

Ge-Ping Yin

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.

346
papers

15,162
citations

62
h-index

108
g-index

355
ext. papers

17,569
ext. citations

8.9
avg, IF

6.83
L-index

#	Paper	IF	Citations
346	Crystallographic engineering to reduce diffusion barrier for enhanced intercalation pseudocapacitance of TiNb ₂ O ₇ in fast-charging batteries. <i>Energy Storage Materials</i> , 2022 , 47, 178-178	19.4	3
345	Layered porous silicon encapsulated in carbon nanotube cage as ultra-stable anode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2022 , 431, 133982	14.7	5
344	Tailoring lithium-peroxide reaction kinetics with CuN ₂ C ₂ single-atom moieties for lithium-oxygen batteries. <i>Nano Energy</i> , 2022 , 93, 106810	17.1	2
343	Molecular bridges stabilize lithium metal anode and solid-state electrolyte interface. <i>Chemical Engineering Journal</i> , 2022 , 432, 134271	14.7	0
342	Regulating Li deposition by constructing homogeneous LiF protective layer for high-performance Li metal anode. <i>Chemical Engineering Journal</i> , 2022 , 427, 131625	14.7	6
341	Tuning the phase evolution pathway of LiNi _{0.5} Mn _{1.5} O ₄ synthesis from binary intermediates to ternary intermediates with thermal regulating agent. <i>Journal of Energy Chemistry</i> , 2022 , 65, 62-70	12	0
340	Single-Atom Tailored Hierarchical Transition Metal Oxide Nanocages for Efficient Lithium Storage.. <i>Small</i> , 2022 , e2200367	11	2
339	Poly (vinyl ethylene carbonate)-based dual-salt gel polymer electrolyte enabling high voltage lithium metal batteries. <i>Chemical Engineering Journal</i> , 2022 , 437, 135419	14.7	1
338	Recent progress of Prussian blue analogues as cathode materials for nonaqueous sodium-ion batteries. <i>Coordination Chemistry Reviews</i> , 2022 , 460, 214478	23.2	7
337	Interface defect chemistry enables dendrite-free lithium metal anodes. <i>Chemical Engineering Journal</i> , 2022 , 437, 135109	14.7	1
336	Tailoring the stability of Fe-N-C via pyridinic nitrogen for acid oxygen reduction reaction. <i>Chemical Engineering Journal</i> , 2022 , 437, 135320	14.7	3
335	A dynamic Ni(OH) ₂ -NiOOH/NiFeP heterojunction enabling high-performance E-upgrading of hydroxymethylfurfural. <i>Applied Catalysis B: Environmental</i> , 2022 , 311, 121357	21.8	6
334	Stable silicon anodes realized by multifunctional dynamic cross-linking structure with self-healing chemistry and enhanced ionic conductivity for lithium-ion batteries. <i>Nano Energy</i> , 2022 , 99, 107334	17.1	4
333	Enabling the conventional TFSI-based electrolytes for high-performance Mg/Li hybrid batteries by Mg electrode interfacial regulation. <i>Chemical Engineering Journal</i> , 2022 , 444, 136592	14.7	1
332	Hierarchical NiMn/NiMn-LDH/ppy-C induced by a novel phase-transformation activation process for long-life supercapacitor.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 1020-1028	9.3	0
331	Pt/C-TiO ₂ as Oxygen Reduction Electrocatalysts against Sulfur Poisoning. <i>Catalysts</i> , 2022 , 12, 571	4	
330	Achieving high-energy-density magnesium/sulfur battery via a passivation-free Mg-Li alloy anode. <i>Energy Storage Materials</i> , 2022 , 50, 380-386	19.4	0

329	Substrate strain tunes operando geometric distortion and oxygen reduction activity of CuNC single-atom sites. <i>Nature Communications</i> , 2021 , 12, 6335	17.4	20
328	Stable lithium anode enabled by biphasic hybrid SEI layer toward high-performance lithium metal batteries. <i>Chemical Engineering Journal</i> , 2021 , 433, 133570	14.7	1
327	π-Conjugation Induced Anchoring of Ferrocene on Graphdiyne Enable Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Advanced Science</i> , 2021 , e2103964	13.6	1
326	Chelated electrolytes for divalent metal ions. <i>Science</i> , 2021 , 374, 156	33.3	1
325	Dendrites in Solid-State Batteries: Ion Transport Behavior, Advanced Characterization, and Interface Regulation. <i>Advanced Energy Materials</i> , 2021 , 11, 2003250	21.8	22
324	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. <i>Advanced Functional Materials</i> , 2021 , 31, 2010526	15.6	13
323	Engineering Molecular Polymerization for Template-Free SiO _x /C Hollow Spheres as Ultrastable Anodes in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101145	15.6	18
322	A Review of Magnesium Aluminum Chloride Complex Electrolytes for Mg Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100650	15.6	7
321	A Scalable Cathode Chemical Prelithiation Strategy for Advanced Silicon-Based Lithium Ion Full Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11985-11994	9.5	11
320	Phosphorus-doped carbon as cathode material for high energy nonaqueous Li-O ₂ batteries. <i>Applied Surface Science</i> , 2021 , 543, 148864	6.7	6
319	Identifying the aging mechanism in multiple overdischarged LiCoO ₂ /mesocarbon microbeads batteries. <i>Ceramics International</i> , 2021 ,	5.1	3
318	Electrochemical behaviors in the anode of LiCoO ₂ /mesocarbon microbead battery and their impacts on the capacity degradation. <i>Ionics</i> , 2021 , 27, 2353-2365	2.7	1
317	Interface Reinforcement of a Prussian Blue Cathode Using a Non-Flammable Co-Solvent Cresyl Diphenyl Phosphate for a High-Safety Na-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5809-5817	8.3	3
316	Formation of an Artificial Mg-Permeable Interphase on Mg Anodes Compatible with Ether and Carbonate Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24565-24574	9.5	7
315	An Interphase-enhanced Liquid Na-K Anode for Dendrite-free Alkali Metal Batteries Enabled by SiCl ₄ Electrolyte Additive. <i>Energy Storage Materials</i> , 2021 , 37, 199-206	19.4	9
314	Immobilization and kinetic promotion of polysulfides by molybdenum carbide in lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 411, 128563	14.7	14
313	LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /graphite batteries storing at high temperature: Capacity fading and raveling of aging mechanisms. <i>Journal of Power Sources</i> , 2021 , 496, 229858	8.9	6
312	Realizing Solid-Phase Reaction in LiS Batteries via Localized High-Concentration Carbonate Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2101004	21.8	9

311	Stabilizing Lithium Metal Anode Enabled by a Natural Polymer Layer for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28252-28260	9.5	6
310	Re-Looking into the Active Moieties of Metal X-ides (X = Phosph-, Sulf-, Nitr-, and Carb-) Toward Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2102918	15.6	24
309	In-situ thermal polymerization boosts succinonitrile-based composite solid-state electrolyte for high performance Li-metal battery. <i>Journal of Power Sources</i> , 2021 , 496, 229861	8.9	11
308	Deactivated Pt Electrocatalysts for the Oxygen Reduction Reaction: The Regeneration Mechanism and a Regenerative Protocol. <i>ACS Catalysis</i> , 2021 , 11, 9293-9299	13.1	2
307	A bifunctional perovskite oxide catalyst: The triggered oxygen reduction/evolution electrocatalysis by moderated Mn-Ni co-doping. <i>Journal of Energy Chemistry</i> , 2021 , 54, 217-224	12	12
306	Unraveling the advances of trace doping engineering for potassium ion battery anodes via tomography. <i>Journal of Energy Chemistry</i> , 2021 , 58, 355-363	12	9
305	Interface Issues and Challenges in All-Solid-State Batteries: Lithium, Sodium, and Beyond. <i>Advanced Materials</i> , 2021 , 33, e2000721	24	84
304	Improving electrochemical performance of rechargeable magnesium batteries with conditioning-free Mg-Cl complex electrolyte. <i>Chemical Engineering Journal</i> , 2021 , 403, 126398	14.7	12
303	Intercalation pseudocapacitive electrochemistry of Nb-based oxides for fast charging of lithium-ion batteries. <i>Nano Energy</i> , 2021 , 81, 105635	17.1	21
302	Proof-of-concept fabrication of carbon structure in Cu ₂ Ni catalysts of both high ORR activity and stability. <i>Carbon</i> , 2021 , 174, 683-692	10.4	9
301	An interface-reinforced rhombohedral Prussian blue analogue in semi-solid state electrolyte for sodium-ion battery. <i>Energy Storage Materials</i> , 2021 , 36, 99-107	19.4	14
300	Novel carbon structures as highly stable supports for electrocatalysts in acid media: regulating the oxygen functionalization behavior of carbon. <i>New Journal of Chemistry</i> , 2021 , 45, 10802-10809	3.6	0
299	Reversible Silicon Anodes with Long Cycles by Multifunctional Volumetric Buffer Layers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4093-4101	9.5	12
298	Voltage hysteresis of magnesium anode: Taking magnesium-sulfur battery as an example. <i>Electrochimica Acta</i> , 2021 , 369, 137685	6.7	4
297	Flame-Retardant and Polysulfide-Suppressed Ether-Based Electrolytes for High-Temperature Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38296-38304	9.5	0
296	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for lithium sulfur batteries in carbonate electrolyte. <i>Chemical Engineering Journal</i> , 2021 , 418, 129410	14.7	12
295	An armor-like artificial solid electrolyte interphase layer for high performance lithium-sulfur batteries. <i>Applied Materials Today</i> , 2021 , 24, 101108	6.6	2
294	Photoelectrochemistry-driven selective hydroxyl oxidation of polyols: Synergy between Au nanoparticles and C ₃ N ₄ nanosheets. <i>Chem Catalysis</i> , 2021 , 1, 1260-1260		3

293	Unraveling the reaction mechanism of low dose Mn dopant in Ni(OH) ₂ supercapacitor electrode. <i>Journal of Energy Chemistry</i> , 2021 , 61, 497-506	12	12
292	An artificial interphase enables the use of Mg(TFSI) ₂ -based electrolytes in magnesium metal batteries. <i>Chemical Engineering Journal</i> , 2021 , 426, 130751	14.7	12
291	Monovacancy Coupled Pyridinic N Site Enables Surging Oxygen Reduction Activity of Metal-Free CN _x Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1264-1271	8.3	2
290	Interrelated interfacial issues between a Li ₇ La ₃ Zr ₂ O ₁₂ -based garnet electrolyte and Li anode in the solid-state lithium battery: a review. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5952-5979	13	15
289	Polyvinylpyrrolidone-Coordinated Single-Site Platinum Catalyst Exhibits High Activity for Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15902-15907	16.4	38
288	Bifunctional LaMnCoO Perovskite Oxide Catalyst for Oxygen Reduction and Evolution Reactions: The Optimized e ⁻ Electronic Structures by Manganese Dopant. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24717-24725	9.5	34
287	Polyvinylpyrrolidone-Coordinated Single-Site Platinum Catalyst Exhibits High Activity for Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 16036-16041	3.6	7
286	State-of-health estimation for satellite batteries based on the actual operating parameters □ Health indicator extraction from the discharge curves and state estimation. <i>Journal of Energy Storage</i> , 2020 , 31, 101490	7.8	13
285	Surface nitrided and carbon coated TiNb ₂ O ₇ anode material with excellent performance for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155241	5.7	10
284	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. <i>Nature Communications</i> , 2020 , 11, 3050	17.4	97
283	Low-Temperature Solution Synthesis of Black Phosphorus from Red Phosphorus: Crystallization Mechanism and Lithium Ion Battery Applications. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2708-2714	6.4	25
282	Active and Stable Pt ₃ Ni Alloy Octahedra Catalyst for Oxygen Reduction via Near-Surface Atomical Engineering. <i>ACS Catalysis</i> , 2020 , 10, 4205-4214	13.1	47
281	Perovskite LaCoMnO with Tunable Defect and Surface Structures as Cathode Catalysts for Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10452-10460	9.5	11
280	Superior Electrochemical Performance of WNb ₂ O ₈ Nanorods Triggered by Ultra-Efficient Li ⁺ Diffusion. <i>ChemistrySelect</i> , 2020 , 5, 1209-1213	1.8	5
279	Unraveling the effect of short-term high-temperature storage on the performance and thermal stability of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ /graphite battery. <i>Journal of Power Sources</i> , 2020 , 459, 227842	8.9	7
278	Constructing an inorganic/organic mixed protective film for low-cost fabrication of stable lithium metal anode. <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152862	5.7	6
277	A dual-salt coupled fluoroethylene carbonate succinonitrile-based electrolyte enables Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2066-2073	13	35
276	Improving electrochemical performance of Nano-Si/N-doped carbon through tuning the microstructure from two dimensions to three dimensions. <i>Electrochimica Acta</i> , 2020 , 332, 135507	6.7	15

275	Se-doped carbon as highly stable cathode material for high energy nonaqueous Li-O ₂ batteries. <i>Chemical Engineering Science</i> , 2020 , 214, 115413	4.4	8
274	Unraveling the Relationship between Ti ⁴⁺ Doping and Li ⁺ Mobility Enhancement in Ti ⁴⁺ Doped Li ₃ V ₂ (PO ₄) ₃ . <i>ACS Applied Energy Materials</i> , 2020 , 3, 715-722	6.1	6
273	Capacity degradation mechanism and improvement actions for 4 V-class all-solid-state lithium-metal polymer batteries. <i>Chemical Engineering Journal</i> , 2020 , 392, 123665	14.7	22
272	Sulfur Dioxide-Tolerant Bimetallic PtRu Catalyst toward Oxygen Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1295-1301	8.3	10
271	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
270	Structural Distortion Induced by Manganese Activation in a Lithium-Rich Layered Cathode. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14966-14973	16.4	35
269	Propionic acid-assisted surfactant-free synthesis of icosahedral Pt ₃ Pd nanoparticles with enhanced electrochemical performance. <i>Ionic</i> s, 2020 , 26, 5697-5703	2.7	1
268	Facile carbon fiber-sewed high areal density electrode for lithium sulfur batteries. <i>Chemical Communications</i> , 2020 , 56, 10758-10761	5.8	6
267	2D surface induced self-assembly of Pd nanocrystals into nanostrings for enhanced formic acid electrooxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17128-17135	13	5
266	Inducing uniform lithium nucleation by integrated lithium-rich li-in anode with lithiophilic 3D framework. <i>Energy Storage Materials</i> , 2020 , 33, 423-431	19.4	26
265	Enabling Highly Stable LiO ₂ Batteries with Full Discharge/Charge Capability: The Porous Binder- and Carbon-Free IrNi Nanosheet Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16115-16123	8.3	2
264	The stable cycling of a high-capacity Bi anode enabled by an in situ-generated LiPO transition layer in a sulfide-based all-solid-state battery. <i>Chemical Communications</i> , 2020 , 56, 15458-15461	5.8	4
263	Synergistic engineering of defects and architecture in Co ₃ O ₄ @C nanosheets toward Li/Na ion batteries with enhanced pseudocapacitances. <i>Nano Energy</i> , 2020 , 78, 105366	17.1	53
262	DFT and experimental study of nano red phosphorus anchoring on sulfurized polyacrylonitrile for lithium-ion batteries. <i>Chemical Communications</i> , 2020 , 56, 12857-12860	5.8	3
261	Black phosphorus-modified sulfurized polyacrylonitrile with high C-rate and cycling performance in ether-based electrolyte for lithium sulfur batteries. <i>Chemical Communications</i> , 2020 , 56, 12797-12800	5.8	11
260	Unraveling the Promotion Effects of a Soluble Cobaltocene Catalyst with Respect to Li-O Battery Discharge. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7028-7034	6.4	9
259	Uncovering the underlying science behind dimensionality in the potassium battery regime. <i>Energy Storage Materials</i> , 2020 , 25, 416-425	19.4	19
258	A Novel Spherical Boron Phosphide as a High-Efficiency Overall Water Splitting Catalyst: A Density Functional Theory Study. <i>Catalysis Letters</i> , 2020 , 150, 544-554	2.8	3

257	Solvate ionic liquid boosting favorable interfaces kinetics to achieve the excellent performance of Li ₄ Ti ₅ O ₁₂ anodes in Li ₁₀ GeP ₂ S ₁₂ based solid-state batteries. <i>Chemical Engineering Journal</i> , 2020 , 382, 123046	14.7	5
256	In-situ formed free-standing Ir nanocatalysts as carbon- and binder-free cathode for rechargeable nonaqueous Li ₂ O ₂ batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 155009	5.7	5
255	High loading single-atom Cu dispersed on graphene for efficient oxygen reduction reaction. <i>Nano Energy</i> , 2019 , 66, 104088	17.1	88
254	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
253	A flexible copper sulfide @ multi-walled carbon nanotubes cathode for advanced magnesium-lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 239-246	9.3	23
252	Enhancing high-voltage performances of nickel-based cathode material via aluminum and progressive concentration gradient modification. <i>Electrochimica Acta</i> , 2019 , 317, 459-467	6.7	5
251	Direct dimethyl ether fuel cells with low platinum-group-metal loading at anode: Investigations of operating temperatures and anode Pt/Ru ratios. <i>Journal of Power Sources</i> , 2019 , 433, 126690	8.9	9
250	Scalable mesoporous silicon microparticles composed of interconnected nanoplates for superior lithium storage. <i>Chemical Engineering Journal</i> , 2019 , 375, 121923	14.7	21
249	Ni-MOF derived NiO/C nanospheres grown in situ on reduced graphene oxide towards high performance hybrid supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019 , 801, 158-165	5.7	38
248	Insights into enhanced sodium ion storage mechanism in Fe ₃ S ₄ : The coupling of surface chemistry, microstructural regulation and 3D electronic transport. <i>Nano Energy</i> , 2019 , 62, 384-392	17.1	13
247	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
246	Achieving long-life Prussian blue analogue cathode for Na-ion batteries via triple-cation lattice substitution and coordinated water capture. <i>Nano Energy</i> , 2019 , 61, 201-210	17.1	63
245	Investigating the Structure of an Active Material/Carbon Interface in the Monoclinic Li ₃ V ₂ (PO ₄) ₃ /C Composite Cathode. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3692-3702	6.1	6
244	Electrochemically-driven interphase conditioning of magnesium electrode for magnesium sulfur batteries. <i>Journal of Energy Chemistry</i> , 2019 , 37, 215-219	12	17
243	Evaluation of the effect of additive group five elements on the properties of Pb-Ca-Sn-Al alloy as the positive grid for lead-acid batteries. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 1715-1725	2.6	3
242	Progressive concentration gradient nickel-rich oxide cathode material for high-energy and long-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7728-7735	13	38
241	Amorphous carbon-encapsulated Si nanoparticles loading on MCMB with sandwich structure for lithium ion batteries. <i>Electrochimica Acta</i> , 2019 , 306, 590-598	6.7	31
240	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for room-temperature sodium/potassium sulfur batteries. <i>Chemical Communications</i> , 2019 , 55, 5267-5270	5.8	58

- 239 Synthesis of Well-Defined Pt-Based Catalysts for Methanol Oxidation Reaction Based on Electron Hole Separation Effects. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8597-8603 8.3 6
- 238 Improved Electrochemical Performance of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Material by Coating of Graphene Nanodots. *Journal of the Electrochemical Society*, **2019**, 166, A1038-A1044 3.9 16
- 237 Three-dimensional layered double hydroxides on carbon nanofibers: The engineered mass transfer channels and active sites towards oxygen evolution reaction. *Applied Surface Science*, **2019**, 485, 41-47 6.7 18
- 236 A porous N-doped carbon aggregate as sulfur host for lithium-sulfur batteries. *Ionics*, **2019**, 25, 2131-2138 3.7 5
- 235 Structural Modulation of Coordination Polymers by Heterometallic Approach. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2019**, 645, 1062-1066 1.3
- 234 Scalable submicron/micron silicon particles stabilized in a robust graphite-carbon architecture for enhanced lithium storage. *Journal of Colloid and Interface Science*, **2019**, 555, 783-790 9.3 13
- 233 Trimetallic PtPdNi octahedral nanocages with subnanometer thick-wall towards high oxygen reduction reaction. *Nano Energy*, **2019**, 64, 103890 17.1 25
- 232 Unraveling the Origins of the "Unreactive Core" in Conversion Electrodes to Trigger High Sodium-Ion Electrochemistry. *ACS Energy Letters*, **2019**, 4, 2007-2012 20.1 25
- 231 Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. *Angewandte Chemie - International Edition*, **2019**, 58, 18647-18653 16.4 29
- 230 Pseudocapacitive Li⁺ storage boosts ultrahigh rate performance of structure-tailored CoFe₂O₄@Fe₂O₃ hollow spheres triggered by engineered surface and near-surface reactions. *Nano Energy*, **2019**, 66, 104179 17.1 30
- 229 Engineering of Nitrogen Coordinated Single Cobalt Atom Moieties for Oxygen Electroreduction. *ACS Applied Materials & Interfaces*, **2019**, 11, 41258-41266 9.5 32
- 228 Layer-by-Layer Engineered Silicon-Based Sandwich Nanomat as Flexible Anode for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 39970-39978 9.5 17
- 227 Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. *Angewandte Chemie*, **2019**, 131, 18820-18826 3.6 4
- 226 Tuning the electronic structure of platinum nanocrystals towards high efficient ethanol oxidation. *Chinese Journal of Catalysis*, **2019**, 40, 1904-1911 11.3 7
- 225 A quasi-solid-state LiB battery with high energy density, superior stability and safety. *Journal of Materials Chemistry A*, **2019**, 7, 6533-6542 13 24
- 224 Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode Material for Lithium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803963 21.8 143
- 223 Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. *Small*, **2019**, 15, e1904740 11 69
- 222 Understanding the Structural Evolution and Lattice Water Movement for Rhombohedral Nickel Hexacyanoferrate upon Sodium Migration. *ACS Applied Materials & Interfaces*, **2019**, 11, 46705-46713 9.5 17

221	Enhanced Electrochemical Performance of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material via Li ₂ TiO ₃ Nanoparticles Coating. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A143-A150	3.9	22
220	Superior catalytic performance and CO tolerance of Ru@Pt/C-TiO ₂ electrocatalyst toward methanol oxidation reaction. <i>Applied Surface Science</i> , 2019 , 473, 943-950	6.7	31
219	Pt decorated Ti ₃ C ₂ MXene for enhanced methanol oxidation reaction. <i>Ceramics International</i> , 2019 , 45, 2411-2417	5.1	38
218	A three-dimensional silicon/nitrogen-doped graphitized carbon composite as high-performance anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 190-197	5.7	40
217	Palladium nanocrystals-embedded mesoporous hollow carbon spheres with enhanced electrochemical kinetics for high performance lithium sulfur batteries. <i>Carbon</i> , 2019 , 143, 878-889	10.4	54
216	Enhanced Methanol Oxidation in Acid Media on Pt/S, P Co-doped Graphene with 3D Porous Network Structure Engineering. <i>ChemElectroChem</i> , 2019 , 6, 1157-1165	4.3	7
215	CoS/N-doped carbon core/shell nanocrystals as an anode material for potassium-ion storage. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 27-32	2.6	20
214	A multifunctional silicotungstic acid-modified Li-rich manganese-based cathode material with excellent electrochemical properties. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 101-108	2.6	1
213	ZIF-8 with Ferrocene Encapsulated: A Promising Precursor to Single-Atom Fe Embedded Nitrogen-Doped Carbon as Highly Efficient Catalyst for Oxygen Electroreduction. <i>Small</i> , 2018 , 14, e1704282	11.2	148
212	Enhanced electrochemical performance of Li ₄ Ti ₅ O ₁₂ through in-situ coating 70Li ₂ S-30P ₂ S ₅ solid electrolyte for all-solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 8-13	5.7	17
211	Enhanced hydrogen evolution reaction activity of hydrogen-annealed vertical MoS nanosheets.. <i>RSC Advances</i> , 2018 , 8, 14369-14376	3.7	20
210	Unravelling the Enhanced High-Temperature Performance of Lithium-Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. <i>ChemElectroChem</i> , 2018 , 5, 1569-1575	4.3	26
209	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 381, 156-163	8.9	60
208	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 341, 37-46	14.7	66
207	3D hierarchical Co/CoO/C nanocomposites with mesoporous microsheets grown on nickel foam as cathodes for Li-O ₂ batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 378-384	5.7	11
206	The degradation of LiCoO ₂ /graphite batteries at different rates. <i>Electrochimica Acta</i> , 2018 , 279, 204-212	6.7	21
205	Polymeric multilayer-modified manganese dioxide with hollow porous structure as sulfur host for lithium sulfur batteries. <i>Electrochimica Acta</i> , 2018 , 259, 440-448	6.7	23
204	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. <i>Energy Storage Materials</i> , 2018 , 11, 197-204	19.4	82

203	Pseudocapacitive Li ⁺ intercalation in porous Ti ₂ Nb ₁₀ O ₂₉ nanospheres enables ultra-fast lithium storage. <i>Energy Storage Materials</i> , 2018 , 11, 57-66	19.4	119
202	Pt nanoparticles supported by sulfur and phosphorus co-doped graphene as highly active catalyst for acidic methanol electrooxidation. <i>Electrochimica Acta</i> , 2018 , 285, 202-213	6.7	28
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200	Accelerated aging and degradation mechanism of LiFePO ₄ /graphite batteries cycled at high discharge rates.. <i>RSC Advances</i> , 2018 , 8, 25695-25703	3.7	21
199	Excellent room-temperature performance of lithium metal polymer battery with enhanced interfacial compatibility. <i>Electrochimica Acta</i> , 2018 , 283, 1261-1268	6.7	6
198	Iron sulfide/carbon hybrid cluster as an anode for potassium-ion storage. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 1086-1091	5.7	39
197	Influence of accidental overcharging on the performance and degradation mechanisms of LiCoO ₂ /mesocarbon microbead battery. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 3743-3750	2.6	5
196	Free-Standing Sandwich-Type Graphene/Nanocellulose/Silicon Laminate Anode for Flexible Rechargeable Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29638-29646	9.5	48
195	Electrocatalytic valorisation of biomass derived chemicals. <i>Catalysis Science and Technology</i> , 2018 , 8, 3216-3232	5.5	73
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190	Insights into the role of oxygen functional groups and defects in the rechargeable nonaqueous Li ₂ O ₂ batteries. <i>Electrochimica Acta</i> , 2018 , 292, 838-845	6.7	16
189	Correlating the electrocatalytic stability of platinum monolayer catalysts with their structural evolution in the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20725-20736	13	15
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182	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. <i>Chemistry of Materials</i> , 2017 , 29, 2141-2149	9.6	31
181	Unravelling the origin of irreversible capacity loss in NaNiO ₂ for high voltage sodium ion batteries. <i>Nano Energy</i> , 2017 , 34, 215-223	17.1	69
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179	Facilitating the redox reaction of polysulfides by an electrocatalytic layer-modified separator for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10936-10945	13	65
178	Improved high-voltage performance of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode with Tris(2,2,2-trifluoroethyl) phosphite as electrolyte additive. <i>Electrochimica Acta</i> , 2017 , 243, 72-81	6.7	22
177	Pseudocapacitive Li ⁺ intercalation in ZnO/ZnO@C composites enables high-rate lithium-ion storage and stable cyclability. <i>Ceramics International</i> , 2017 , 43, 11998-12004	5.1	20
176	Two isomorphous coordination polymer-derived metal oxides as high-performance anodes for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017 , 41, 6187-6194	3.6	9
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174	Changes of Degradation Mechanisms of LiFePO ₄ /Graphite Batteries Cycled at Different Ambient Temperatures. <i>Electrochimica Acta</i> , 2017 , 237, 248-258	6.7	36
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172	Enhancing electrochemical detection of dopamine via dumbbell-like FePt-FeO nanoparticles. <i>Nanoscale</i> , 2017 , 9, 1022-1027	7.7	31
171	Lithium Cobalt Oxides Functionalized by Conductive Al-doped ZnO Coating as Cathode for High-performance Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2017 , 224, 96-104	6.7	24
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159	Clew-like N-doped multiwalled carbon nanotube aggregates derived from metal-organic complexes for lithium-sulfur batteries. <i>Carbon</i> , 2017 , 122, 635-642	10.4	33
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