

Zhongxin Song

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.

300
papers

22,088
citations

80
h-index

139
g-index

313
ext. papers

27,419
ext. citations

15.1
avg, IF

7.53
L-index

#	Paper	IF	Citations
300	Antiperovskite Electrolytes for Solid-State Batteries.. <i>Chemical Reviews</i> , 2022 ,	68.1	18
299	Rational design of Ru species on N-doped graphene promoting water dissociation for boosting hydrogen evolution reaction. <i>Science China Chemistry</i> , 2022 , 65, 521	7.9	1
298	Probing heat generation and release in a 57.5 A h high-energy-density Li-ion pouch cell with a nickel-rich cathode and SiO _x /graphite anode. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1227-1235	13	1
297	Advanced Support Materials and Interactions for Atomically Dispersed Noble-Metal Catalysts: From Support Effects to Design Strategies. <i>Advanced Energy Materials</i> , 2022 , 12, 2102556	21.8	8
296	Characterization of Supported Metal Single-Atom Catalysts 2022 , 169-198		2
295	Highly stable halide electrolyte-based all-solid-state Li-Se batteries.. <i>Advanced Materials</i> , 2022 , e2200856	4	7
294	Solvent-Free Approach for Interweaving Freestanding and Ultrathin Inorganic Solid Electrolyte Membranes. <i>ACS Energy Letters</i> , 2022 , 7, 410-416	20.1	15
293	A Series of Ternary Metal Chloride Superionic Conductors for High-Performance All-Solid-State Lithium Batteries (Adv. Energy Mater. 21/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270085	21.8	
292	A general strategy for preparing pyrrolic-N type single-atom catalysts via pre-located isolated atoms. <i>Nature Communications</i> , 2021 , 12, 6806	17.4	18
291	Structure and Charge Regulation Strategy Enabling Superior Cyclability for Ni-Rich Layered Cathode Materials. <i>Small</i> , 2021 , 17, e2104282	11	11
290	Electron and Ion Co-Conductive Catalyst Achieving Instant Transformation of Lithium Polysulfide towards Li S. <i>Advanced Materials</i> , 2021 , e2105362	24	7
289	Fracture and Fatigue of AlO-Graphene Nanolayers. <i>Nano Letters</i> , 2021 , 21, 437-444	11.5	1
288	Phase-Separated MoNi Alloy for Hydrogen Oxidation and Evolution Reactions with High Activity and Enhanced Stability. <i>Advanced Energy Materials</i> , 2021 , 11, 2003511	21.8	22
287	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. <i>Chemistry of Materials</i> , 2021 , 33, 20292036	9.036	4
286	Insight into Ion Diffusion Dynamics/Mechanisms and Electronic Structure of Highly Conductive Sodium-Rich NaLaZrSiPO (0 $\leq x$ 0.5) Solid-State Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13132-13138	9.5	5
285	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. <i>Advanced Functional Materials</i> , 2021 , 31, 2010526	15.6	13
284	High-Performance Quasi-Solid-State Na-Air Battery via Gel Cathode by Confining Moisture. <i>Advanced Functional Materials</i> , 2021 , 31, 2011151	15.6	5

283	Stabilizing LiNi Co Mn O Cathode by Doping Sulfate for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2021 , 14, 2721-2730	8.3	2
282	Deciphering Interfacial Chemical and Electrochemical Reactions of Sulfide-Based All-Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100210	21.8	20
281	Origin of High Ionic Conductivity of Sc-Doped Sodium-Rich NASICON Solid-State Electrolytes. <i>Advanced Functional Materials</i> , 2021 , 31, 2102129	15.6	9
280	High-Performance Ammonium Cobalt Phosphate Nanosheet Electrocatalyst for Alkaline Saline Water Oxidation. <i>Advanced Science</i> , 2021 , 8, 2100498	13.6	8
279	Carbon-Decorated NaV(PO) as Ultralong Lifespan Cathodes for High-Energy-Density Symmetric Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25036-25043	9.5	18
278	Realizing Solid-Phase Reaction in LiB Batteries via Localized High-Concentration Carbonate Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2101004	21.8	9
277	Recent Development of Electrocatalytic CO Reduction Application to Energy Conversion. <i>Small</i> , 2021 , 17, e2100323	11	12
276	New Insights into the High-Performance Black Phosphorus Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2101259	24	14
275	Defects enriched hollow porous Co-N-doped carbons embedded with ultrafine CoFe/Co nanoparticles as bifunctional oxygen electrocatalyst for rechargeable flexible solid zinc-air batteries. <i>Nano Research</i> , 2021 , 14, 868-878	10	35
274	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O ₂ Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 5885-5890	3.6	8
273	Full Concentration Gradient-Tailored Li-Rich Layered Oxides for High-Energy Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2001358	24	33
272	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5821-5826	16.4	22
271	Engineering defect-rich Fe-doped NiO coupled Ni cluster nanotube arrays with excellent oxygen evolution activity. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119809	21.8	45
270	Metal Halide Superionic Conductors for All-Solid-State Batteries. <i>Accounts of Chemical Research</i> , 2021 , 54, 1023-1033	24.3	31
269	Recent advances and perspectives on thin electrolytes for high-energy-density solid-state lithium batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 643-671	35.4	71
268	Regulated lithium plating and stripping by a nano-scale gradient inorganic-organic coating for stable lithium metal anodes. <i>Energy and Environmental Science</i> , 2021 , 14, 4085-4094	35.4	15
267	Reversible Silicon Anodes with Long Cycles by Multifunctional Volumetric Buffer Layers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4093-4101	9.5	12
266	Confined sub-nanometer PtCo clusters as a highly efficient and robust electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5468-5474	13	15

265	A flexible electron-blocking interfacial shield for dendrite-free solid lithium metal batteries. <i>Nature Communications</i> , 2021 , 12, 176	17.4	47
264	All-solid-state lithium batteries enabled by sulfide electrolytes: from fundamental research to practical engineering design. <i>Energy and Environmental Science</i> , 2021 , 14, 2577-2619	35.4	49
263	New Insight of Pyrrole-Like Nitrogen for Boosting Hydrogen Evolution Activity and Stability of Pt Single Atoms. <i>Small</i> , 2021 , 17, e2004453	11	15
262	Reviving Anode Protection Layer in Na-O ₂ Batteries: Failure Mechanism and Resolving Strategy. <i>Advanced Energy Materials</i> , 2021 , 11, 2003789	21.8	6
261	Unveiling the Nature of Pt Single-Atom Catalyst during Electrocatalytic Hydrogen Evolution and Oxygen Reduction Reactions. <i>Small</i> , 2021 , 17, e2007245	11	24
260	Insight into MoS ₂ /MoN Heterostructure to Accelerate Polysulfide Conversion toward High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003314	21.8	60
259	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2100836	21.8	17
258	Realizing High-Performance Li-S Batteries through Additive Manufactured and Chemically Enhanced Cathodes. <i>Small Methods</i> , 2021 , 5, e2100176	12.8	5
257	Superionic Fluorinated Halide Solid Electrolytes for Highly Stable Li-Metal in All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101915	21.8	10
256	A universal wet-chemistry synthesis of solid-state halide electrolytes for all-solid-state lithium-metal batteries. <i>Science Advances</i> , 2021 , 7, eabh1896	14.3	25
255	Core-Shell Structured Cu(OH) ₂ @NiFe(OH) _x Nanotube Electrocatalysts for Methanol Oxidation Based Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8723-8732	5.6	4
254	An Air-Stable and Li-Metal-Compatible Glass-Ceramic Electrolyte enabling High-Performance All-Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006577	24	36
253	Bifunctional Pt ₁ Co ₃ O ₄ electrocatalysts for simultaneous generation of hydrogen and formate via energy-saving alkaline seawater/methanol co-electrolysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6316-6324 ^{13,12}	13.3	12
252	Composite Nanostructure Construction on the Grain Surface of Li-Rich Layered Oxides. <i>Advanced Materials</i> , 2020 , 32, e1906070	24	38
251	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000030	24	81
250	Origin of Superionic LiYInCl Halide Solid Electrolytes with High Humidity Tolerance. <i>Nano Letters</i> , 2020 , 20, 4384-4392	11.5	35
249	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie</i> , 2020 , 132, 14419-14426	3.6	7
248	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14313-14320	16.4	32

247	Dynamics of the Garnet/Li Interface for Dendrite-Free Solid-State Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 2156-2164	20.1	41
246	Understanding the Critical Role of Binders in Phosphorus/Carbon Anode for Sodium-Ion Batteries through Unexpected Mechanism. <i>Advanced Functional Materials</i> , 2020 , 30, 2000060	15.6	15
245	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2001139	21.8	21
244	Controllable Synthesis of Co@CoO/Helical Nitrogen-Doped Carbon Nanotubes toward Oxygen Reduction Reaction as Binder-free Cathodes for Al-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16512-16520	9.5	13
243	Interrogation of the Reaction Mechanism in a Na-O Battery Using Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 , 14, 3669-3677	16.7	22
242	Eliminating the Detrimental Effects of Conductive Agents in Sulfide-Based Solid-State Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1243-1251	20.1	38
241	Site-Occupation-Tuned Superionic LiScClHalide Solid Electrolytes for All-Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7012-7022	16.4	97
240	Determining the limiting factor of the electrochemical stability window for PEO-based solid polymer electrolytes: main chain or terminal OH group?. <i>Energy and Environmental Science</i> , 2020 , 13, 1318-1325	35.4	141
239	Highly Dispersed Nonprecious Metal Catalyst for Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17481-17491	9.5	14
238	Active and Stable PtNi Alloy Octahedra Catalyst for Oxygen Reduction via Near-Surface Atomical Engineering. <i>ACS Catalysis</i> , 2020 , 10, 4205-4214	13.1	47
237	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1035-1043	20.1	73
236	Temperature-Dependent Chemical and Physical Microstructure of Li Metal Anodes Revealed through Synchrotron-Based Imaging Techniques. <i>Advanced Materials</i> , 2020 , 32, e2002550	24	27
235	Phosphorene Nanosheets Exfoliated from Low-Cost and High-Quality Black Phosphorus for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7508-7515	5.6	6
234	Encapsulating Pt Nanoparticles inside a Derived Two-Dimensional Metal-Organic Frameworks for the Enhancement of Catalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10359-10368	9.5	26
233	Anhydride Post-Synthetic Modification in a Hierarchical Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4419-4428	16.4	30
232	Towards high-performance solid-state Li-S batteries: from fundamental understanding to engineering design. <i>Chemical Society Reviews</i> , 2020 , 49, 2140-2195	58.5	175
231	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm ² /20 mAh cm ² Realized by Selective Nucleation within Microchannel Walls. <i>Advanced Energy Materials</i> , 2020 , 10, 1903753	21.8	44
230	A Versatile Sn-Substituted Argyrodite Sulfide Electrolyte for All-Solid-State Li Metal Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903422	21.8	81

229	Phosphorene Degradation: Visualization and Quantification of Nanoscale Phase Evolution by Scanning Transmission X-ray Microscopy. <i>Chemistry of Materials</i> , 2020 , 32, 1272-1280	9.6	8
228	Li ₁₀ Ge(P _{1-x} Sb _x) ₂ S ₁₂ Lithium-Ion Conductors with Enhanced Atmospheric Stability. <i>Chemistry of Materials</i> , 2020 , 32, 2664-2672	9.6	50
227	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001118	15.6	25
226	Progress and perspectives on halide lithium conductors for all-solid-state lithium batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 1429-1461	35.4	153
225	Design of a mixed conductive garnet/Li interface for dendrite-free solid lithium metal batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 127-134	35.4	150
224	Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage LiCoO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2769-2776	13	38
223	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state LiSe batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 278-286	13	22
222	High-performance alcohol electrooxidation on Pt ₃ Sn ₂ O ₂ nanocatalysts synthesized through the transformation of PtSn nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 592-598	13	13
221	Variable-Energy Hard X-ray Photoemission Spectroscopy: A Nondestructive Tool to Analyze the Cathode-Solid-State Electrolyte Interface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2293-2298	9.5	7
220	Li ₂ CO ₃ : A Critical Issue for Developing Solid Garnet Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 252-262	20.1	96
219	Engineering the Low Coordinated Pt Single Atom to Achieve the Superior Electrocatalytic Performance toward Oxygen Reduction. <i>Small</i> , 2020 , 16, e2003096	11	36
218	Enhancing metal-support interaction by in situ ion-exchanging strategy for high performance Pt catalysts in hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16582-16589	13	13
217	Tuning the dual-active sites of ZIF-67 derived porous nanomaterials for boosting oxygen catalysis and rechargeable Zn-air batteries. <i>Nano Research</i> , 2020 , 14, 2353	10	18
216	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. <i>Nature Communications</i> , 2020 , 11, 5700	17.4	40
215	3D Porous Garnet/Gel Polymer Hybrid Electrolyte for Safe Solid-State LiO ₂ Batteries with Long Lifetimes. <i>Chemistry of Materials</i> , 2020 , 32, 10113-10119	9.6	14
214	Unraveling the Origin of Moisture Stability of Halide Solid-State Electrolytes by In Situ and Operando Synchrotron X-ray Analytical Techniques. <i>Chemistry of Materials</i> , 2020 , 32, 7019-7027	9.6	27
213	Engineering Surface Oxygenated Functionalities on Commercial Carbon toward Ultrafast Sodium Storage in Ether-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37116-37127	9.5	8
212	Recent Advances in MOF-Derived Single Atom Catalysts for Electrochemical Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2001561	21.8	122

211	Insights into the electronic origin of enhancing the catalytic activity of Co ₃ O ₄ for oxygen evolution by single atom ruthenium. <i>Nano Today</i> , 2020 , 34, 100955	17.9	12
210	Interfaces in Garnet-Based All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001318.8	18.8	37
209	Recent advances and strategies in the stabilization of single-atom catalysts for electrochemical applications 2020 , 2, 488-520		16
208	Phase Evolution of a Prenucleator for Fast Li Nucleation in All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001191	21.8	10
207	Fast Charging All Solid-State Lithium Batteries Enabled by Rational Design of Dual Vertically-Aligned Electrodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2005357	15.6	13
206	Hierarchical Hybrid of Few-Layer Graphene upon Tungsten Monocarbide Nanowires: Controlled Synthesis and Electrocatalytic Performance for Methanol Oxidation. <i>ACS Applied Energy Materials</i> , 2019 , 2, 328-337	6.1	2
205	Air-stable Li ₃ InCl ₆ electrolyte with high voltage compatibility for all-solid-state batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2665-2671	35.4	158
204	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , 2019 , 9, 9350-9358	13.1	61
203	Single-Atom Catalysts: From Design to Application. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 539-573	29.3	157
202	Highly Exposed Active Sites of Defect-Enriched Derived MOFs for Enhanced Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17855-17862	8.3	35
201	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2480-2488	20.1	85
200	Highly stable one-dimensional Pt nanowires with modulated structural disorder towards the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24830-24836	13	14
199	Highly stable single Pt atomic sites anchored on aniline-stacked graphene for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2019 , 12, 1000-1007	35.4	264
198	Pt-Based electrocatalysts with high atom utilization efficiency: from nanostructures to single atoms. <i>Energy and Environmental Science</i> , 2019 , 12, 492-517	35.4	275
197	g-C ₃ N ₄ promoted MOF derived hollow carbon nanopolyhedra doped with high density/fraction of single Fe atoms as an ultra-high performance non-precious catalyst towards acidic ORR and PEM fuel cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5020-5030	13	102
196	Cobalt-Doped SnS ₂ with Dual Active Centers of Synergistic Absorption-Catalysis Effect for High-S Loading Li-S Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1806724	15.6	139
195	In situ formation of highly controllable and stable Na ₃ PS ₄ as a protective layer for Na metal anode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4119-4125	13	29
194	Three-dimensional Composite Catalysts for Al-O Batteries Composed of CoMnO Nanoneedles Supported on Nitrogen-Doped Carbon Nanotubes/Graphene. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21526-21535	9.5	25

193	Promoting the Transformation of Li S to Li S: Significantly Increasing Utilization of Active Materials for High-Sulfur-Loading Li-S Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901220	24	186
192	Lithium-Ion Batteries: Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material for Lithium-Ion Batteries (Adv. Energy Mater. 15/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970051	21.8	7
191	Solid-State Plastic Crystal Electrolytes: Effective Protection Interlayers for Sulfide-Based All-Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1900392	15.6	92
190	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019 , 9, 5365-5374	13.1	21
189	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900261	12.8	60
188	Ultra-high performance of Li/Na ion batteries using N/O dual dopant porous hollow carbon nanocapsules as an anode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11117-11126	13	25
187	Rational Design of Hierarchical Ceramic-in-Polymer and Polymer-in-Ceramic Electrolytes for Dendrite-Free Solid-State Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1804004	21.8	246
186	Visualization of the secondary phase in LiFePO ₄ ingots with advanced mapping techniques. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2218-2223	2.3	1
185	High-Performance Li-SeS All-Solid-State Lithium Batteries. <i>Advanced Materials</i> , 2019 , 31, e1808100	24	79
184	Tailoring Li ₆ PS ₅ Br ionic conductivity and understanding of its role in cathode mixtures for high performance all-solid-state LiS batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10412-10421	13	42
183	Visualizing the Oxidation Mechanism and Morphological Evolution of the Cubic-Shaped Superoxide Discharge Product in Na-Air Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1808332	15.6	20
182	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie</i> , 2019 , 131, 15944-15949	3.6	9
181	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15797-15802	16.4	64
180	Suppressing Corrosion of Aluminum Foils via Highly Conductive Graphene-like Carbon Coating in High-Performance Lithium-Based Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32826-32832	9.5	17
179	An Air-Stable and Dendrite-Free Li Anode for Highly Stable All-Solid-State Sulfide-Based Li Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1902125	21.8	72
178	Insight into the Microstructure and Ionic Conductivity of Cold Sintered NASICON Solid Electrolyte for Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27890-27896	9.5	34
177	Unveiling the Interfacial Instability of the Phosphorus/Carbon Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30763-30773	9.5	16
176	Highly Active and Durable Ultrasmall Pd Nanocatalyst Encapsulated in Ultrathin Silica Layers by Selective Deposition for Formic Acid Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43130-43137	9.5	9

175	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie</i> , 2019 , 131, 16579-16584	3.6	40
174	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16427-16432	16.4	113
173	Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18647-18653	16.4	29
172	Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. <i>Angewandte Chemie</i> , 2019 , 131, 18820-18826	3.6	4
171	Titelbild: Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte (Angew. Chem. 46/2019). <i>Angewandte Chemie</i> , 2019 , 131, 16852-16852	3.6	
170	The application of carbon materials in nonaqueous Na-O ₂ batteries 2019 , 1, 141-164		33
169	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. <i>Nature Communications</i> , 2019 , 10, 4936	17.4	186
168	ALD derived Fe ³⁺ - doping toward high performance P ₂ N ₄ 0.75Ni _{0.2} Co _{0.2} Mn _{0.6} O ₂ cathode material for sodium ion batteries. <i>Materials Today Energy</i> , 2019 , 14, 100353	7	11
167	O ₂ /O ₂ ⁻ Crossover- and Dendrite-Free Hybrid Solid-State NaO ₂ Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 9024-9031	9.6	14
166	Efficient Trapping and Catalytic Conversion of Polysulfides by VS ₄ Nanosites for LiS Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 755-762	20.1	122
165	Atomic Fe-Doped MOF-Derived Carbon Polyhedrons with High Active-Center Density and Ultra-High Performance toward PEM Fuel Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1802856	21.8	142
164	Implanting CNT Forest onto Carbon Nanosheets as Multifunctional Hosts for High-Performance Lithium Metal Batteries. <i>Small Methods</i> , 2019 , 3, 1800546	12.8	27
163	Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803963	21.8	143
162	Engineering a Nanonet-Reinforced polymer electrolyte for long-life LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24947-24952	13	13
161	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. <i>Small</i> , 2019 , 15, e1904740	11	69
160	Nanomechanical elasticity and fracture studies of lithium phosphate (LPO) and lithium tantalate (LTO) solid-state electrolytes. <i>Nanoscale</i> , 2019 , 11, 18730-18738	7.7	11
159	A metal-organic framework-derived bifunctional catalyst for hybrid sodium-air batteries. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 407-414	21.8	73
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