , 2018 , 63, 376-384	38.4	50
437	Reversible anionic redox activity in Na ₃ RuO ₄ cathodes: a prototype Na-rich layered oxide. <i>Energy and Environmental Science</i> , 2018 , 11, 299-305	35.4	90
436	Tailoring Sodium Anodes for Stable Sodium-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1706374	15.6	41
435	MOF-Based Separator in an LiO ₂ Battery: An Effective Strategy to Restrain the Shuttling of Dual Redox Mediators. <i>ACS Energy Letters</i> , 2018 , 3, 463-468	20.1	116
434	Research progresses on materials and electrode design towards key challenges of Li-air batteries. <i>Energy Storage Materials</i> , 2018 , 13, 29-48	19.4	63
433	Amorphous PS/C Composite as High-Performance Anode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16-20	9.5	13
432	Fabrication and impedance analysis for designed composite layers with polymer and inorganic electrolytes leading to high conductivity. <i>Solid State Ionics</i> , 2018 , 316, 29-33	3.3	10

431	Clean Electrocatalysis in a Li ₂ O ₂ Redox-Based Li ₂ O ₂ Battery Built with a Hydrate-Melt Electrolyte. <i>ACS Catalysis</i> , 2018 , 8, 1082-1089	13.1	21
430	A single ion conducting separator and dual mediator-based electrolyte for high-performance lithium-oxygen batteries with non-carbon cathodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9816-9822	13	33
429	Porous hybrid aerogels with ultrahigh sulfur loading for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9032-9040	13	28
428	A bottom-up synthetic hierarchical buffer structure of copper silicon nanowire hybrids as ultra-stable and high-rate lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7877-7886	13	27
427	Li ₂ CO ₃ -free Li ₂ O ₂ /CO ₂ battery with peroxide discharge product. <i>Energy and Environmental Science</i> , 2018 , 11, 1211-1217	35.4	84
426	Solar-driven efficient Li ₂ O ₂ oxidation in solid-state Li-ion O ₂ batteries. <i>Energy Storage Materials</i> , 2018 , 11, 170-175	19.4	35
425	Rechargeable Solid-State Li-Air and Li-S Batteries: Materials, Construction, and Challenges. <i>Advanced Energy Materials</i> , 2018 , 8, 1701602	21.8	165
424	A Hybrid Electrolytes Design for Capacity-Equivalent Dual-Graphite Battery with Superior Long-Term Cycle Life. <i>Advanced Energy Materials</i> , 2018 , 8, 1801120	21.8	33
423	A current collector covering nanostructured villous oxygen-deficient NiO fabricated by rapid laser-scan for Li-O ₂ batteries. <i>Nano Energy</i> , 2018 , 51, 83-90	17.1	41
422	Research Progress for the Development of Li-Air Batteries: Addressing Parasitic Reactions Arising from Air Composition. <i>Energy and Environmental Materials</i> , 2018 , 1, 61-74	13	32
421	A phase-transition-free cathode for sodium-ion batteries with ultralong cycle life. <i>Nano Energy</i> , 2018 , 52, 88-94	17.1	36
420	An ultrafast rechargeable lithium metal battery. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15517-15522	13	28
419	Developing a "Water-Defendable" and "Dendrite-Free" Lithium-Metal Anode Using a Simple and Promising GeCl Pretreatment Method. <i>Advanced Materials</i> , 2018 , 30, e1705711	24	142
418	A High-Crystalline NaV _{1.25} Ti _{0.75} O ₄ Anode for Wide-Temperature Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2018 , 8, 1801162	21.8	23
417	Lithium Borocarbide LiBC as an Anode Material for Rechargeable Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18231-18236	3.8	13
416	Boosting the Cycle Life of Aprotic Li ₂ O ₂ Batteries via a Photo-Assisted Hybrid Li ₂ O ₂ -Scavenging Strategy. <i>Small Methods</i> , 2018 , 2, 1700284	12.8	28
415	An ultra-stable and enhanced reversibility lithium metal anode with a sufficient O ₂ design for Li-O ₂ battery. <i>Energy Storage Materials</i> , 2018 , 12, 176-182	19.4	29
414	Ultra-fine surface solid-state electrolytes for long cycle life all-solid-state lithium-air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21248-21254	13	43

413	Minimizing the Abnormal High-Potential Discharge Process Related to Redox Mediators in Lithium-Oxygen Batteries. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6761-6766	6.4	9
412	High-Voltage Li-Ion Full-Cells with Ultralong Term Cycle Life at Elevated Temperature. <i>Advanced Energy Materials</i> , 2018 , 8, 1802322	21.8	22
411	Lithium Metal Extraction from Seawater. <i>Joule</i> , 2018 , 2, 1648-1651	27.8	121
410	High-Power Li-Metal Anode Enabled by Metal-Organic Framework Modified Electrolyte. <i>Joule</i> , 2018 , 2, 2117-2132	27.8	153
409	Simultaneously Inhibiting Lithium Dendrites Growth and Polysulfides Shuttle by a Flexible MOF-Based Membrane in LiS Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802130	21.8	158
408	Stable Voltage Cutoff Cycle Cathode with Tunable and Ordered Porous Structure for Li-O Batteries. <i>Small</i> , 2018 , 14, e1803607	11	14
407	A Multifunctional Silly-Putty Nanocomposite Spontaneously Repairs Cathode Composite for Advanced LiS Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1804777	15.6	33
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