Li-Jun Wan

List of Publications by Year in Descending Order

640 papers	55,198 citations	114 h-index	218 g-index
690 ext. papers	61,238 ext. citations	9.1 avg, IF	8.04 L-index

#	Paper	IF	Citations
640	Coordination-Assisted Precise Construction of Metal Oxide Nanofilms for High-Performance Solid-State Batteries.. *Journal of the American Chemical Society*, **2022**,	16.4	3
639	Selective Extraction of Transition Metals from Spent LiNixCoyMn1-x-yO2 Cathode via Regulation of Coordination Environment.. *Angewandte Chemie - International Edition*, **2022**,	16.4	5
638	Advancing to 4.6 V Review and Prospect in Developing High-Energy-Density LiCoO Cathode for Lithium-Ion Batteries.. *Small Methods*, **2022**, e2200148	12.8	7
637	The Functions and Applications of Fluorinated Interface Engineering in Li-Based Secondary Batteries. *Small Science*, **2021**, 1, 2100066		3
636	Insights into the nitride-regulated processes at the electrolyte/electrode interface in quasi-solid-state lithium metal batteries. *Journal of Energy Chemistry*, **2021**, 67, 780-780	12	1
635	Pd Porphyrin Cofacial Dimer Formed via CO2 Binding: An in Situ Electrochemistry Scanning Tunneling Microscopy Study. *Journal of Physical Chemistry C*, **2021**, 125, 24915-24919	3.8	4
634	In Situ/Operando Advances of Electrode Processes in Solid-state Lithium Batteries. *Acta Chimica Sinica*, **2021**, 79, 1197	3.3	0
633	Cooperative Shielding of Bi-Electrodes via In Situ Amorphous Electrode-Electrolyte Interphases for Practical High-Energy Lithium-Metal Batteries. *Journal of the American Chemical Society*, **2021**, 143, 16768-16776	16.4	16
632	2021 Emerging Investigator Issue of Science China Chemistry. *Science China Chemistry*, **2021**, 64, 1811	7.9	0
631	Micromechanism in All-Solid-State Alloy-Metal Batteries: Regulating Homogeneous Lithium Precipitation and Flexible Solid Electrolyte Interphase Evolution. *Journal of the American Chemical Society*, **2021**, 143, 839-848	16.4	28
630	Recent Advances on Nonprecious-Metal-Based Bifunctional Oxygen Electrocatalysts for Zinc–Air Batteries. *Energy & Fuels*, **2021**, 35, 6380-6401	4.1	20
629	TiN nanocrystal anchored on N-doped graphene as effective sulfur hosts for high-performance lithium-sulfur batteries. *Journal of Energy Chemistry*, **2021**, 54, 16-22	12	18
628	In-situ nanoscale insights into the evolution of solid electrolyte interphase shells: revealing interfacial degradation in lithium metal batteries. *Science China Chemistry*, **2021**, 64, 734-738	7.9	12
627	Synthesis of Covalent Organic Framework Films at Interfaces. *Bulletin of the Chemical Society of Japan*, **2021**, 94, 1090-1098	5.1	15
626	Bridging Interparticle Li Conduction in a Soft Ceramic Oxide Electrolyte. *Journal of the American Chemical Society*, **2021**, 143, 5717-5726	16.4	44
625	A Covalent Organic Framework Film for Three-State Near-Infrared Electrochromism and a Molecular Logic Gate. *Angewandte Chemie - International Edition*, **2021**, 60, 12498-12503	16.4	14
624	Progress in the sustainable recycling of spent lithium-ion batteries. *SusMat*, **2021**, 1, 241-254		35

623	Layered oxides with solid-solution reaction for high voltage potassium-ion batteries cathode. *Chemical Engineering Journal*, **2021**, 412, 128735	14.7	6
622	Molecular Linking Stabilizes Bi Nanoparticles for Efficient Electrochemical Carbon Dioxide Reduction. *Journal of Physical Chemistry C*, **2021**, 125, 12699-12706	3.8	1
621	Interfacial Strain Engineering in Wide-Bandgap GeS Thin Films for Photovoltaics. *Journal of the American Chemical Society*, **2021**,	16.4	9
620	Charge Rate-Dependent Decomposition Mechanism of Toroidal Li2O2 in Li-O2 Batteries. *Chinese Journal of Chemistry*, **2021**, 39, 2668-2672	4.9	0
619	Manipulating Particle Chemistry for Hollow Carbon-based Nanospheres: Synthesis Strategies, Mechanistic Insights, and Electrochemical Applications. *Accounts of Chemical Research*, **2021**, 54, 221-231	24.3	10
618	Hydrolysis of Corncob Hemicellulose by Solid Acid Sulfated Zirconia and Its Evaluation in Xylitol Production. *Applied Biochemistry and Biotechnology*, **2021**, 193, 205-217	3.2	5
617	Increased residual lithium compounds guided design for green recycling of spent lithium-ion cathodes. *Energy and Environmental Science*, **2021**, 14, 1461-1468	35.4	30
616	Insights into electrocatalysis by scanning tunnelling microscopy. *Chemical Society Reviews*, **2021**, 50, 5833-5849	38.9	13
615	The 2021 battery technology roadmap. *Journal Physics D: Applied Physics*, **2021**, 54, 183001	3	63
614	A General Synthesis Strategy for Hollow Metal Oxide Microspheres Enabled by Gel-Assisted Precipitation. *Angewandte Chemie*, **2021**, 133, 21547-21553	3.6	
613	A General Synthesis Strategy for Hollow Metal Oxide Microspheres Enabled by Gel-Assisted Precipitation. *Angewandte Chemie - International Edition*, **2021**, 60, 21377-21383	16.4	1
612	Insights into evolution processes and degradation mechanisms of anion-tunable interfacial stability in all-solid-state lithium-sulfur batteries. *Energy Storage Materials*, **2021**, 41, 642-649	19.4	2
611	Hollow-Structured Electrode Materials: Self-Templated Synthesis and Their Potential in Secondary Batteries. *ChemNanoMat*, **2020**, 6, 1298-1314	3.5	3
610	Regulating the charge diffusion of two-dimensional cobalt iron hydroxide/graphene composites for high-rate water oxidation. *Journal of Materials Chemistry A*, **2020**, 8, 11573-11581	13	9
609	Dynamic Visualization of Cathode/Electrolyte Evolution in Quasi-Solid-State Lithium Batteries. *Advanced Energy Materials*, **2020**, 10, 2000465	21.8	13
608	Hollow carbon nanospheres: syntheses and applications for post lithium-ion batteries. *Materials Chemistry Frontiers*, **2020**, 4, 2283-2306	7.8	9
607	Lattice-confined Ru clusters for hydrogen oxidation reaction with high CO-tolerance. *Science China Chemistry*, **2020**, 63, 1169-1170	7.9	1
606	In Situ Scanning Tunneling Microscopy of Cobalt-Phthalocyanine-Catalyzed CO2 Reduction Reaction. *Angewandte Chemie*, **2020**, 132, 16232-16237	3.6	4

605	In Situ Scanning Tunneling Microscopy of Cobalt-Phthalocyanine-Catalyzed CO Reduction Reaction. *Angewandte Chemie - International Edition*, **2020**, 59, 16098-16103	16.4	28
604	Tunable structure and dynamics of solid electrolyte interphase at lithium metal anode. *Nano Energy* , **2020**, 75, 104967	17.1	27
603	High-Performance Cathode of Sodium-Ion Batteries Enabled by a Potassium-Containing Framework of KMnFeTiO. *ACS Applied Materials & Interfaces*, **2020**, 12, 15313-15319	9.5	11
602	Metastable Rock Salt Oxide-Mediated Synthesis of High-Density Dual-Protected M@NC for Long-Life Rechargeable Zinc-Air Batteries with Record Power Density. *Journal of the American Chemical Society*, **2020**, 142, 7116-7127	16.4	78
601	Interfacial Evolution of Lithium Dendrites and Their Solid Electrolyte Interphase Shells of Quasi-Solid-State Lithium-Metal Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 18120-18125	16.4	24
600	Interfacial Evolution of Lithium Dendrites and Their Solid Electrolyte Interphase Shells of Quasi-Solid-State Lithium-Metal Batteries. *Angewandte Chemie*, **2020**, 132, 18277-18282	3.6	4
599	A Flexible Solid Electrolyte with Multilayer Structure for Sodium Metal Batteries. *Advanced Energy Materials*, **2020**, 10, 1903966	21.8	47
598	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. *Angewandte Chemie*, **2020**, 132, 6647-6651	3.6	17
597	Single-Molecule Conductance through an Isoelectronic B-N Substituted Phenanthrene Junction. *Journal of the American Chemical Society*, **2020**, 142, 8068-8073	16.4	18
596	Progress in the Mechanisms and Materials for CO2 Electroreduction toward C2+ Products. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2020**, 36, 1906085-0	3.8	20
595	Stabilizing Polymer□lithium Interface in a Rechargeable Solid Battery. *Advanced Functional Materials*, **2020**, 30, 1908047	15.6	30
594	A rechargeable aqueous aluminum-sulfur battery through acid activation in water-in-salt electrolyte. *Chemical Communications*, **2020**, 56, 2023-2026	5.8	35
593	A Black Phosphorus□raphite Composite Anode for Li-/Na-/K-Ion Batteries. *Angewandte Chemie*, **2020**, 132, 2338-2342	3.6	13
592	A Black Phosphorus-Graphite Composite Anode for Li-/Na-/K-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 2318-2322	16.4	54
591	Advanced transition metal/nitrogen/carbon-based electrocatalysts for fuel cell applications. *Science China Chemistry*, **2020**, 63, 1517-1542	7.9	26
590	Spherical Mesoporous Metal Oxides with Tunable Orientation Enabled by Growth Kinetics Control. *Journal of the American Chemical Society*, **2020**, 142, 17897-17902	16.4	4
589	Redistribution of Li-ions using covalent organic frameworks towards dendrite-free lithium anodes: a mechanism based on a Galton Board. *Science China Chemistry*, **2020**, 63, 1306-1314	7.9	19
588	Dynamic Evolution of a Cathode Interphase Layer at the Surface of LiNiCoMnO in Quasi-Solid-State Lithium Batteries. *Journal of the American Chemical Society*, **2020**, 142, 20752-20762	16.4	24

587	Chemoselective On-surface Homocoupling of Terminal Alkynes Catalyzed by Exogenous Cupric Ions. *Chemistry - an Asian Journal*, **2020**, 15, 2627-2630	4.5	3
586	On-Surface Growth of Single-Layered Homochiral 2D Covalent Organic Frameworks by Steric Hindrance Strategy. *Journal of the American Chemical Society*, **2020**, 142, 14350-14356	16.4	16
585	In Situ Realization of Water-Mediated Interfacial Processes at Nanoscale in Aprotic Li–O2 Batteries. *Advanced Energy Materials*, **2020**, 10, 2002339	21.8	6
584	Rechargeable Aluminium-Sulfur Battery with Improved Electrochemical Performance by Cobalt-Containing Electrocatalyst. *Angewandte Chemie - International Edition*, **2020**, 59, 22963-22967	16.4	15
583	Rechargeable Aluminium–Sulfur Battery with Improved Electrochemical Performance by Cobalt-Containing Electrocatalyst. *Angewandte Chemie*, **2020**, 132, 23163-23167	3.6	5
582	Surface Mechanism of Catalytic Electrodes in Lithium-Oxygen Batteries: How Nanostructures Mediate the Interfacial Reactions. *Journal of the American Chemical Society*, **2020**, 142, 16007-16015	16.4	22
581	Steering elementary steps towards efficient alkaline hydrogen evolution via size-dependent Ni/NiO nanoscale heterosurfaces. *National Science Review*, **2020**, 7, 27-36	10.8	71
580	Building an Air Stable and Lithium Deposition Regulable Garnet Interface from Moderate-Temperature Conversion Chemistry. *Angewandte Chemie - International Edition*, **2020**, 59, 12069-12075	16.4	68
579	Solid-Solution-Based Metal Alloy Phase for Highly Reversible Lithium Metal Anode. *Journal of the American Chemical Society*, **2020**, 142, 8818-8826	16.4	86
578	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 6585-6589	16.4	47
577	Hetero-coupling of a carbonate hydroxide and sulfide for efficient and robust water oxidation. *Journal of Materials Chemistry A*, **2019**, 7, 21959-21965	13	11
576	Designing solid-state interfaces on lithium-metal anodes: a review. *Science China Chemistry*, **2019**, 62, 1286-1299	7.9	61
575	Recent developments in electrode materials for potassium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 4334-4352	13	155
574	Recent progress in the application of in situ atomic force microscopy for rechargeable batteries. *Current Opinion in Electrochemistry*, **2019**, 17, 134-142	7.2	11
573	Engineering Janus Interfaces of Ceramic Electrolyte via Distinct Functional Polymers for Stable High-Voltage Li-Metal Batteries. *Journal of the American Chemical Society*, **2019**, 141, 9165-9169	16.4	161
572	Tri-Stable Structural Switching in 2D Molecular Assembly at the Liquid/Solid Interface Triggered by External Electric Field. *ACS Nano*, **2019**, 13, 6751-6759	16.7	8
571	Direct tracking of the polysulfide shuttling and interfacial evolution in all-solid-state lithium–sulfur batteries: a degradation mechanism study. *Energy and Environmental Science*, **2019**, 12, 2496-2506	35.4	94
570	Crystallization-induced self-hollowing of molybdenum sulfide nanoparticles and their potential in sodium ion batteries. *Chemical Communications*, **2019**, 55, 5894-5897	5.8	6

569	Precise Surface Engineering of Cathode Materials for Improved Stability of Lithium-Ion Batteries. *Small*, **2019**, 15, e1901019	11	31
568	Molecular Evidence for the Catalytic Process of Cobalt Porphyrin Catalyzed Oxygen Evolution Reaction in Alkaline Solution. *Journal of the American Chemical Society*, **2019**, 141, 7665-7669	16.4	35
567	Synergy of Black Phosphorus-Graphite-Polyaniline-Based Ternary Composites for Stable High Reversible Capacity Na-Ion Battery Anodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 16656-16661	9.5	35
566	Elucidating the interfacial evolution and anisotropic dynamics on silicon anodes in lithium-ion batteries. *Nano Energy*, **2019**, 61, 304-310	17.1	22
565	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. *Nature Communications*, **2019**, 10, 1278	17.4	368
564	High-resolution imaging of graphene by tip-enhanced coherent anti-Stokes Raman scattering. *Journal of Innovative Optical Health Sciences*, **2019**, 12, 1841003	1.2	2
563	Phase Control on Surface for the Stabilization of High Energy Cathode Materials of Lithium Ion Batteries. *Journal of the American Chemical Society*, **2019**, 141, 4900-4907	16.4	54
562	Revealing the Surface Effect of the Soluble Catalyst on Oxygen Reduction/Evolution in Li-O Batteries. *Journal of the American Chemical Society*, **2019**, 141, 6900-6905	16.4	36
561	Structural engineering of SnS2/Graphene nanocomposite for high-performance K-ion battery anode. *Nano Energy*, **2019**, 60, 912-918	17.1	71
560	Se-Doping Activates FeOOH for Cost-Effective and Efficient Electrochemical Water Oxidation. *Journal of the American Chemical Society*, **2019**, 141, 7005-7013	16.4	279
559	Extended Electrochemical Window of Solid Electrolytes via Heterogeneous Multilayered Structure for High-Voltage Lithium Metal Batteries. *Advanced Materials*, **2019**, 31, e1807789	24	205
558	Controlling the reaction kinetics in solution for uniform nanoshells of metal sulfides with sub-nanometer accuracy. *Science Bulletin*, **2019**, 64, 232-235	10.6	2
557	Ultra-thin solid electrolyte interphase evolution and wrinkling processes in molybdenum disulfide-based lithium-ion batteries. *Nature Communications*, **2019**, 10, 3265	17.4	39
556	2D Co-crystallization of molecular homologues promoted by size complementarity of the alkyl chains at the liquid/solid interface. *Physical Chemistry Chemical Physics*, **2019**, 21, 17846-17851	3.6	1
555	Interfacial design for lithium–sulfur batteries: From liquid to solid. *EnergyChem*, **2019**, 1, 100002	36.9	80
554	An Ordered Ni -Ring Superstructure Enables a Highly Stable Sodium Oxide Cathode. *Advanced Materials*, **2019**, 31, e1903483	24	42
553	Cobalt in Nitrogen-Doped Graphene as Single-Atom Catalyst for High-Sulfur Content Lithium-Sulfur Batteries. *Journal of the American Chemical Society*, **2019**, 141, 3977-3985	16.4	626
552	Oriented Two-Dimensional Covalent Organic Framework Films for Near-Infrared Electrochromic Application. *Journal of the American Chemical Society*, **2019**, 141, 19831-19838	16.4	68

551	Carbonized-MOF as a Sulfur Host for Aluminum–Sulfur Batteries with Enhanced Capacity and Cycling Life. *Advanced Functional Materials*, **2019**, 29, 1807676	15.6	59
550	Phase-Controlled Synthesis of 1T-MoSe2/NiSe Heterostructure Nanowire Arrays via Electronic Injection for Synergistically Enhanced Hydrogen Evolution. *Small Methods*, **2019**, 3, 1800317	12.8	41
549	Air-Stable In-Plane Anisotropic GeSe for Highly Polarization-Sensitive Photodetection in Short Wave Region. *Journal of the American Chemical Society*, **2018**, 140, 4150-4156	16.4	125
548	Controllable synthesis of carbon encapsulated iron phosphide nanoparticles for the chemoselective hydrogenation of aromatic nitroarenes to anilines. *Inorganic Chemistry Frontiers*, **2018**, 5, 1094-1099	6.8	19
547	Construction of uniform transition-metal phosphate nanoshells and their potential for improving Li-ion battery performance. *Journal of Materials Chemistry A*, **2018**, 6, 8992-8999	13	21
546	Potential- and concentration-dependent self-assembly structures at solid/liquid interfaces. *Nanoscale*, **2018**, 10, 3438-3443	7.7	8
545	A Flexible Solid Electrolyte Interphase Layer for Long-Life Lithium Metal Anodes. *Angewandte Chemie*, **2018**, 130, 1521-1525	3.6	58
544	High-Capacity Cathode Material with High Voltage for Li-Ion Batteries. *Advanced Materials*, **2018**, 30, 1705575	24	256
543	Uniform Lithium Nucleation/Growth Induced by Lightweight Nitrogen-Doped Graphitic Carbon Foams for High-Performance Lithium Metal Anodes. *Advanced Materials*, **2018**, 30, 1706216	24	315
542	Innentitelbild: A Flexible Solid Electrolyte Interphase Layer for Long-Life Lithium Metal Anodes (Angew. Chem. 6/2018). *Angewandte Chemie*, **2018**, 130, 1436-1436	3.6	2
541	Direct insights into the electrochemical processes at anode/electrolyte interfaces in magnesium-sulfur batteries. *Nano Energy*, **2018**, 49, 453-459	17.1	30
540	Surface Zn doped LiMnO for an improved high temperature performance. *Chemical Communications*, **2018**, 54, 5326-5329	5.8	31
539	Ladderlike carbon nanoarrays on 3D conducting skeletons enable uniform lithium nucleation for stable lithium metal anodes. *Chemical Communications*, **2018**, 54, 5330-5333	5.8	32
538	Facile synthesis of hollow Ti2Nb10O29 microspheres for high-rate anode of Li-ion batteries. *Science China Chemistry*, **2018**, 61, 670-676	7.9	18
537	Degradation Chemistry and Stabilization of Exfoliated Few-Layer Black Phosphorus in Water. *Journal of the American Chemical Society*, **2018**, 140, 7561-7567	16.4	185
536	Construction of Uniform Cobalt-Based Nanoshells and Its Potential for Improving Li-Ion Battery Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 22896-22901	9.5	12
535	Structural Engineering of Multishelled Hollow Carbon Nanostructures for High-Performance Na-Ion Battery Anode. *Advanced Energy Materials*, **2018**, 8, 1800855	21.8	78
534	Controlling the Reaction of Nanoparticles for Hollow Metal Oxide Nanostructures. *Journal of the American Chemical Society*, **2018**, 140, 9070-9073	16.4	53

533	Heterogeneous nucleation and growth of highly crystalline imine-linked covalent organic frameworks. *Chemical Communications*, **2018**, 54, 5976-5979	5.8	39
532	Construction of uniform ZrO nanoshells by buffer solutions. *Dalton Transactions*, **2018**, 47, 12843-12846	4.3	5
531	Polar Solvent Induced Lattice Distortion of Cubic CsPbI Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. *Journal of the American Chemical Society*, **2018**, 140, 11705-11715	16.4	154
530	Interfacial Mechanism in Lithium-Sulfur Batteries: How Salts Mediate the Structure Evolution and Dynamics. *Journal of the American Chemical Society*, **2018**, 140, 8147-8155	16.4	91
529	Robust Expandable Carbon Nanotube Scaffold for Ultrahigh-Capacity Lithium-Metal Anodes. *Advanced Materials*, **2018**, 30, e1800884	24	132
528	From biological enzyme to single atomic Fe-N-C electrocatalyst for efficient oxygen reduction. *Chemical Communications*, **2018**, 54, 1307-1310	5.8	41
527	Dendrite-Free Li-Metal Battery Enabled by a Thin Asymmetric Solid Electrolyte with Engineered Layers. *Journal of the American Chemical Society*, **2018**, 140, 82-85	16.4	299
526	A Flexible Solid Electrolyte Interphase Layer for Long-Life Lithium Metal Anodes. *Angewandte Chemie - International Edition*, **2018**, 57, 1505-1509	16.4	438
525	In-situ plasticized polymer electrolyte with double-network for flexible solid-state lithium-metal batteries. *Energy Storage Materials*, **2018**, 10, 85-91	19.4	165
524	Self-assembly of an oligo(-phenylenevinylene)-based molecule on an HOPG surface: insights from multi-scale simulation and STM observation.. *RSC Advances*, **2018**, 8, 31868-31873	3.7	3
523	Uniform Nucleation of Lithium in 3D Current Collectors via Bromide Intermediates for Stable Cycling Lithium Metal Batteries. *Journal of the American Chemical Society*, **2018**, 140, 18051-18057	16.4	96
522	Molecular Quadripod as a Noncovalent Interfacial Coupling Reagent for Forming Immobilized Coordination Assemblies. *Journal of the American Chemical Society*, **2018**, 140, 12337-12340	16.4	7
521	Self-supported metal sulphide nanocrystals-assembled nanosheets on carbon paper as efficient counter electrodes for quantum-dot-sensitized solar cells. *Science China Chemistry*, **2018**, 61, 1338-1344	7.9	6
520	Confined Synthesis of Two-Dimensional Covalent Organic Framework Thin Films within Superspreading Water Layer. *Journal of the American Chemical Society*, **2018**, 140, 12152-12158	16.4	131
519	Engineering Hollow Carbon Architecture for High-Performance K-Ion Battery Anode. *Journal of the American Chemical Society*, **2018**, 140, 7127-7134	16.4	186
518	Mitigating Interfacial Potential Drop of Cathode-Solid Electrolyte via Ionic Conductor Layer To Enhance Interface Dynamics for Solid Batteries. *Journal of the American Chemical Society*, **2018**, 140, 6767-6770	16.4	137
517	Biodegradable, Hydrogen Peroxide, and Glutathione Dual Responsive Nanoparticles for Potential Programmable Paclitaxel Release. *Journal of the American Chemical Society*, **2018**, 140, 7373-7376	16.4	129
516	Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface. *CheM*, **2018**, 4, 1685-1695	16.2	45

515	Directed assembly of fullerene on modified Au(111) electrodes. *Chemical Communications*, **2018**, 54, 8052-8055	5.8	5
514	A Two-Dimensional Hole-Transporting Material for High-Performance Perovskite Solar Cells with 20 % Average Efficiency. *Angewandte Chemie*, **2018**, 130, 11125-11131	3.6	15
513	A Two-Dimensional Hole-Transporting Material for High-Performance Perovskite Solar Cells with 20 % Average Efficiency. *Angewandte Chemie - International Edition*, **2018**, 57, 10959-10965	16.4	95
512	Research progress regarding Si-based anode materials towards practical application in high energy density Li-ion batteries. *Materials Chemistry Frontiers*, **2017**, 1, 1691-1708	7.8	193
511	Controlled formation of uniform nanoshells of manganese oxide and their potential in lithium ion batteries. *Chemical Communications*, **2017**, 53, 2846-2849	5.8	13
510	Oriented Covalent Organic Framework Film on Graphene for Robust Ambipolar Vertical Organic Field-Effect Transistor. *Chemistry of Materials*, **2017**, 29, 4367-4374	9.6	113
509	Tuning the branches and composition of PtCu nanodendrites through underpotential deposition of Cu towards advanced electrocatalytic activity. *Journal of Materials Chemistry A*, **2017**, 5, 9014-9021	13	47
508	Development of simulation approach for two-dimensional chiral molecular self-assembly driven by hydrogen bond at the liquid/solid interface. *Surface Science*, **2017**, 663, 71-80	1.8	3
507	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni3B for Efficient Water Oxidation. *Angewandte Chemie*, **2017**, 129, 6672-6677	3.6	28
506	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni B for Efficient Water Oxidation. *Angewandte Chemie - International Edition*, **2017**, 56, 6572-6577	16.4	206
505	Synergism of Al-containing solid electrolyte interphase layer and Al-based colloidal particles for stable lithium anode. *Nano Energy*, **2017**, 36, 411-417	17.1	143
504	Improving the structural stability of Li-rich cathode materials via reservation of cations in the Li-slab for Li-ion batteries. *Nano Research*, **2017**, 10, 4201-4209	10	43
503	Investigation of Physical and Electronic Properties of GeSe for Photovoltaic Applications. *Advanced Electronic Materials*, **2017**, 3, 1700141	6.4	51
502	Designing Air-Stable O3-Type Cathode Materials by Combined Structure Modulation for Na-Ion Batteries. *Journal of the American Chemical Society*, **2017**, 139, 8440-8443	16.4	219
501	Electronic and Morphological Dual Modulation of Cobalt Carbonate Hydroxides by Mn Doping toward Highly Efficient and Stable Bifunctional Electrocatalysts for Overall Water Splitting. *Journal of the American Chemical Society*, **2017**, 139, 8320-8328	16.4	546
500	Direct Visualization of Nucleation and Growth Processes of Solid Electrolyte Interphase Film Using in Situ Atomic Force Microscopy. *ACS Applied Materials & Interfaces*, **2017**, 9, 22063-22067	9.5	31
499	Stable Li Plating/Stripping Electrochemistry Realized by a Hybrid Li Reservoir in Spherical Carbon Granules with 3D Conducting Skeletons. *Journal of the American Chemical Society*, **2017**, 139, 5916-5922	16.4	329
498	Facile Synthesis of Mo2C Nanocrystals Embedded in Nanoporous Carbon Network for Efficient Hydrogen Evolution. *Chinese Journal of Chemistry*, **2017**, 35, 911-917	4.9	8

497	Three-dimensional nanostructured electrodes for efficient quantum-dot-sensitized solar cells. *Nano Energy*, **2017**, 32, 130-156	17.1	56
496	GeSe Thin-Film Solar Cells Fabricated by Self-Regulated Rapid Thermal Sublimation. *Journal of the American Chemical Society*, **2017**, 139, 958-965	16.4	167
495	Free-Standing Hollow Carbon Fibers as High-Capacity Containers for Stable Lithium Metal Anodes. *Joule*, **2017**, 1, 563-575	27.8	243
494	Controlling the Compositional Chemistry in Single Nanoparticles for Functional Hollow Carbon Nanospheres. *Journal of the American Chemical Society*, **2017**, 139, 13492-13498	16.4	202
493	High-Temperature Formation of a Functional Film at the Cathode/Electrolyte Interface in Lithium-Sulfur Batteries: An In Situ AFM Study. *Angewandte Chemie - International Edition*, **2017**, 56, 14433-14437	16.4	33
492	Switching the surface homochiral assembly by surface host-guest chemistry. *Chemical Communications*, **2017**, 53, 11095-11098	5.8	14
491	Designed synthesis of SnO-C hollow microspheres as an anode material for lithium-ion batteries. *Chemical Communications*, **2017**, 53, 11189-11192	5.8	53
490	High-Temperature Formation of a Functional Film at the Cathode/Electrolyte Interface in Lithium–Sulfur Batteries: An In Situ AFM Study. *Angewandte Chemie*, **2017**, 129, 14625-14629	3.6	7
489	Improving the stability of LiNi0.80Co0.15Al0.05O2 by AlPO4 nanocoating for lithium-ion batteries. *Science China Chemistry*, **2017**, 60, 1230-1235	7.9	37
488	Ionic interaction-induced assemblies of bimolecular "chessboard" structures. *Chemical Communications*, **2017**, 53, 9129-9132	5.8	7
487	Kinetically controlled formation of uniform FePO4 shells and their potential for use in high-performance sodium ion batteries. *NPG Asia Materials*, **2017**, 9, e414-e414	10.3	18
486	Template synthesis of imine-based covalent organic framework core-shell structure and hollow sphere: a case of COFTTA-DHTA. *Science China Chemistry*, **2017**, 60, 1098-1102	7.9	13
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