

# Zhen 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.

358  
papers

29,344  
citations

97  
h-index

158  
g-index

378  
ext. papers

33,566  
ext. citations

8.9  
avg, IF

7.86  
L-index

#	Paper	IF	Citations
358	Targeted design of advanced electrocatalysts by machine learning. <i>Chinese Journal of Catalysis</i> , <b>2022</b> , 43, 11-32	11.3	10
357	Nickel single-atom catalysts intrinsically promoted by fast pyrolysis for selective electroreduction of CO <sub>2</sub> into CO. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 304, 120997	21.8	6
356	Perspective on Theoretical Models for CO <sub>2</sub> Electrochemical Reduction. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 3820-3829	3.8	3
355	Redox mediators for high-performance lithium-oxygen batteries.. <i>National Science Review</i> , <b>2022</b> , 9, nwac048	14.8	7
354	Cobalt oxyhydroxide decorating hollow carbon sphere: A high-efficiency multi-functional material for Li-S batteries and alkaline electrocatalysis. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135790	14.7	3
353	Fiber-Reinforced Composite Polymer Electrolytes for Solid-State Lithium Batteries. <i>Advanced Sustainable Systems</i> , <b>2022</b> , 6, 2100389	5.9	2
352	Oxygen reduction reaction on Pt-based electrocatalysts: Four-electron vs. two-electron pathway. <i>Chinese Journal of Catalysis</i> , <b>2022</b> , 43, 1433-1443	11.3	0
351	Frenkel-defected monolayer MoS catalysts for efficient hydrogen evolution.. <i>Nature Communications</i> , <b>2022</b> , 13, 2193	17.4	17
350	Atomic Fe-N /C in flexible carbon fiber membrane as binder-free air cathode for Zn-air batteries with stable cycling over 1000 hours. <i>Advanced Materials</i> , <b>2021</b> , e2105410	24	23
349	Understanding the role of axial O in CO <sub>2</sub> electroreduction on NiN <sub>4</sub> single-atom catalysts via simulations in realistic electrochemical environment. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 23515-23521	13.2	5
348	In situ redox reaction induced firmly anchoring of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> on reduced graphene oxide & carbon nanosheets as cathodes for high stable sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 516, 230515	8.9	3
347	Three-Dimensional Graphene-Based Macrostructures for Electrocatalysis. <i>Small</i> , <b>2021</b> , 17, e2005255	11	12
346	High-capacity and small-polarization aluminum organic batteries based on sustainable quinone-based cathodes with Al <sup>3+</sup> insertion. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100354	6.1	14
345	Transition metal doping BiOBr nanosheets with oxygen vacancy and exposed {102} facets for visible light nitrogen fixation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 281, 119516	21.8	48
344	Tuning the structure and morphology of Li <sub>2</sub> O <sub>2</sub> by controlling the crystallinity of catalysts for Li-O <sub>2</sub> batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128145	14.7	16
343	A composite of CoNiP quantum dot-decorated reduced graphene oxide as a sulfur host for LiS batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16692-16698	13	13
342	Controllable atomic defect engineering in layered Ni <sub>x</sub> Fe <sub>1-x</sub> (OH) <sub>2</sub> nanosheets for electrochemical overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14432-14443	13	30

341	Non-Metal Ion Co-Insertion Chemistry in Aqueous Zn/MnO <sub>2</sub> Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7132-7136	3.6	5
340	Recent Advances in Alkali Metal-Ion Hybrid Supercapacitors. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1108-1121	5.6	6
339	NASICON-Type Na <sub>3</sub> Zr <sub>2</sub> Si <sub>2</sub> PO <sub>12</sub> Solid-State Electrolytes for Sodium Batteries**. <i>ChemElectroChem</i> , <b>2021</b> , 8, 1035-1047	4.3	15
338	Non-Metal Ion Co-Insertion Chemistry in Aqueous Zn/MnO Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7056-7060	16.4	36
337	Single-atom catalysts for electrochemical energy storage and conversion. <i>Journal of Energy Chemistry</i> , <b>2021</b> ,	12	12
336	Catalyst Design for Electrochemical Reduction of CO to Multicarbon Products.. <i>Small Methods</i> , <b>2021</b> , 5, e2100736	12.8	11
335	Pd-promoting reduction of zinc salt to PdZn alloy catalyst for the hydrogenation of nitrothioanisole. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 602, 459-468	9.3	4
334	Carbon Nanofibers with Embedded Sb Se Nanoparticles as Highly Reversible Anodes for Na-Ion Batteries. <i>Small</i> , <b>2021</b> , 17, e2006016	11	22
333	Ultrathin salt-free polymer-in-ceramic electrolyte for solid-state sodium batteries. <i>EScience</i> , <b>2021</b> , 1, 194-202		6
332	Direct Spectroscopic Evidence for Solution-Mediated Oxygen Reduction Reaction Intermediates in Aprotic Lithium-Oxygen Batteries.. <i>Nano Letters</i> , <b>2021</b> ,	11.5	2
331	Controllable fabrication and structure evolution of hierarchical 1T-MoS <sub>2</sub> nanospheres for efficient hydrogen evolution. <i>Green Energy and Environment</i> , <b>2020</b> , 7, 314-314	5.7	8
330	Targeting specific cell organelles with different-faceted nanocrystals that are selectively recognized by organelle-targeting peptides. <i>Chemical Communications</i> , <b>2020</b> , 56, 7613-7616	5.8	3
329	Building Artificial Solid-Electrolyte Interphase with Uniform Intermolecular Ionic Bonds toward Dendrite-Free Lithium Metal Anodes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002414	15.6	54
328	A CO-Assisted Sodium-Phenanthrenequinone Battery. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 5350-5353	6.4	2
327	Well-dispersed Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> @rGO with improved kinetics for high-power sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12391-12397	13	31
326	Machine learning: Accelerating materials development for energy storage and conversion. <i>Informa Materials</i> , <b>2020</b> , 2, 553-576	23.1	86
325	Boosting bifunctional electrocatalytic activity in S and N co-doped carbon nanosheets for high-efficiency Zn-air batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4386-4395	13	62
324	A Cu <sub>2</sub> B <sub>2</sub> monolayer with planar hypercoordinate motifs: an efficient catalyst for CO electroreduction to ethanol. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 9607-9615	13	13

323	Electronic and photocatalytic performance of boron phosphide-blue phosphorene vdW heterostructures. <i>Applied Surface Science</i> , <b>2020</b> , 523, 146483	6.7	47
322	Critical interface between inorganic solid-state electrolyte and sodium metal. <i>Materials Today</i> , <b>2020</b> , 41, 200-218	21.8	27
321	Design of ultralong-life Li <sub>2</sub> O <sub>2</sub> batteries with IrO <sub>2</sub> nanoparticles highly dispersed on nitrogen-doped carbon nanotubes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3763-3770	13	31
320	2 D Materials for Electrochemical Energy Storage: Design, Preparation, and Application. <i>ChemSusChem</i> , <b>2020</b> , 13, 1155-1171	8.3	45
319	Metal <sub>2</sub> O <sub>2</sub> Batteries at the Crossroad to Practical Energy Storage and CO <sub>2</sub> Recycle. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908285	15.6	53
318	Ni <sub>3</sub> S <sub>2</sub> anchored to N/S co-doped reduced graphene oxide with highly pleated structure as a sulfur host for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3834-3844	13	28
317	Understanding the Structure-Performance Relationship of Lithium-Rich Cathode Materials from an Oxygen-Vacancy Perspective. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47655-47666	9.5	18
316	Carbon block anodes with columnar nanopores constructed from amine-functionalized carbon nanosheets for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24393-24400	13	5
315	Diversified development of CO <sub>2</sub> in energy storage. <i>Green Chemical Engineering</i> , <b>2020</b> , 1, 79-81	3	5
314	A first-principles study of electronic structure and photocatalytic performance of two-dimensional van der Waals MTe <sub>2</sub> As (M = Mo, W) heterostructures. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 27089-27097	6.7	20
313	Enzyme-Inspired Room-Temperature Lithium-Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17856-17863	16.4	12
312	Coupling of triporosity and strong Au <sup>+</sup> /Li interaction to enable dendrite-free lithium plating/stripping for long-life lithium metal anodes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18094-18105	13	25
311	Surface modification of garnet with amorphous SnO <sub>2</sub> via atomic layer deposition. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18087-18093	13	11
310	Enzyme-Inspired Room-Temperature Lithium-Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18012-18019	3.6	2
309	A Machine Learning Model on Simple Features for CO <sub>2</sub> Reduction Electrocatalysts. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22471-22478	3.8	50
308	Towards practical lithium-metal anodes. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 3040-3071	58.5	224
307	Bifunctional electrocatalysts for rechargeable Zn-air batteries. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 1298-1310	11.3	58
306	Metal-organic-framework-derived porous 3D heterogeneous Ni <sub>x</sub> Fe <sub>1-x</sub> /NiFe <sub>2</sub> O <sub>4</sub> @NC nanoflowers as highly stable and efficient electrocatalysts for the oxygen-evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21338-21348	13	42

305	Integrated insights into Na <sup>+</sup> storage mechanism and electrochemical kinetics of ultrafine V <sub>2</sub> O <sub>3</sub> /S and N co-doped rGO composites as anodes for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22429-22435	13	16
304	Recent Progress in Protecting Lithium Anodes for Li-O <sub>2</sub> Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1969-1977	4.3	27
303	Synergistic effect of Zr-MOF on phosphomolybdic acid promotes efficient oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117804	21.8	69
302	Computationally predicting spin semiconductors and half metals from doped phosphorene monolayers. <i>Frontiers of Physics</i> , <b>2019</b> , 14, 1	3.7	8
301	Lithium-air batteries: Challenges coexist with opportunities. <i>APL Materials</i> , <b>2019</b> , 7, 040701	5.7	26
300	MoCl <sub>5</sub> as a dual-function redox mediator for Li-O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14239-14243	13	14
299	A Gadolinium(III) Zeolite-like Metal-Organic-Framework-Based Magnetic Resonance Thermometer. <i>CheM</i> , <b>2019</b> , 5, 1609-1618	16.2	21
298	Computational Screening of Layered Materials for Multivalent Ion Batteries. <i>ACS Omega</i> , <b>2019</b> , 4, 7822-7838	3.9	15
297	Band engineering of two-dimensional Ruddlesden-Popper perovskites for solar utilization: the relationship between chemical components and electronic properties. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11530-11536	13	13
296	Carbon-Based Substrates for Highly Dispersed Nanoparticle and Even Single-Atom Electrocatalysts. <i>Small Methods</i> , <b>2019</b> , 3, 1900050	12.8	52
295	Understanding Rechargeable Li-O <sub>2</sub> Batteries via First-Principles Computations. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 498-508	5.6	25
294	Bi-layer Graphene: Structure, Properties, Preparation and Prospects. <i>Current Graphene Science</i> , <b>2019</b> , 2, 97-105	0.7	1
293	2D Triphosphides: SbP <sub>3</sub> and GaP <sub>3</sub> monolayer as promising photocatalysts for water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 5948-5954	6.7	33
292	Sulfur/nickel ferrite composite as cathode with high-volumetric-capacity for lithium-sulfur battery. <i>Science China Materials</i> , <b>2019</b> , 62, 74-86	7.1	68
291	High-throughput computational screening of layered and two-dimensional materials. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2019</b> , 9, e1385	7.9	26
290	CuO Nanoplates for High-Performance Potassium-Ion Batteries. <i>Small</i> , <b>2019</b> , 15, e1901775	11	67
289	Algorithm screening to accelerate discovery of 2D metal-free electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19290-19296	13	31
288	Li-N Batteries: A Reversible Energy Storage System?. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17782-17787	16.4	18

287	Cation-induced chirality in a bifunctional metal-organic framework for quantitative enantioselective recognition. <i>Nature Communications</i> , <b>2019</b> , 10, 5117	17.4	77
286	Li-N <sub>2</sub> Batteries: A Reversible Energy Storage System?. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17946-17951	3.6	2
285	LiFePO <sub>4</sub> Particles Embedded in Fast Bifunctional Conductor rGO&C@Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Nanosheets as Cathodes for High-Performance Li-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807895	15.6	29
284	Titelbild: Li-N <sub>2</sub> Batteries: A Reversible Energy Storage System? (Angew. Chem. 49/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17645-17645	3.6	1
283	Fe nanodot-decorated MoS <sub>2</sub> nanosheets on carbon cloth: an efficient and flexible electrode for ambient ammonia synthesis. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27417-27422	13	44
282	Rational design of C <sub>2</sub> N-based type-II heterojunctions for overall photocatalytic water splitting. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 154-161	5.1	46
281	Exploiting Synergistic Effect by Integrating Ruthenium-Copper Nanoparticles Highly Co-Dispersed on Graphene as Efficient Air Cathodes for Li-O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802805	21.8	69
280	Highly reversible alloying/dealloying behavior of SnSb nanoparticles incorporated into N-rich porous carbon nanowires for ultra-stable Na storage. <i>Energy Storage Materials</i> , <b>2019</b> , 21, 203-209	19.4	30
279	Metal-Organic Frameworks (MOFs) and MOF-Derived Materials for Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , <b>2019</b> , 2, 29-104	29.3	152
278	Promoting Nitrogen Electroreduction on Mo <sub>2</sub> C Nanoparticles Highly Dispersed on N-Doped Carbon Nanosheets toward Rechargeable Li-N <sub>2</sub> Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1800334	12.8	24
277	Carbon-Supported Divacancy-Anchored Platinum Single-Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1175-1179	3.6	52
276	Carbon-Supported Divacancy-Anchored Platinum Single-Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1163-1167	16.4	166
275	Fabricating high-performance sodium ion capacitors with P <sub>2</sub> -Na <sub>0.67</sub> Co <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> and MOF-derived carbon. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 28, 79-84	12	22
274	Bifunctional electrocatalysts of MOF-derived Co-N/C on bamboo-like MnO nanowires for high-performance liquid- and solid-state Zn-air batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9716-9722	12	128
273	Thermal Instability Induced Oriented 2D Pores for Enhanced Sodium Storage. <i>Small</i> , <b>2018</b> , 14, e1800639	11	33
272	Synergistic electrocatalytic oxygen reduction reactions of Pd/B <sub>4</sub> C for ultra-stable Zn-air batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 226-233	19.4	29
271	Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts. <i>Small Methods</i> , <b>2018</b> , 2, 1700359	12.8	96
270	Binder-free NiFe <sub>2</sub> O <sub>4</sub> /C nanofibers as air cathodes for Li-O <sub>2</sub> batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 377, 136-141	8.9	46

269	Micro/Nanostructured Materials for Sodium Ion Batteries and Capacitors. <i>Small</i> , <b>2018</b> , 14, 1702961	11	173
268	Identification of cathode stability in Li <sub>2</sub> CO <sub>2</sub> batteries with Cu nanoparticles highly dispersed on N-doped graphene. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3218-3223	13	94
267	What is the promising anode material for Na ion batteries?. <i>Science Bulletin</i> , <b>2018</b> , 63, 146-148	10.6	20
266	High performance Li <sub>2</sub> CO <sub>2</sub> batteries with NiO <sub>2</sub> NT cathodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2792-2796	13	116
265	Computational screening and first-principles investigations of NASICON-type Li <sub>x</sub> M <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as solid electrolytes for Li batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2625-2631	13	35
264	An effective method to screen sodium-based layered materials for sodium ion batteries. <i>Npj Computational Materials</i> , <b>2018</b> , 4,	10.9	52
263	SiP monolayers: New 2D structures of group IV <sub>V</sub> compounds for visible-light photohydrolytic catalysts. <i>Frontiers of Physics</i> , <b>2018</b> , 13, 1	3.7	24
262	Metal-oxygen bonds: Stabilizing the intermediate species towards practical Li-air batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 313-320	6.7	10
261	Hard carbon derived from corn straw piths as anode materials for sodium ion batteries. <i>Ionics</i> , <b>2018</b> , 24, 1075-1081	2.7	30
260	An Extremely Simple Method for Protecting Lithium Anodes in Li-O <sub>2</sub> Batteries. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 12996-13000	3.6	32
259	Molten-Salt-Assisted Synthesis of 3D Holey N-Doped Graphene as Bifunctional Electrocatalysts for Rechargeable Zn <sub>2</sub> Air Batteries. <i>Small Methods</i> , <b>2018</b> , 2, 1800144	12.8	51
258	An Extremely Simple Method for Protecting Lithium Anodes in Li-O Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 12814-12818	16.4	68
257	Electronic structure of heterojunction MoO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> catalyst for oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 263-273	21.8	106
256	In Situ Chelating Synthesis of Hierarchical LiNi Co Mn O Polyhedron Assemblies with Ultralong Cycle Life for Li-Ion Batteries. <i>Small</i> , <b>2018</b> , 14, e1704354	11	23
255	Fabricating Ir/C Nanofiber Networks as Free-Standing Air Cathodes for Rechargeable Li-CO Batteries. <i>Small</i> , <b>2018</b> , 14, e1800641	11	84
254	Water Splitting: Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts (Small Methods 5/2018). <i>Small Methods</i> , <b>2018</b> , 2, 1800031	12.8	
253	Verifying the Rechargeability of Li-CO Batteries on Working Cathodes of Ni Nanoparticles Highly Dispersed on N-Doped Graphene. <i>Advanced Science</i> , <b>2018</b> , 5, 1700567	13.6	117
252	MXene-based materials for electrochemical energy storage. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 73-85	12	354

251 Li<sub>2</sub>O<sub>2</sub> Batteries **2018**, 1-17

- 250 PAN@ZIF-67-Derived "Gypsophila"-Like CNFs@Co-CoO Composite as a Cathode for Li-O Batteries. *Inorganic Chemistry*, **2018**, 57, 14476-14479 5.1 16
- 249 Electrolyte-Regulated Solid-Electrolyte Interphase Enables Long Cycle Life Performance in Organic Cathodes for Potassium-Ion Batteries. *Advanced Functional Materials*, **2018**, 29, 1807137 15.6 70
- 248 Heteroatom-doped carbon materials and their composites as electrocatalysts for CO<sub>2</sub> reduction. *Journal of Materials Chemistry A*, **2018**, 6, 18782-18793 13 89
- 247 Cu-Cluster-Doped Monolayer MoCO (MXene) as an Electron Reservoir for Catalyzing a CO Oxidation Reaction. *ACS Applied Materials & Interfaces*, **2018**, 10, 32903-32912 9.5 38
- 246 Double-atom catalysts: transition metal dimer-anchored C<sub>2</sub>N monolayers as N<sub>2</sub> fixation electrocatalysts. *Journal of Materials Chemistry A*, **2018**, 6, 18599-18604 13 150
- 245 Robust ferromagnetism in zigzag-edge rich MoS pyramids. *Nanoscale*, **2018**, 10, 11578-11584 7.7 15
- 244 Unveiling the Complex Effects of HO on Discharge-Recharge Behaviors of Aprotic Lithium-O Batteries. *Journal of Physical Chemistry Letters*, **2018**, 9, 3333-3339 6.4 38
- 243 Transition metal anchored C<sub>2</sub>N monolayers as efficient bifunctional electrocatalysts for hydrogen and oxygen evolution reactions. *Journal of Materials Chemistry A*, **2018**, 6, 11446-11452 13 133
- 242 Micro/Nanostructure-Dependent Electrochemical Performances of Sb<sub>2</sub>O<sub>3</sub> Micro-Bundles as Anode Materials for Sodium-Ion Batteries. *ChemElectroChem*, **2018**, 5, 2522-2527 4.3 12
- 241 Interlayer-Spacing-Regulated VOPO Nanosheets with Fast Kinetics for High-Capacity and Durable Rechargeable Magnesium Batteries. *Advanced Materials*, **2018**, 30, e1801984 24 115
- 240 Ultrathin Layered Hydroxide Cobalt Acetate Nanoplates Face-to-Face Anchored to Graphene Nanosheets for High-Efficiency Lithium Storage. *Advanced Functional Materials*, **2017**, 27, 1605544 15.6 86
- 239 Metal-CO Batteries on the Road: CO from Contamination Gas to Energy Source. *Advanced Materials*, **2017**, 29, 1605891 24 169
- 238 Tetragonal-structured anisotropic 2D metal nitride monolayers and their halides with versatile promises in energy storage and conversion. *Journal of Materials Chemistry A*, **2017**, 5, 2870-2875 13 32
- 237 A Robust Hybrid of SnO<sub>2</sub> Nanoparticles Sheathed by N-Doped Carbon Derived from ZIF-8 as Anodes for Li-Ion Batteries. *ChemNanoMat*, **2017**, 3, 252-258 3.5 20
- 236 Recent Breakthroughs in Supercapacitors Boosted by Nitrogen-Rich Porous Carbon Materials. *Advanced Science*, **2017**, 4, 1600408 13.6 275
- 235 Atomic Interface Engineering and Electric-Field Effect in Ultrathin Bi MoO Nanosheets for Superior Lithium Ion Storage. *Advanced Materials*, **2017**, 29, 1700396 24 251
- 234 Boosting the rate capability of hard carbon with an ether-based electrolyte for sodium ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 9528-9532 13 105



233	Ti <sub>2</sub> CO <sub>2</sub> MXene: a highly active and selective photocatalyst for CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12899-12903	13	148
232	Improving Electrochemical Performances of Rechargeable Li <sub>2</sub> CO <sub>2</sub> Batteries with an Electrolyte Redox Mediator. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2145-2149	4.3	54
231	First-principles computational studies on layered Na <sub>2</sub> Mn <sub>3</sub> O <sub>7</sub> as a high-rate cathode material for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12752-12756	13	28
230	K <sub>1-x</sub> Mo <sub>3</sub> P <sub>2</sub> O <sub>14</sub> as Support for Single-Atom Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 22895-22900	3.900	10
229	T-Nb O /C Nanofibers Prepared through Electrospinning with Prolonged Cycle Durability for High-Rate Sodium-Ion Batteries Induced by Pseudocapitance. <i>Small</i> , <b>2017</b> , 13, 1702588	11	95
228	Graphitization and Pore Structure Adjustment of Graphene for Energy Storage and Conversion. <i>Current Graphene Science</i> , <b>2017</b> , 1,	0.7	2
227	Fast Sodium Storage in TiO <sub>2</sub> @CNT@C Nanorods for High-Performance Na-Ion Capacitors. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701222	21.8	235
226	Oriented SnS nanoflakes bound on S-doped N-rich carbon nanosheets with a rapid pseudocapacitive response as high-rate anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19745-19751	13	91
225	Zeolitic imidazole framework derived composites of nitrogen-doped porous carbon and reduced graphene oxide as high-efficiency cathode catalysts for Li <sub>2</sub> O <sub>2</sub> batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 1533-1538	6.8	22
224	MnB <sub>x</sub> monolayers with quasi-planar hypercoordinate Mn atoms and unique magnetic and mechanical properties. <i>FlatChem</i> , <b>2017</b> , 4, 42-47	5.1	8
223	GO-induced preparation of flake-shaped Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @rGO as high-rate and long-life cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 25276-25281	13	49
222	Heteroatom-doped graphene as electrocatalysts for air cathodes. <i>Materials Horizons</i> , <b>2017</b> , 4, 7-19	14.4	119
221	S-Doped N-Rich Carbon Nanosheets with Expanded Interlayer Distance as Anode Materials for Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604108	24	468
220	Yolk-Shell MnO@ZnMn O /N-C Nanorods Derived from MnO /ZIF-8 as Anode Materials for Lithium Ion Batteries. <i>Small</i> , <b>2016</b> , 12, 5564-5571	11	103
219	Ab initio investigations on bulk and monolayer V <sub>2</sub> O <sub>5</sub> as cathode materials for Li-, Na-, K- and Mg-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 16606-16611	13	54
218	Structure-modulated crystalline covalent organic frameworks as high-rate cathodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18621-18627	13	130
217	A P <sub>2</sub> -Na <sub>0.67</sub> Co <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> cathode material with excellent rate capability and cycling stability for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11103-11109	13	123
216	NiFe <sub>2</sub> O <sub>4</sub> @CNT composite: an efficient electrocatalyst for oxygen evolution reactions in Li <sub>2</sub> O <sub>2</sub> batteries guided by computations. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9390-9393	13	42

215	Rational design of SnO <sub>2</sub> @C nanocomposites for lithium ion batteries by utilizing adsorption properties of MOFs. <i>Chemical Communications</i> , <b>2016</b> , 52, 717-20	5.8	56
214	Nanomaterials and Technologies for Lithium-Ion Hybrid Supercapacitors. <i>ChemNanoMat</i> , <b>2016</b> , 2, 578-587	5.5	61
213	Recent progress in rechargeable alkali metal-air batteries. <i>Green Energy and Environment</i> , <b>2016</b> , 1, 4-17	5.7	171
212	A Ti-anchored Ti <sub>2</sub> CO <sub>2</sub> monolayer (MXene) as a single-atom catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4871-4876	13	190
211	Structure and properties of phosphorene-like IV-VI 2D materials. <i>Nanotechnology</i> , <b>2016</b> , 27, 415203	3.4	41
210	Towards visible-light water splitting Photocatalysts: Band engineering of two-dimensional A <sub>5</sub> B <sub>4</sub> O <sub>15</sub> perovskites. <i>Nano Energy</i> , <b>2016</b> , 28, 390-396	17.1	27
209	The First Example of Hetero-Triple-Walled Metal-Organic Frameworks with High Chemical Stability Constructed via Flexible Integration of Mixed Molecular Building Blocks. <i>Advanced Science</i> , <b>2016</b> , 3, 1500283	13.6	26
208	MnPSe Monolayer: A Promising 2D Visible-Light Photohydrolytic Catalyst with High Carrier Mobility. <i>Advanced Science</i> , <b>2016</b> , 3, 1600062	13.6	216
207	Phosphorene: what can we know from computations?. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2016</b> , 6, 5-19	7.9	112
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205	Computational study of catalytic effect of C <sub>3</sub> N <sub>4</sub> on H <sub>2</sub> release from complex hydrides. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 8897-8902	6.7	11
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202	Achieving battery-level energy density by constructing aqueous carbonaceous supercapacitors with hierarchical porous N-rich carbon materials. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11387-11394	13	115
201	Alluaudite Na <sub>2</sub> Co <sub>2</sub> Fe(PO <sub>4</sub> ) <sub>3</sub> as an electroactive material for sodium ion batteries. <i>Dalton Transactions</i> , <b>2015</b> , 44, 7881-6	4.3	49
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199	Rechargeable Li-CO <sub>2</sub> batteries with carbon nanotubes as air cathodes. <i>Chemical Communications</i> , <b>2015</b> , 51, 14636-9	5.8	150
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197	Designing high-voltage carbonyl-containing polycyclic aromatic hydrocarbon cathode materials for Li-ion batteries guided by Clarif theory. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19137-19143	13	47
196	High Carrier Mobility and Pronounced Light Absorption in Methyl-Terminated Germanene: Insights from First-Principles Computations. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 4252-8	6.4	41
195	Reduced graphene oxide-supported TiO <sub>2</sub> fiber bundles with mesostructures as anode materials for lithium-ion batteries. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 14454-9	4.8	16
194	Stable layered P3/P2 Na <sub>0.66</sub> Co <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> cathode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20708-20714	13	129
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191	TiO <sub>2</sub> -B nanorods on reduced graphene oxide as anode materials for Li ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 507-10	5.8	57
190	The First Introduction of Graphene to Rechargeable Li/CO <sub>2</sub> Batteries. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6650-6653	3.6	31
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188	The First Introduction of Graphene to Rechargeable Li-CO <sub>2</sub> Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6550-3	16.4	245
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173	Porous hollow $\text{LiCoMnO}_4$ microspheres as cathode materials for 5V lithium ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 247, 794-798	8.9	27
172	Pre-lithiated graphene nanosheets as negative electrode materials for Li-ion capacitors with high power and energy density. <i>Journal of Power Sources</i> , <b>2014</b> , 264, 108-113	8.9	130
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169	Ultrasmall $\text{MnO}@$ N-rich carbon nanosheets for high-power asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12519	13	79
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