Yunhui Huang

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.

512 papers	37,583 citations	102 h-index	175 g-index
544 ext. papers	44,675 ext. citations	12.5 avg, IF	7.8 L-index

#	Paper	IF	Citations
512	Sensitive sensors based on bilayer organic field-effect transistors for detecting lithium-ion battery electrolyte leakage. *Science China Materials*, **2022**, 65, 1187	7.1	0
511	Evaluating Interfacial Stability in Solid-State Pouch Cells via Ultrasonic Imaging. *ACS Energy Letters*, **2022**, 7, 650-658	20.1	4
510	Stable Room-Temperature Sodium-Sulfur Batteries in Ether-Based Electrolytes Enabled by the Fluoroethylene Carbonate Additive.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	2
509	Deciphering the Role of Fluoroethylene Carbonate towards Highly Reversible Sodium Metal Anodes.. *Research*, **2022**, 2022, 9754612	7.8	3
508	Electronic Localization Derived Excellent Stability of Li Metal Anode with Ultrathin Alloy.. *Advanced Science*, **2022**, e2105656	13.6	3
507	Highly Reversible and Anticorrosive Zn Anode Enabled by a Ag Nanowires Layer.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	3
506	Construction of □MnS/□-MnS hetero-phase junction for high-performance sodium-ion batteries. *Chemical Engineering Journal*, **2022**, 435, 135149	14.7	3
505	Enabling Selenium-Rich SexSy Cathodes to Work in Carbonate-Based Electrolytes. *Advanced Energy Materials*, **2022**, 12, 2102832	21.8	1
504	Tailoring a multifunctional, boron and fluoride-enriched solid-electrolyte interphase precursor towards high-rate and stable-cycling silicon anodes. *Nano Energy*, **2022**, 93, 106811	17.1	3
503	Regulating solvation structure to stabilize zinc anode by fastening the free water molecules with an inorganic colloidal electrolyte. *Nano Energy*, **2022**, 93, 106839	17.1	13
502	Rational construction of hollow nanoboxes for long cycle life alkali metal ion batteries. *Journal of Materials Science and Technology*, **2022**, 102, 46-55	9.1	2
501	Reversible lithium storage in sp2 hydrocarbon frameworks. *Journal of Energy Chemistry*, **2022**, 66, 161-167	12	0
500	Solid/Quasi-Solid Phase Conversion of Sulfur in Lithium-Sulfur Battery.. *Small*, **2022**, e2106970	11	2
499	Building Practical High-voltage Cathode Materials for Lithium-ion Batteries.. *Advanced Materials*, **2022**, e2200912	24	8
498	In Situ Constructing Coordination Compounds Interphase to Stabilize Zn Metal Anode for High-Performance Aqueous Zn-SeS Batteries.. *Small*, **2022**, e2200567	11	2
497	Low-cost fumed silicon dioxide uniform Li+ flux for lean-electrolyte and anode-free Li/S battery. *Energy Storage Materials*, **2022**, 48, 366-374	19.4	2
496	High-Capacity and Long-Life Zinc Electrodeposition Enabled by a Self-Healable and Desolvation Shield for Aqueous Zinc-Ion Batteries.. *Angewandte Chemie - International Edition*, **2021**,	16.4	12

495	Enabling Anionic Redox Stability of P2-Na Li Mn O by Mg Substitution.. *Advanced Materials*, **2021**, e2105404	24	9
494	Construction of an N-Decorated Carbon-Encapsulated WC/WP Heterostructure as an Efficient Electrocatalyst for Hydrogen Evolution in Both Alkaline and Acidic Media. *ACS Applied Materials & Interfaces*, **2021**, 13, 53955-53964	9.5	1
493	An oxygen vacancy-rich ZnO layer on garnet electrolyte enables dendrite-free solid state lithium metal batteries. *Chemical Engineering Journal*, **2021**, 433, 133665	14.7	1
492	Post-Synthetic and In Situ Vacancy Repairing of Iron Hexacyanoferrate Toward Highly Stable Cathodes for Sodium-Ion Batteries. *Nano-Micro Letters*, **2021**, 14, 9	19.5	1
491	Gram-Scale Synthesis of Nanosized Li HoBr Solid Electrolyte for All-Solid-State Li-Se Battery.. *Small Methods*, **2021**, 5, e2101002	12.8	4
490	Fast Li-ion Conductor of LiHoBr for Stable All-Solid-State Lithium-Sulfur Battery. *Nano Letters*, **2021**, 21, 9325-9331	11.5	9
489	Breaking the Scaling Relations of Oxygen Evolution Reaction on Amorphous NiFeP Nanostructures with Enhanced Activity for Overall Seawater Splitting. *Applied Catalysis B: Environmental*, **2021**, 120862	21.8	15
488	Opportunities for High-Entropy Materials in Rechargeable Batteries **2021**, 3, 160-170		21
487	Solid electrolyte interphase in water-in-salt electrolytes. *Science China Materials*, **2021**, 64, 1571-1579	7.1	3
486	Lithium-Metal Batteries: Polycationic Polymer Layer for Air-Stable and Dendrite-Free Li Metal Anodes in Carbonate Electrolytes (Adv. Mater. 12/2021). *Advanced Materials*, **2021**, 33, 2170087	24	2
485	In situ protection of a sulfur cathode and a lithium anode via adopting a fluorinated electrolyte for stable lithium-sulfur batteries. *Science China Materials*, **2021**, 64, 2127-2138	7.1	5
484	Ultrathin 2D Copper(I) 1,2,4-Triazolate Coordination Polymer Nanosheets for Efficient and Selective Gene Silencing and Photodynamic Therapy. *Advanced Materials*, **2021**, 33, e2100849	24	11
483	Realization of a High-Voltage and High-Rate Nickel-Rich NCM Cathode Material for LIBs by Co and Ti Dual Modification. *ACS Applied Materials & Interfaces*, **2021**, 13, 17707-17716	9.5	12
482	Sowing Silver Seeds within Patterned Ditches for Dendrite-Free Lithium Metal Batteries. *Advanced Science*, **2021**, 8, e2100684	13.6	21
481	Tailoring Electrolyte Solvation Chemistry toward an Inorganic-Rich Solid-Electrolyte Interphase at a Li Metal Anode. *ACS Energy Letters*, **2021**, 6, 2054-2063	20.1	27
480	Fluoride-Rich Solid-Electrolyte-Interface Enabling Stable Sodium Metal Batteries in High-Safe Electrolytes. *Advanced Functional Materials*, **2021**, 31, 2103522	15.6	19
479	A Supramolecular Complex of C60 with High-Density Active Sites as a Cathode for Lithium-Sulfur Batteries. *Angewandte Chemie*, **2021**, 133, 14434-14439	3.6	1
478	A Supramolecular Complex of C -S with High-Density Active Sites as a Cathode for Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 14313-14318	16.4	12

477	Boosting oxygen reduction activity and enhancing stability through structural transformation of layered lithium manganese oxide. *Nature Communications*, **2021**, 12, 3136	17.4	12
476	Air-Stable LixAl Foil as Free-Standing Electrode with Improved Electrochemical Ductility by Shot-Peening Treatment. *Advanced Functional Materials*, **2021**, 31, 2100978	15.6	3
475	Thermally Aged Li-Mn-O Cathode with Stabilized Hybrid Cation and Anion Redox. *Nano Letters*, **2021**, 21, 4176-4184	11.5	1
474	TiO Nanofiber-Modified Lithium Metal Composite Anode for Solid-State Lithium Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 28398-28404	9.5	8
473	The Failure Mechanism of Lithium-Sulfur Batteries under Lean-Ether-Electrolyte Conditions. *Energy Storage Materials*, **2021**, 38, 255-261	19.4	16
472	Ultrathin Conductive Interlayer with High-Density Antisite Defects for Advanced Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2021**, 31, 2001201	15.6	19
471	Recent Progress on Advanced Imaging Techniques for Lithium-Ion Batteries. *Advanced Energy Materials*, **2021**, 11, 2000806	21.8	38
470	Reducing the thickness of solid-state electrolyte membranes for high-energy lithium batteries. *Energy and Environmental Science*, **2021**, 14, 12-36	35.4	78
469	Mg-Pillared LiCoO : Towards Stable Cycling at 4.6 V. *Angewandte Chemie - International Edition*, **2021**, 60, 4682-4688	16.4	37
468	Experimental design and theoretical evaluation of nitrogen and phosphorus dual-doped hierarchical porous carbon for high-performance sodium-ion storage. *Journal of Materials Science and Technology*, **2021**, 76, 11-19	9.1	24
467	Mg-Pillared LiCoO2: Towards Stable Cycling at 4.6 V. *Angewandte Chemie*, **2021**, 133, 4732-4738	3.6	12
466	Boosting Pd-catalysis for electrochemical CO2 reduction to CO on Bi-Pd single atom alloy nanodendrites. *Applied Catalysis B: Environmental*, **2021**, 289, 119783	21.8	26
465	Bio-Derived Materials Achieving High Performance in Alkali Metal–Chalcogen Batteries. *Advanced Functional Materials*, **2021**, 31, 2008354	15.6	5
464	Composite Lithium Metal Anodes with Lithiophilic and Low-Tortuosity Scaffold Enabling Ultrahigh Currents and Capacities in Carbonate Electrolytes. *Advanced Functional Materials*, **2021**, 31, 2009961	15.6	15
463	Methods and Cost Estimation for the Synthesis of Nanosized Lithium Sulfide. *Small Structures*, **2021**, 2, 2000059	8.7	11
462	Molecular design of a multifunctional binder via grafting and crosslinking for high performance silicon anodes. *Journal of Materials Chemistry A*, **2021**, 9, 8416-8424	13	9
461	A flame-retardant polymer electrolyte for high performance lithium metal batteries with an expanded operation temperature. *Energy and Environmental Science*, **2021**, 14, 3510-3521	35.4	49
460	Ultrathin Conductive Interlayers: Ultrathin Conductive Interlayer with High-Density Antisite Defects for Advanced Lithium–Sulfur Batteries (Adv. Funct. Mater. 2/2021). *Advanced Functional Materials*, **2021**, 31, 2170012	15.6	

459	An effective dual-modification strategy to enhance the performance of LiNiCoMnO cathode for Li-ion batteries. *Nanoscale*, **2021**, 13, 4670-4677	7.7	7
458	Rationally Design a Sulfur Cathode with Solid-Phase Conversion Mechanism for High Cycle-Stable Li S Batteries. *Advanced Energy Materials*, **2021**, 11, 2003690	21.8	24
457	Elevated Lithium Ion Regulation by a Natural Silk Modified Separator for High-Performance Lithium Metal Anode. *Advanced Functional Materials*, **2021**, 31, 2100537	15.6	29
456	Polycationic Polymer Layer for Air-Stable and Dendrite-Free Li Metal Anodes in Carbonate Electrolytes. *Advanced Materials*, **2021**, 33, e2007428	24	32
455	A High Rate and Stable Hybrid Li/Na-Ion Battery Based on a Hydrated Molten Inorganic Salt Electrolyte. *Small*, **2021**, 17, e2101650	11	4
454	A Prelithiation Separator for Compensating the Initial Capacity Loss of Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 38194-38201	9.5	5
453	Improving the Stability of Non-Noble-Metal M-N-C Catalysts for Proton-Exchange-Membrane Fuel Cells through M-N Bond Length and Coordination Regulation. *Advanced Materials*, **2021**, 33, e2006613	24	19
452	Electrolyte Design Enabling a High-Safety and High-Performance Si Anode with a Tailored Electrode-Electrolyte Interphase. *Advanced Materials*, **2021**, 33, e2103178	24	30
451	Improving Na/Na Zr Si PO Interface via SnO /Sn Film for High-Performance Solid-State Sodium Metal Batteries.. *Small Methods*, **2021**, 5, e2100339	12.8	4
450	Two Birds with One Stone: Boosting Zinc-Ion Insertion/Extraction Kinetics and Suppressing Vanadium Dissolution of VO via La Incorporation Enable Advanced Zinc-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 38416-38424	9.5	15
449	Recent progress of asymmetric solid-state electrolytes for lithium/sodium-metal batteries. *EnergyChem*, **2021**, 3, 100058	36.9	10
448	A long-life and safe lithiated graphite-selenium cell with competitive gravimetric and volumetric energy densities. *Journal of Energy Chemistry*, **2021**, 60, 556-563	12	0
447	1,3-Dimethyl-2-imidazolidinone: an ideal electrolyte solvent for high-performance Li 2 battery with pretreated Li anode. *Science Bulletin*, **2021**,	10.6	1
446	Critical effects of electrolyte recipes for Li and Na metal batteries. *CheM*, **2021**, 7, 2312-2346	16.2	27
445	Tuning morphology, defects and functional group types in hard carbon via phosphorus doped for rapid sodium storage. *Carbon*, **2021**, 183, 415-427	10.4	4
444	Porous N, B co-doped carbon nanotubes as efficient metal-free electrocatalysts for ORR and Zn-air batteries. *Chemical Engineering Journal*, **2021**, 422, 130134	14.7	27
443	Modulating Zn deposition via ceramic-cellulose separator with interfacial polarization effect for durable zinc anode. *Nano Energy*, **2021**, 89, 106322	17.1	38
442	Construction of hierarchical CoS@NiO synergistic microstructure for high-performance asymmetric supercapacitor. *Journal of Colloid and Interface Science*, **2021**, 603, 440-449	9.3	20

441	Electron density modulation of MoP by rare earth metal as highly efficient electrocatalysts for pH-universal hydrogen evolution reaction. *Applied Catalysis B: Environmental*, **2021**, 299, 120657	21.8	8
440	Imaging Techniques: Recent Progress on Advanced Imaging Techniques for Lithium-Ion Batteries (Adv. Energy Mater. 2/2021). *Advanced Energy Materials*, **2021**, 11, 2170007	21.8	
439	Knocking down the kinetic barriers towards fast-charging and low-temperature sodium metal batteries. *Energy and Environmental Science*, **2021**, 14, 4936-4947	35.4	17
438	Inhibition of Manganese Dissolution in Mn2O3 Cathode with Controllable Ni2+ Incorporation for High-Performance Zinc Ion Battery. *Advanced Functional Materials*, **2021**, 31, 2009412	15.6	54
437	"First-Cycle Effect" of Trace LiS in a High-Performance Sulfur Cathode.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	2
436	Reactivating Dead Li by Shuttle Effect for High-Performance Anode-Free Li Metal Batteries. *Journal of the Electrochemical Society*, **2021**, 168, 120535	3.9	3
435	Interactions of sub-five-nanometer diameter colloidal palladium nanoparticles in solution investigated liquid cell transmission electron microscopy.. *RSC Advances*, **2020**, 10, 34781-34787	3.7	2
434	Two-Plateau Li-Se Chemistry for High Volumetric Capacity Se Cathodes. *Angewandte Chemie - International Edition*, **2020**, 59, 13908-13914	16.4	13
433	Two-Plateau Li-Se Chemistry for High Volumetric Capacity Se Cathodes. *Angewandte Chemie*, **2020**, 132, 14012-14018	3.6	4
432	Facile one-step vulcanization of copper foil towards stable Li metal anode. *Science China Materials*, **2020**, 63, 1663-1671	7.1	11
431	Electrochemical (bio) sensors go green. *Biosensors and Bioelectronics*, **2020**, 163, 112270	11.8	40
430	Stable Lithium Metal Anode Enabled by 3D Soft Host. *ACS Applied Materials & Interfaces*, **2020**, 12, 28337-28344	9.5	20
429	Enhanced Oxygen Evolution Reaction Activity by Encapsulating NiFe Alloy Nanoparticles in Nitrogen-Doped Carbon Nanofibers. *ACS Applied Materials & Interfaces*, **2020**, 12, 31503-31513	9.5	41
428	An electrochemical sensor for ifosfamide, acetaminophen, domperidone, and sumatriptan based on self-assembled MXene/MWCNT/chitosan nanocomposite thin film. *Mikrochimica Acta*, **2020**, 187, 402	5.8	32
427	In situ visualization by X-Ray computed tomography on sulfur stabilization and lithium polysulfides immobilization in S@HCS/MnO cathode. *Energy Storage Materials*, **2020**, 31, 164-171	19.4	5
426	Biaxial Strains Mediated Oxygen Reduction Electrocatalysis on Fenton Reaction Resistant L10-PtZn Fuel Cell Cathode. *Advanced Energy Materials*, **2020**, 10, 2000179	21.8	54
425	Rational Design of Hierarchically Structured CoS2@NCNTs from Metal□Organic Frameworks for Efficient Lithium/Sodium Storage Performance. *ACS Applied Energy Materials*, **2020**, 3, 6205-6214	6.1	14
424	Semi-Flooded Sulfur Cathode with Ultralean Absorbed Electrolyte in Li-S Battery. *Advanced Science*, **2020**, 7, 1903168	13.6	22

423	Guided-formation of a favorable interface for stabilizing Na metal solid-state batteries. *Journal of Materials Chemistry A*, **2020**, 8, 7828-7835	13	24
422	Electrolyte with boron nitride nanosheets as leveling agent towards dendrite-free lithium metal anodes. *Nano Energy*, **2020**, 72, 104725	17.1	42
421	Water-Stable Cathode for High Rate Na-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 15220-15227	9.5	9
420	Advanced Characterization Techniques for Interface in All-Solid-State Batteries. *Small Methods*, **2020**, 4, 2000111	12.8	22
419	Enhancing the Interfacial Ionic Transport via in Situ 3D Composite Polymer Electrolytes for Solid-State Lithium Batteries. *ACS Applied Energy Materials*, **2020**, 3, 7200-7207	6.1	6
418	A pretreatment method to form high-quality LiF-enriched solid-electrolyte interfaces for Li anode protection in Li□O2 batteries. *Journal of Materials Chemistry A*, **2020**, 8, 14198-14204	13	3
417	A □endrite-eating□separator for high-areal-capacity lithium-metal batteries. *Energy Storage Materials*, **2020**, 31, 181-186	19.4	42
416	A Facile Synthesis of Monodispersed Na3V2(PO4)3 Nanospheres Anchored on Cellular Graphene Oxide as a Self-supporting Cathode for High-Rate Sodium Storage. *ACS Applied Energy Materials*, **2020**, 3, 2867-2872	6.1	8
415	Nano-ordered structure regulation in delithiated Si anode triggered by homogeneous and stable Li-ion diffusion at the interface. *Nano Energy*, **2020**, 72, 104651	17.1	19
414	A novel flower-like metal-based oxides with cross-linked networks for rapid lithium-ion storage. *International Journal of Energy Research*, **2020**, 44, 4910-4918	4.5	3
413	Shaping the Contact between Li Metal Anode and Solid-State Electrolytes. *Advanced Functional Materials*, **2020**, 30, 1908701	15.6	23
412	Facile synthesis of sulfurized polyacrylonitrile composite as cathode for high-rate lithium-sulfur batteries. *Journal of Energy Chemistry*, **2020**, 49, 161-165	12	16
411	Synthesis of porous ZnxCo3-xO4 hollow nanoboxes derived from metal-organic frameworks for lithium and sodium storage. *Electrochimica Acta*, **2020**, 335, 135694	6.7	12
410	An all-solid-state lithium battery using the Li7La3Zr2O12 and Li6.7La3Zr1.7Ta0.3O12 ceramic enhanced polyethylene oxide electrolytes with superior electrochemical performance. *Ceramics International*, **2020**, 46, 11397-11405	5.1	24
409	Simultaneously suppressing lithium dendrite growth and Mn dissolution by integration of a safe inorganic separator in a LiMn2O4/Li battery. *Journal of Materials Chemistry A*, **2020**, 8, 3859-3864	13	14
408	Coordination induced electron redistribution to achieve highly reversible Li-ion insertion chemistry in metal-organic frameworks. *Chemical Communications*, **2020**, 56, 6424-6427	5.8	3
407	Bridging the immiscibility of an all-fluoride fire extinguishant with highly-fluorinated electrolytes toward safe sodium metal batteries. *Energy and Environmental Science*, **2020**, 13, 1788-1798	35.4	52
406	Vitalization of P2□Na2/3Ni1/3Mn2/3O2 at high-voltage cyclability via combined structural modulation for sodium-ion batteries. *Energy Storage Materials*, **2020**, 29, 182-189	19.4	28

405	Li2S-based anode-free full batteries with modified Cu current collector. *Energy Storage Materials*, **2020**, 30, 179-186	19.4	30
404	Revisiting the NaNiMnO Cathode: Oxygen Redox Chemistry and Oxygen Release Suppression. *ACS Central Science*, **2020**, 6, 232-240	16.8	66
403	Crystallization-induced ultrafast Na-ion diffusion in nickel hexacyanoferrate for high-performance sodium-ion batteries. *Nano Energy*, **2020**, 67, 104250	17.1	23
402	Realizing both high gravimetric and volumetric capacities in Li/3D carbon composite anode. *Nano Energy*, **2020**, 69, 104471	17.1	15
401	Building Safe Lithium-Ion Batteries for Electric Vehicles: A Review. *Electrochemical Energy Reviews*, **2020**, 3, 1-42	29.3	182
400	Reducing Interfacial Resistance by Na-SiO2 Composite Anode for NASICON-Based Solid-State Sodium Battery **2020**, 2, 127-132		36
399	Graphitic Carbon Nitride (g-C3N4): An Interface Enabler for Solid-State Lithium Metal Batteries. *Angewandte Chemie*, **2020**, 132, 3728-3733	3.6	15
398	Atomic-Level Fe-N-C Coupled with Fe C-Fe Nanocomposites in Carbon Matrixes as High-Efficiency Bifunctional Oxygen Catalysts. *Small*, **2020**, 16, e1906057	11	50
397	LaSrCoO4□@La0.5Sr0.5CoO3- core-shell hybrid as the cathode materials for solid oxide fuel cells. *Journal of Alloys and Compounds*, **2020**, 819, 152996	5.7	2
396	A Li□□□O Solid-State Electrolyte with High Ionic Conductivity and Good Capability to Protect Li Anode. *Advanced Functional Materials*, **2020**, 30, 1905949	15.6	31
395	Graphitic Carbon Nitride (g-C N): An Interface Enabler for Solid-State Lithium Metal Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 3699-3704	16.4	137
394	Nanocrystalline Li-Al-Mn-Si Foil as Reversible Li Host: Electronic Percolation and Electrochemical Cycling Stability. *Nano Letters*, **2020**, 20, 896-904	11.5	17
393	Lithium metal electrode protected by stiff and tough self-compacting separator. *Nano Energy*, **2020** , 69, 104399	17.1	14
392	Embedding a percolated dual-conductive skeleton with high sodiophilicity toward stable sodium metal anodes. *Nano Energy*, **2020**, 69, 104387	17.1	44
391	Phase-transformed Mo4P3 nanoparticles as efficient catalysts towards lithium polysulfide conversion for lithium□sulfur battery. *Electrochimica Acta*, **2020**, 330, 135310	6.7	27
390	High sulfur-containing organosulfur polymer composite cathode embedded by monoclinic S for lithium sulfur batteries. *Energy Storage Materials*, **2020**, 26, 570-576	19.4	30
389	Is graphite lithiophobic or lithiophilic?. *National Science Review*, **2020**, 7, 1208-1217	10.8	66
388	Mechanochemical reactions of MnO2 and graphite nanosheets as a durable zinc ion battery cathode. *Applied Surface Science*, **2020**, 534, 147630	6.7	45

387	Hydrochloric acid corrosion induced bifunctional free-standing NiFe hydroxide nanosheets towards high-performance alkaline seawater splitting. *Nanoscale*, **2020**, 12, 21743-21749	7.7	17
386	Ultrasonic Scanning to Observe Wetting and Unwetting in Li-Ion Pouch Cells. *Joule*, **2020**, 4, 2017-2029	27.8	54
385	Core@shell Sb@Sb2O3 nanoparticles anchored on 3D nitrogen-doped carbon nanosheets as advanced anode materials for Li-ion batteries. *Nanoscale Advances*, **2020**, 2, 5578-5583	5.1	7
384	A Multifunctional Inorganic Composite Separator for Stable High-Safety Lithium Sulfur Batteries. *ACS Applied Energy Materials*, **2020**, 3, 10139-10146	6.1	3
383	Dual redox-active copper hexacyanoferrate nanosheets as cathode materials for advanced sodium-ion batteries. *Energy Storage Materials*, **2020**, 33, 432-441	19.4	10
382	Bifunctional Atomically Dispersed Mo-N/C Nanosheets Boost Lithium Sulfide Deposition/Decomposition for Stable Lithium-Sulfur Batteries. *ACS Nano*, **2020**, 14, 10115-10126	16.7	52
381	Li6.7La3Zr1.7Ta0.3O12 Reinforced PEO/PVDF-HFP Based Composite Solid Electrolyte for All Solid-State Lithium Metal Battery. *Energy & Fuels*, **2020**, 34, 15011-15018	4.1	6
380	Air-stable means more: designing air-defendable lithium metals for safe and stable batteries. *Materials Horizons*, **2020**, 7, 2619-2634	14.4	13
379	Oxygen Reduction: Biaxial Strains Mediated Oxygen Reduction Electrocatalysis on Fenton Reaction Resistant L10-PtZn Fuel Cell Cathode (Adv. Energy Mater. 29/2020). *Advanced Energy Materials*, **2020**, 10, 2070124	21.8	2
378	A writable lithium metal ink. *Science China Chemistry*, **2020**, 63, 1483-1489	7.9	30
377	N/O/P-rich three-dimensional carbon network for fast sodium storage. *Carbon*, **2020**, 170, 225-235	10.4	47
376	Constructing Stable Anodic Interphase for Quasi-Solid-State Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 39335-39341	9.5	6
375	Enabling high-areal-capacity all-solid-state lithium-metal batteries by tri-layer electrolyte architectures. *Energy Storage Materials*, **2020**, 24, 714-718	19.4	39
374	High performance cathode material based on Na3V2(PO4)2F3 and Na3V2(PO4)3 for sodium-ion batteries. *Energy Storage Materials*, **2020**, 25, 724-730	19.4	46
373	MOF-derived hollow Co(Ni)Se2/N-doped carbon composite material for preparation of sodium ion battery anode. *Ceramics International*, **2020**, 46, 4532-4542	5.1	17
372	Ultra-thin metal-organic framework nanoribbons. *National Science Review*, **2020**, 7, 46-52	10.8	18
371	Stabilizing Na3Zr2Si2PO12/Na Interfacial Performance by Introducing a Clean and Na-Deficient Surface. *Chemistry of Materials*, **2020**, 32, 3970-3979	9.6	25
370	Multiple Active Sites: Lithium Storage Mechanism of Cu-TCNQ as an Anode Material for Lithium-Ion Batteries. *Chemistry - an Asian Journal*, **2019**, 14, 4289-4295	4.5	16

369	Phosphorus-doped porous biomass carbon with ultra-stable performance in sodium storage and lithium storage. *Electrochimica Acta*, **2019**, 321, 134698	6.7	23
368	High-performance low-temperature solid oxide fuel cells prepared by sol impregnation. *Journal of Alloys and Compounds*, **2019**, 810, 151936	5.7	3
367	Immobilizing an organic electrode material through □nteraction for high-performance Li-organic batteries. *Journal of Materials Chemistry A*, **2019**, 7, 22398-22404	13	13
366	Lithium-Graphite Paste: An Interface Compatible Anode for Solid-State Batteries. *Advanced Materials*, **2019**, 31, e1807243	24	150
365	Toward a Stable Sodium Metal Anode in Carbonate Electrolyte: A Compact, Inorganic Alloy Interface. *Journal of Physical Chemistry Letters*, **2019**, 10, 707-714	6.4	80
364	A Li□2 battery cathode with vertical mass/charge transfer pathways. *Journal of Materials Chemistry A*, **2019**, 7, 3000-3005	13	7
363	Ultrahigh sulfur loading in ZnS1- /rGO through in situ oxidation-refilling route for high-performance Li S batteries. *Journal of Power Sources*, **2019**, 414, 453-459	8.9	21
362	Enhancement of photocatalytic H2 production by metal complex electrostatic adsorption on TiO2 (B) nanosheets. *Journal of Materials Chemistry A*, **2019**, 7, 3797-3804	13	9
361	Mesoporous Pd@Pt core□shell nanoparticles supported on multi-walled carbon nanotubes as a sensing platform: application in simultaneous electrochemical detection of anticancer drugs doxorubicin and dasatinib. *Analytical Methods*, **2019**, 11, 443-453	3.2	25
360	Sustainable cycling enabled by a high-concentration electrolyte for lithium-organic batteries. *Chemical Communications*, **2019**, 55, 608-611	5.8	19
359	Confining Silicon Nanoparticles within Freestanding Multichannel Carbon Fibers for High-Performance Li-Ion Batteries. *ACS Applied Energy Materials*, **2019**, 2, 5214-5218	6.1	12
358	Intrinsic Effects of Ruddlesden-Popper-Based Bifunctional Catalysts for High-Temperature Oxygen Reduction and Evolution. *Advanced Energy Materials*, **2019**, 9, 1901573	21.8	24
357	Enabling high rate performance of Ni-rich layered oxide cathode by uniform titanium doping. *Materials Today Energy*, **2019**, 13, 145-151	7	42
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