

Renjie Chen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5746421/renjie-chen-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

293
papers

14,616
citations

70
h-index

108
g-index

300
ext. papers

18,871
ext. citations

11.8
avg. IF

7.11
L-index

#	Paper	IF	Citations
293	Synergetic Anion Vacancies and Dense Heterointerfaces into Bimetal Chalcogenide Nanosheet Arrays for Boosting Electrocatalysis Sulfur Conversion.. <i>Advanced Materials</i> , 2022 , e2109552	24	9
292	Toward Highly Stable Anode for Secondary Batteries: Employing TiO Shell as Elastic Buffering Matrix for FeO Nanoparticles.. <i>Small</i> , 2022 , e2105713	11	3
291	Pyridine-grafted nitrogen-doped carbon nanotubes achieving efficient electroreduction of CO ₂ to CO within a wide electrochemical window. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1852-1860	13	1
290	P-doped NiTe with Te-vacancies in Lithium-Sulfur Batteries Prevents Shuttling and Promotes Polysulfide Conversion.. <i>Advanced Materials</i> , 2022 , e2106370	24	17
289	Life Cycle Assessment of Lithium-ion Batteries: A Critical Review. <i>Resources, Conservation and Recycling</i> , 2022 , 180, 106164	11.9	7
288	Defects and sulfur-doping design of porous carbon spheres for high-capacity potassium-ion storage. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 682-689	13	7
287	Establishing Thermal Infusion Method for Stable Zinc Metal Anodes in Aqueous Zinc-ion Batteries.. <i>Advanced Materials</i> , 2022 , e2200782	24	10
286	Metal-organic framework derived cobalt phosphide nanoparticles encapsulated within hierarchical hollow carbon superstructure for stable sodium storage. <i>Chemical Engineering Journal</i> , 2022 , 438, 134279-134284	14.7	1
285	Environmental and economic assessment of structural repair technologies for spent lithium-ion battery cathode materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 942-952	3.1	1
284	Stable Li/Cu ₂ O composite anodes enabled by a 3D conductive skeleton with lithiophilic nanowire arrays. <i>Journal of Power Sources</i> , 2022 , 536, 231374	8.9	0
283	A Designed Lithiophilic Carbon Channel on Separator to Regulate Lithium Deposition Behavior. <i>Small</i> , 2021 , e2104390	11	0
282	Closed-loop selective recycling process of spent LiNiCoMnO batteries by thermal-driven conversion. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127757	12.8	3
281	A panoramic view of Li ₇ P ₃ S ₁₁ solid electrolytes synthesis, structural aspects and practical challenges for all-solid-state lithium batteries. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 39, 16-16	3.2	1
280	High-Performance Aqueous Zinc Batteries Based on Organic/Organic Cathodes Integrating Multiredox Centers. <i>Advanced Materials</i> , 2021 , e2106469	24	10
279	Encapsulation of Metallic Zn in a Hybrid MXene/Graphene Aerogel as a Stable Zn Anode for Foldable Zn-Ion Batteries. <i>Advanced Materials</i> , 2021 , e2106897	24	26
278	From Flower-Like to Spherical Deposition: A GCNT Aerogel Scaffold for Fast-Charging Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2102454	21.8	2
277	Lightweight Shield to Stabilize Li Metal Anodes at High Current Rates. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11878-11885	6.1	1

276	Rational Design of MOF-Based Materials for Next-Generation Rechargeable Batteries. <i>Nano-Micro Letters</i> , 2021 , 13, 203	19.5	20
275	An Antipulverization and High-Continuity Lithium Metal Anode for High-Energy Lithium Batteries. <i>Advanced Materials</i> , 2021 , e2105029	24	2
274	Engineering Catalytic CoSe-ZnSe Heterojunctions Anchored on Graphene Aerogels for Bidirectional Sulfur Conversion Reactions. <i>Advanced Science</i> , 2021 , e2103456	13.6	9
273	Enhancing Interfacial Contact in Solid-State Batteries with a Gradient Composite Solid Electrolyte. <i>Small</i> , 2021 , 17, e2006578	11	8
272	Highly selective metal recovery from spent lithium-ion batteries through stoichiometric hydrogen ion replacement. <i>Frontiers of Chemical Science and Engineering</i> , 2021 , 15, 1243-1256	4.5	4
271	Synergy Effect of Trimethyl Borate on Protecting High-Voltage Cathode Materials in Dual-Additive Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21459-21466	9.5	9
270	Bimetallic Antimony-Vanadium Oxide Nanoparticles Embedded in Graphene for Stable Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21127-21137	9.5	1
269	Competitive Solvation Enhanced Stability of Lithium Metal Anode in Dual-Salt Electrolyte. <i>Nano Letters</i> , 2021 , 21, 3310-3317	11.5	31
268	Lithium-metal host anodes with top-to-bottom lithiophilic gradients for prolonged cycling of rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2021 , 495, 229773	8.9	5
267	Advanced Li-S Batteries Enabled by a Biomimetic Polysulfide-Engulfing Net. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23811-23821	9.5	0
266	Enhanced Electrochemical Kinetics with Highly Dispersed Conductive and Electrocatalytic Mediators for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021 , 33, e2100810	24	35
265	Toward uniform Li plating/stripping by optimizing Li-ion transport and nucleation of engineered graphene aerogel. <i>Chemical Engineering Journal</i> , 2021 , 427, 130967	14.7	4
264	Improved Electrochemical Performance of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials Induced by a Facile Polymer Coating for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6205-6213	6.1	2
263	Recovery and Reuse of Anode Graphite from Spent Lithium-Ion Batteries via Citric Acid Leaching. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6261-6268	6.1	12
262	Strong Interfacial Adhesion between the LiS Cathode and a Functional LiPCeSCL Solid-State Electrolyte Endowed Long-Term Cycle Stability to All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28270-28280	9.5	4
261	Ultrathin Surface Coating of Nitrogen-Doped Graphene Enables Stable Zinc Anodes for Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2101649	24	62
260	Self-Assembly of 0D-2D Heterostructure Electrocatalyst from MOF and MXene for Boosted Lithium Polysulfide Conversion Reaction. <i>Advanced Materials</i> , 2021 , 33, e2101204	24	38
259	Lithium Induced Nano-Sized Copper with Exposed Lithiophilic Surfaces to Achieve Dense Lithium Deposition for Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2021 , 31, 2006950	15.6	33

258	A novel air-stable $\text{Li}_7\text{Sb}_{0.05}\text{P}_{2.95}\text{S}_{10.5}\text{I}_{0.5}$ superionic conductor glass-ceramics electrolyte for all-solid-state lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 407, 127149	14.7	20
257	A novel nanocomposite electrolyte with ultrastable interface boosts long life solid-state lithium metal batteries. <i>Journal of Power Sources</i> , 2021 , 484, 229195	8.9	5
256	Insight into effects of divalent cation substitution stabilizing P2-Type layered cathode materials for sodium-ion batteries. <i>Electrochimica Acta</i> , 2021 , 368, 137614	6.7	6
255	Chickpea derived Co nanocrystal encapsulated in 3D nitrogen-doped mesoporous carbon: Pressure cooking synthetic strategy and its application in lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2021 , 585, 328-336	9.3	11
254	A lithium-ion battery recycling technology based on a controllable product morphology and excellent performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18623-18631	13	4
253	Regulating the Solvation Structure of Nonflammable Electrolyte for Dendrite-Free Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 681-687	9.5	10
252	Powering lithium-sulfur batteries by ultrathin sulfurized polyacrylonitrile nanosheets. <i>Nanoscale</i> , 2021 , 13, 16690-16695	7.7	1
251	Sustainable Regeneration of High-Performance $\text{Li}_{1-x}\text{Na}_x\text{CoO}_2$ from Cathode Materials in Spent Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2607-2615	6.1	7
250	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. <i>Nano Letters</i> , 2021 , 21, 2074-2080	11.5	12
249	Fe_2VO_4 Nanoparticles Anchored on Ordered Mesoporous Carbon with Pseudocapacitive Behaviors for Efficient Sodium Storage. <i>Advanced Functional Materials</i> , 2021 , 31, 2009756	15.6	10
248	Hierarchical Triple-Shelled MnCo_2O_4 Hollow Microspheres as High-Performance Anode Materials for Potassium-Ion Batteries. <i>Small</i> , 2021 , 17, e2007597	11	14
247	Space Charge Layer Effect in Sulfide Solid Electrolytes in All-Solid-State Batteries: In-situ Characterization and Resolution. <i>Transactions of Tianjin University</i> , 2021 , 27, 423	2.9	3
246	Local Strong Solvation Electrolyte Trade-Off between Capacity and Cycle Life of Li-O ₂ Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101831	15.6	9
245	Anion-Doped Cobalt Selenide with Porous Architecture for High-Rate and Flexible Lithium-Sulfur Batteries. <i>Small Methods</i> , 2021 , 5, e2100649	12.8	10
244	A Highly Conductive Electrocatalyst Boosting Polysulfide Conversion for LiS Chemistry. <i>ACS Energy Letters</i> , 2021 , 6, 3053-3062	20.1	17
243	Resolving the Structural Defects of Spent Li CoO Particles to Directly Reconstruct High Voltage Performance Cathode for Lithium-Ion Batteries. <i>Small Methods</i> , 2021 , 5, e2100672	12.8	3
242	Cobalt Selenide Hollow Polyhedron Encapsulated in Graphene for High-Performance Lithium/Sodium Storage. <i>Small</i> , 2021 , 17, e2102893	11	13
241	Materials and structure engineering by magnetron sputtering for advanced lithium batteries. <i>Energy Storage Materials</i> , 2021 , 39, 203-224	19.4	15

240	Continuous Conductive Networks Built by Prussian Blue Cubes and Mesoporous Carbon Lead to Enhanced Sodium-Ion Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38202-38212	9.5	5
239	Vertical Channels Design for Polymer Electrolyte to Enhance Mechanical Strength and Ion Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42957-42965	9.5	3
238	Recovery valuable metals from spent lithium-ion batteries via a low-temperature roasting approach: Thermodynamics and conversion mechanism. <i>Journal of Hazardous Materials Advances</i> , 2021 , 1, 100003		0
237	Enhanced Catalytic Conversion of Polysulfide Using 1D CoTe and 2D MXene for Heat-Resistant and Lean-Electrolyte LiS Batteries. <i>Chemical Engineering Journal</i> , 2021 , 132734	14.7	6
236	Mesoscopic TiNbO cages comprised of nanorod units as high-rate lithium-ion battery anode. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 111-117	9.3	7
235	Insight on air-induced degradation mechanism of Li ₇ P ₃ S ₁₁ to design a chemical-stable solid electrolyte with high Li ₂ S utilization in all-solid-state Li/S batteries. <i>Chemical Engineering Journal</i> , 2021 , 425, 130535	14.7	12
234	Tailoring double-layer aromatic polymers with multi-active sites towards high performance aqueous Zn-organic batteries. <i>Materials Horizons</i> , 2021 , 8, 3124-3132	14.4	1
233	P-Doped Ni/NiO Heterostructured Yolk-Shell Nanospheres Encapsulated in Graphite for Enhanced Lithium Storage. <i>Small</i> , 2021 , e2105897	11	3
232	High Pseudocapacitance Boosts Ultrafast, High-Capacity Sodium Storage of 3D Graphene Foam-Encapsulated TiO Architecture. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23939-23950	9.5	14
231	Electrocatalytic Interlayer with Fast Lithium Polysulfides Diffusion for Lithium Sulfur Batteries to Enhance Electrochemical Kinetics under Lean Electrolyte Conditions. <i>Advanced Functional Materials</i> , 2020 , 30, 2000742	15.6	48
230	A Soft Lithiophilic Graphene Aerogel for Stable Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 2002013	15.6	34
229	A Mixed Modified Layer Formed In Situ to Protect and Guide Lithium Plating/Stripping Behavior. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31411-31418	9.5	12
228	A leaf-like Al ₂ O ₃ -based quasi-solid electrolyte with a fast Li ⁺ conductive interface for stable lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7280-7287	13	15
227	From Black Liquor to Green Energy Resource: Positive Electrode Materials for Li-O Battery with High Capacity and Long Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16521-16530	9.5	7
226	MOF-derived lithiophilic CuO nanorod arrays for stable lithium metal anodes. <i>Nanoscale</i> , 2020 , 12, 9416-9422	9.4	19
225	Fast Capacitive Energy Storage and Long Cycle Life in a Deintercalation-Intercalation Cathode Material. <i>Small</i> , 2020 , 16, e1906025	11	2
224	A High-Efficiency CoSe Electrocatalyst with Hierarchical Porous Polyhedron Nanoarchitecture for Accelerating Polysulfides Conversion in Li-S Batteries. <i>Advanced Materials</i> , 2020 , 32, e2002168	24	123
223	Biodegradable Bacterial Cellulose-Supported Quasi-Solid Electrolyte for Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13950-13958	9.5	20

222	Curbing polysulfide shuttling by synergistic engineering layer composed of supported Sn4P3 nanodots electrocatalyst in lithium-sulfur batteries. <i>Nano Energy</i> , 2020 , 70, 104532	17.1	53
221	Cobalt nanoparticles shielded in N-doped carbon nanotubes for high areal capacity Li-S batteries. <i>Chemical Communications</i> , 2020 , 56, 3007-3010	5.8	25
220	Sustainable Recycling Technology for Li-Ion Batteries and Beyond: Challenges and Future Prospects. <i>Chemical Reviews</i> , 2020 , 120, 7020-7063	68.1	358
219	Refining Energy Levels in ReS2 Nanosheets by Low-Valent Transition-Metal Doping for Dual-Boosted Electrochemical Ammonia/Hydrogen Production. <i>Advanced Functional Materials</i> , 2020 , 30, 1907376	15.6	55
218	Revealing of Active Sites and Catalytic Mechanism in N-Coordinated Fe, Ni Dual-Doped Carbon with Superior Acidic Oxygen Reduction than Single-Atom Catalyst. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1404-1410	6.4	70
217	Dendrite-Free Lithium Anodes with a Metal Organic Framework-Derived Cake-like TiO2 Coating on the Separator. <i>ChemElectroChem</i> , 2020 , 7, 2159-2164	4.3	4
216	Conversion Mechanisms of Selective Extraction of Lithium from Spent Lithium-Ion Batteries by Sulfation Roasting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18482-18489	9.5	43
215	A robust cathode of RuO2 nH2O clusters anchored on the carbon nanofibers for ultralong-life lithium-oxygen batteries. <i>Journal of Power Sources</i> , 2020 , 463, 228161	8.9	4
214	Recent advances in nanostructured carbon for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1604-1630	13	60
213	Cathode-doped sulfide electrolyte strategy for boosting all-solid-state lithium batteries. <i>Chemical Engineering Journal</i> , 2020 , 391, 123529	14.7	16
212	Electrode materials derived from plastic wastes and other industrial wastes for supercapacitors. <i>Chinese Chemical Letters</i> , 2020 , 31, 1474-1489	8.1	20
211	In situ formation of a LiF and LiAl alloy anode protected layer on a Li metal anode with enhanced cycle life. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1247-1253	13	31
210	Sodium-Ion Batteries: Toward Rapid-Charging Sodium-Ion Batteries using Hybrid-Phase Molybdenum Sulfide Selenide-Based Anodes (Adv. Mater. 40/2020). <i>Advanced Materials</i> , 2020 , 32, 2070302	24	2
209	In situ formation of a LiSn alloy protected layer for inducing lateral growth of dendrites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23574-23579	13	6
208	Glucose oxidase-based biocatalytic acid-leaching process for recovering valuable metals from spent lithium-ion batteries. <i>Waste Management</i> , 2020 , 114, 166-173	8.6	9
207	Leaching Mechanisms of Recycling Valuable Metals from Spent Lithium-Ion Batteries by a Malonic Acid-Based Leaching System. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8532-8542	6.1	23
206	An "Ether-In-Water" Electrolyte Boosts Stable Interfacial Chemistry for Aqueous Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e2004017	24	42
205	Toward Rapid-Charging Sodium-Ion Batteries using Hybrid-Phase Molybdenum Sulfide Selenide-Based Anodes. <i>Advanced Materials</i> , 2020 , 32, e2003534	24	34

204	Trimming the Bridge of microporous frameworks for bidentate anchoring of polysulfides to stabilize lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19001-19010	13	20
203	A Comprehensive Review of the Advancement in Recycling the Anode and Electrolyte from Spent Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13527-13554	8.3	61
202	Electrolytes for Rechargeable Lithium-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2974-2997	16.4	89
201	Elektrolyte für wiederaufladbare Lithium-Luft-Batterien. <i>Angewandte Chemie</i> , 2020 , 132, 2994-3019	3.6	12
200	Long-life lithium-O ₂ battery achieved by integrating quasi-solid electrolyte and highly active Pt ₃ Co nanowires catalyst. <i>Energy Storage Materials</i> , 2020 , 24, 707-713	19.4	15
199	Enhanced Air Stability and High Li-Ion Conductivity of LiPNbSO Glass-Ceramic Electrolyte for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21548-21558	9.5	37
198	CoS Nanorods as an Electrocatalyst To Enhance Polysulfide Conversion and Alleviate Passivation in Li-S Batteries under Lean Electrolyte Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21701-21708	9.5	12
197	Maintaining structure and voltage stability of Li-rich cathode materials by green water-soluble binders containing Na ⁺ ions. <i>Journal of Alloys and Compounds</i> , 2019 , 811, 152060	5.7	12
196	Low-Temperature Molten-Salt-Assisted Recovery of Valuable Metals from Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16144-16150	8.3	49
195	An MXene/CNTs@P nanohybrid with stable TiDB bonds for enhanced lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21766-21773	13	45
194	A green and effective room-temperature recycling process of LiFePO ₄ cathode materials for lithium-ion batteries. <i>Waste Management</i> , 2019 , 85, 437-444	8.6	50
193	Reducing the overpotential of an aprotic Li-O battery using a conductive graphene interlayer. <i>Chemical Communications</i> , 2019 , 55, 2102-2105	5.8	5
192	Oxygenated Nitrogen-Doped Microporous Nanocarbon as a Permselective Interlayer for Ultrastable Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2019 , 6, 1094-1100	4.3	21
191	A 3D flower-like VO ₂ /MXene hybrid architecture with superior anode performance for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1315-1322	13	63
190	CF@rGO/PPy-S Hybrid Foam with Paper Window-like Microstructure as Freestanding and Flexible Cathode for the Lithium-Sulfur Battery. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4151-4158	6.1	10
189	Stable Conversion Mn ₃ O ₄ Li-Ion Battery Anode Material with Integrated Hierarchical and Core-Shell Structure. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5206-5213	6.1	9
188	Nature-Inspired, Graphene-Wrapped 3D MoS ₂ Ultrathin Microflower Architecture as a High-Performance Anode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22323-22331	9.5	64
187	Polypyrrole-Modified Prussian Blue Cathode Material for Potassium Ion Batteries via In Situ Polymerization Coating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22339-22345	9.5	44

186	Incorporation of CeF ₃ on single-atom dispersed Fe/N/C with oxophilic interface as highly durable electrocatalyst for proton exchange membrane fuel cell. <i>Journal of Catalysis</i> , 2019 , 374, 43-50	7.3	23
185	ElectroThermoMechanical Issues at the Interfaces in Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1900950	15.6	79
184	Freestanding N-Doped Carbon Coated CuO Array Anode for Lithium-Ion and Sodium-Ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1900252	3.5	5
183	Flexible Hydrogel Electrolyte with Superior Mechanical Properties Based on Poly(vinyl alcohol) and Bacterial Cellulose for the Solid-State Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15537-15542	9.5	53
182	Heteroatom Si Substituent Imidazolium-Based Ionic Liquid Electrolyte Boosts the Performance of Dendrite-Free Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12154-12160	9.5	16
181	In situ generated spinel-phase skin on layered Li-rich short nanorods as cathode materials for lithium-ion batteries. <i>Journal of Materials Science</i> , 2019 , 54, 9098-9110	4.3	10
180	All-iron sodium-ion full-cells assembled via stable porous goethite nanorods with low strain and fast kinetics. <i>Nano Energy</i> , 2019 , 60, 294-304	17.1	9
179	A Li ⁺ conductive metal organic framework electrolyte boosts the high-temperature performance of dendrite-free lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9530-9536	13	57
178	Electrolytes and Electrolyte/Electrode Interfaces in Sodium-Ion Batteries: From Scientific Research to Practical Application. <i>Advanced Materials</i> , 2019 , 31, e1808393	24	141
177	An Ionic Liquid/Poly(vinylidene fluoride-co-hexafluoropropylene) Gel-Polymer Electrolyte with a Compatible Interface for Sodium-Based Batteries. <i>ChemElectroChem</i> , 2019 , 6, 2423-2429	4.3	12
176	Synthesizing LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ with novel shell-pore structure for enhanced rate performance. <i>Journal of Alloys and Compounds</i> , 2019 , 789, 736-743	5.7	10
175	Protecting lithium/sodium metal anode with metal-organic framework based compact and robust shield. <i>Nano Energy</i> , 2019 , 60, 866-874	17.1	69
174	Fluffy carbon-coated red phosphorus as a highly stable and high-rate anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11205-11213	13	39
173	Anode Interface Engineering and Architecture Design for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1806532	24	109
172	Hollow NaTi _{1.9} Sn _{0.1} (PO ₄) ₃ @C Nanoparticles for Anodes of Sodium-Ion Batteries with Superior Rate and Cycling Properties. <i>Energy Technology</i> , 2019 , 7, 1900079	3.5	5
171	Distinctive electrochemical performance of novel Fe-based Li-rich cathode material prepared by molten salt method for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2019 , 33, 37-45	12	15
170	Exceptional adsorption and catalysis effects of hollow polyhedra/carbon nanotube confined CoP nanoparticles superstructures for enhanced lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 64, 103965	17.1	92
169	Electrostatic Self-assembly of 0D-2D SnO Quantum Dots/TiCT MXene Hybrids as Anode for Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019 , 11, 65	19.5	83

168	Ion-exchange synthesis of high-energy-density prussian blue analogues for sodium ion battery cathodes with fast kinetics and long durability. <i>Journal of Power Sources</i> , 2019 , 436, 226868	8.9	21
167	Boosting High-Rate Li-S Batteries by an MOF-Derived Catalytic Electrode with a Layer-by-Layer Structure. <i>Advanced Science</i> , 2019 , 6, 1802362	13.6	55
166	Reduced graphene oxide aerogel as stable host for dendrite-free sodium metal anode. <i>Energy Storage Materials</i> , 2019 , 22, 376-383	19.4	54
165	High Sensitivity Flexible Electronic Skin Based on Graphene Film. <i>Sensors</i> , 2019 , 19,	3.8	6
164	Polyethylene waste carbons with a mesoporous network towards highly efficient supercapacitors. <i>Chemical Engineering Journal</i> , 2019 , 366, 313-320	14.7	42
163	Environmentally benign process for selective recovery of valuable metals from spent lithium-ion batteries by using conventional sulfation roasting. <i>Green Chemistry</i> , 2019 , 21, 5904-5913	10	68
162	Confined Growth of Nano-NaV(PO) in Porous Carbon Framework for High-Rate Na-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3107-3115	9.5	31
161	Use of Ce to Reinforce the Interface of Ni-Rich LiNi Co Mn O Cathode Materials for Lithium-Ion Batteries under High Operating Voltage. <i>ChemSusChem</i> , 2019 , 12, 935-943	8.3	71
160	Effect of metal ion concentration in precursor solution on structure and electrochemical performance of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 778, 643-651	5.7	10
159	Layer by Layer Assemble of Colloid Nanomaterial and Functional Multilayer Films for Energy Storage and Conversion 2019 , 255-278		3
158	Bioinspired Controllable Electro-Chemomechanical Coloration Films. <i>Advanced Functional Materials</i> , 2019 , 29, 1806383	15.6	21
157	Bicomponent electrolyte additive excelling fluoroethylene carbonate for high performance Si-based anodes and lithiated Si-S batteries. <i>Energy Storage Materials</i> , 2019 , 20, 388-394	19.4	21
156	Habit plane-driven P2-type manganese-based layered oxide as long cycling cathode for Na-ion batteries. <i>Journal of Power Sources</i> , 2018 , 383, 80-86	8.9	25
155	Philosophy driven rigid-flexible hybrid ionogel electrolyte for high-performance lithium battery. <i>Nano Energy</i> , 2018 , 47, 35-42	17.1	51
154	Designing Realizable and Scalable Techniques for Practical Lithium Sulfur Batteries: A Perspective. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1398-1414	6.4	43
153	Strongly Coupled Carbon Nanosheets/Molybdenum Carbide Nanocluster Hollow Nanospheres for High-Performance Aprotic Li-O Battery. <i>Small</i> , 2018 , 14, e1704366	11	28
152	Boosting Fast Sodium Storage of a Large-Scalable Carbon Anode with an Ultralong Cycle Life. <i>Advanced Energy Materials</i> , 2018 , 8, 1703159	21.8	90
151	A 3D conductive carbon interlayer with ultrahigh adsorption capability for lithium-sulfur batteries. <i>Applied Surface Science</i> , 2018 , 440, 770-777	6.7	46

150	Ionogel Electrolytes for High-Performance Lithium Batteries: A Review. <i>Advanced Energy Materials</i> , 2018 , 8, 1702675	21.8	122
149	Exposing the {010} Planes by Oriented Self-Assembly with Nanosheets To Improve the Electrochemical Performances of Ni-Rich Li[NiCoMn]O Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6407-6414	9.5	67
148	Porous carbon supported atomic iron as electrocatalysts for acidic oxygen reduction reaction. <i>Science Bulletin</i> , 2018 , 63, 213-215	10.6	8
147	Porous carbon electrocatalyst with exclusive metal-coordinate active sites for acidic oxygen reduction reaction. <i>Carbon</i> , 2018 , 132, 85-94	10.4	15
146	Economical recycling process for spent lithium-ion batteries and macro- and micro-scale mechanistic study. <i>Journal of Power Sources</i> , 2018 , 377, 70-79	8.9	113
145	Three-Dimensional Carbon Current Collector Promises Small Sulfur Molecule Cathode with High Areal Loading for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10882-10889	9.5	25
144	Zinc ion as effective film morphology controller in perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1093-1100	5.8	40
143	Innovative Application of Acid Leaching to Regenerate Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ Cathodes from Spent Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5959-5968	8.3	86
142	A Novel Proximity Sensor Based on Parallel Plate Capacitance. <i>IEEE Sensors Journal</i> , 2018 , 18, 7015-7022	9	
141	Removal of sulfamethoxazole (SMX) and sulfapyridine (SPY) from aqueous solutions by biochars derived from anaerobically digested bagasse. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 25659-25667	5.1	50
140	Extrinsic Movable Ions in MAPbI ₃ Modulate Energy Band Alignment in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701981	21.8	49
139	Fast sodium storage kinetics of lantern-like Ti _{0.25} Sn _{0.75} S ₂ connected via carbon nanotubes. <i>Energy Storage Materials</i> , 2018 , 11, 100-111	19.4	29
138	Synergistic Doping for Pseudocapacitance Sites in Alkaline Carbon Supercapacitors. <i>ChemElectroChem</i> , 2018 , 5, 84-92	4.3	12
137	Conductivity and Pseudocapacitance Optimization of Bimetallic Antimony-Indium Sulfide Anodes for Sodium-Ion Batteries with Favorable Kinetics. <i>Advanced Science</i> , 2018 , 5, 1800613	13.6	39
136	Ionic liquid electrolyte with highly concentrated LiTFSI for lithium metal batteries. <i>Electrochimica Acta</i> , 2018 , 285, 78-85	6.7	55
135	Three-Dimensional Interfacial Stress Sensor Based on Graphene Foam. <i>IEEE Sensors Journal</i> , 2018 , 18, 7956-7963	4	14
134	Selective Recovery of Li and Fe from Spent Lithium-Ion Batteries by an Environmentally Friendly Mechanochemical Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11029-11035	8.3	73
133	Development and Challenges of Functional Electrolytes for High-Performance Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1800919	15.6	98

132	In Situ Grain Boundary Functionalization for Stable and Efficient Inorganic CsPbI ₂ Br Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1801050	21.8	149
131	Pre-oxidizing the precursors of Nickel-rich cathode materials to regulate their Li ⁺ /Ni ²⁺ cation ordering towards cyclability improvements. <i>Journal of Power Sources</i> , 2018 , 396, 734-741	8.9	59
130	Three-dimensional Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ cathode materials synthesized by a novel hydrothermal method for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 757, 16-23	5.7	15
129	Calcium doped MAPbI ₃ with better energy state alignment in perovskite solar cells. <i>Applied Physics Letters</i> , 2018 , 112, 193901	3.4	26
128	Toward sustainable and systematic recycling of spent rechargeable batteries. <i>Chemical Society Reviews</i> , 2018 , 47, 7239-7302	58.5	358
127	A facile recovery process for cathodes from spent lithium iron phosphate batteries by using oxalic acid. <i>CSEE Journal of Power and Energy Systems</i> , 2018 , 4, 219-225	2.3	20
126	A Chemical Precipitation Method Preparing Hollow-Core-Shell Heterostructures Based on the Prussian Blue Analogs as Cathode for Sodium-Ion Batteries. <i>Small</i> , 2018 , 14, e1801246	11	70
125	Metal-organic frameworks composites threaded on the CNT knitted separator for suppressing the shuttle effect of lithium sulfur batteries. <i>Energy Storage Materials</i> , 2018 , 14, 383-391	19.4	91
124	Vitamin K as a high-performance organic anode material for rechargeable potassium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12559-12564	13	62
123	Sensitivity-Compensated Micro-Pressure Flexible Sensor for Aerospace Vehicle. <i>Sensors</i> , 2018 , 19,	3.8	10
122	Process for recycling mixed-cathode materials from spent lithium-ion batteries and kinetics of leaching. <i>Waste Management</i> , 2018 , 71, 362-371	8.6	163
121	Role of LaNiO ₃ in suppressing voltage decay of layered lithium-rich cathode materials. <i>Electrochimica Acta</i> , 2018 , 260, 986-993	6.7	34
120	Interface engineering in solid state Li metal batteries by quasi-2D hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20896-20903	13	23
119	3-D Interfacial Stress Decoupling Method Based on Graphene Foam. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 5021-5028	2.9	3
118	Simultaneously fabricating homogeneous nanostructured ionic and electronic pathways for layered lithium-rich oxides. <i>Journal of Power Sources</i> , 2018 , 402, 499-505	8.9	13
117	Electron bridging structure glued yolk-shell hierarchical porous carbon/sulfur composite for high performance Li-S batteries. <i>Electrochimica Acta</i> , 2018 , 292, 199-207	6.7	20
116	The Recycling of Spent Lithium-Ion Batteries: a Review of Current Processes and Technologies. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 461-482	29.3	131
115	A Review of Functional Binders in Lithium/Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802107	21.8	203

114	Improving the cycling stability of Ni-rich cathode materials by fabricating surface rock salt phase. <i>Electrochimica Acta</i> , 2018 , 292, 217-226	6.7	60
113	Metal-phosphide-doped Li ₇ P ₃ S ₁₁ glass-ceramic electrolyte with high ionic conductivity for all-solid-state lithium-sulfur batteries. <i>Electrochemistry Communications</i> , 2018 , 97, 100-104	5.1	23
112	Hierarchical porous Co _{0.85} Se@reduced graphene oxide ultrathin nanosheets with vacancy-enhanced kinetics as superior anodes for sodium-ion batteries. <i>Nano Energy</i> , 2018 , 53, 524-535	17.1	125
111	Compound-Hierarchical-Sphere LiNiCoMnO: Synthesis, Structure, and Electrochemical Characterization. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32120-32127	9.5	18
110	Flexible, conductive, and highly pressure-sensitive graphene-polyimide foam for pressure sensor application. <i>Composites Science and Technology</i> , 2018 , 164, 187-194	8.6	82
109	Atomic Iron Catalysis of Polysulfide Conversion in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19311-19317	9.5	103
108	Vinyltriethoxysilane as an electrolyte additive to improve the safety of lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5142-5147	13	25
107	Enhanced Electrochemical Performance of Layered Lithium-Rich Cathode Materials by Constructing Spinel-Structure Skin and Ferric Oxide Islands. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8669-8678	8.5	42
106	Toward Practical High-Energy Batteries: A Modular-Assembled Oval-Like Carbon Microstructure for Thick Sulfur Electrodes. <i>Advanced Materials</i> , 2017 , 29, 1700598	24	82
105	Gadolinium/chloride co-doping of lithium vanadium phosphate cathodes for lithium-ion batteries. <i>Solid State Ionics</i> , 2017 , 304, 65-70	3.3	8
104	Microorganism-moulded pomegranate-like Na ₃ V ₂ (PO ₄) ₃ /C nanocomposite for advanced sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9982-9990	13	40
103	Sustainable Recovery of Cathode Materials from Spent Lithium-Ion Batteries Using Lactic Acid Leaching System. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5224-5233	8.3	193
102	Alleviating structural degradation of nickel-rich cathode material by eliminating the surface Fm $\bar{3}$ m phase. <i>Energy Storage Materials</i> , 2017 , 8, 134-140	19.4	27
101	Micrometer-Sized RuO ₂ Catalysts Contributing to Formation of Amorphous Na-Deficient Sodium Peroxide in NaO ₂ Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1700632	15.6	24
100	Nature-Inspired NaTiO Nanosheets-Formed Three-Dimensional Microflowers Architecture as a High-Performance Anode Material for Rechargeable Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11669-11677	9.5	79
99	Ultrathin single-crystalline TiO ₂ nanosheets anchored on graphene to be hybrid network for high-rate and long cycle-life sodium battery electrode application. <i>Journal of Power Sources</i> , 2017 , 342, 405-413	8.9	55
98	3D Reticular LiNiMnO Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1516-1523	9.5	32
97	The positive role of (NH ₄) ₃ AlF ₆ coating on Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ oxide as the cathode material for lithium-ion batteries. <i>RSC Advances</i> , 2017 , 7, 1191-1199	3.7	11

96	An interfacial framework for breaking through the Li-ion transport barrier of Li-rich layered cathode materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24292-24298	13	46
95	Zirconia-supported solid-state electrolytes for high-safety lithium secondary batteries in a wide temperature range. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24677-24685	13	25
94	Ionically dispersed Fe(ii)-N and Zn(ii)-N in porous carbon for acidic oxygen reduction reactions. <i>Chemical Communications</i> , 2017 , 53, 11453-11456	5.8	17
93	A Praline-Like Flexible Interlayer with Highly Mounted Polysulfide Anchors for Lithium-Sulfur Batteries. <i>Small</i> , 2017 , 13, 1700357	11	33
92	Structure Evolution from Layered to Spinel during Synthetic Control and Cycling Process of Fe-Containing Li-Rich Cathode Materials for Lithium-Ion Batteries. <i>ACS Omega</i> , 2017 , 2, 5601-5610	3.9	19
91	Facile synthesis of carbon-mediated porous nanocrystallite anatase TiO ₂ for improved sodium insertion capabilities as an anode for sodium-ion batteries. <i>Journal of Power Sources</i> , 2017 , 362, 283-290	8.9	23
90	A modularly-assembled interlayer to entrap polysulfides and protect lithium metal anode for high areal capacity lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2017 , 9, 126-133	19.4	40
89	Constructing heterostructured Li-Fe-Ni-Mn-O cathodes for lithium-ion batteries: effective improvement of ultrafast lithium storage. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 22494-22501	3.6	3
88	Ni-Rich LiNiCoMnO Oxide Coated by Dual-Conductive Layers as High Performance Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29732-29743	9.5	224
87	Sun sensor using a nanosatellites solar panels by means of time-division multiplexing. <i>IET Science, Measurement and Technology</i> , 2017 , 11, 489-494	1.5	2
86	A novel border-rich Prussian blue synthesized by inhibitor control as cathode for sodium ion batteries. <i>Nano Energy</i> , 2017 , 39, 273-283	17.1	133
85	Preparation of MnO-Modified Graphite Sorbents from Spent Li-Ion Batteries for the Treatment of Water Contaminated by Lead, Cadmium, and Silver. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25369-25376	8.5	55
84	Biomimetic ant-nest ionogel electrolyte boosts the performance of dendrite-free lithium batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1660-1667	35.4	157
83	Boron-doped microporous nano carbon as cathode material for high-performance Li-S batteries. <i>Nano Research</i> , 2017 , 10, 426-436	10	37
82	Gluing Carbon Black and Sulfur at Nanoscale: A Polydopamine-Based Nano-Binder For Double-Shelled Sulfur Cathodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601591	21.8	57
81	Organically modified silica-supported ionogels electrolyte for high temperature lithium-ion batteries. <i>Nano Energy</i> , 2017 , 31, 9-18	17.1	72
80	Platinum-Coated Hollow Graphene Nanocages as Cathode Used in Lithium-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 7626-7633	15.6	75
79	Surface Modification of Li-Rich Cathode Materials for Lithium-Ion Batteries with a PEDOT:PSS Conducting Polymer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23095-104	9.5	91

78	Facile Synthesis of Boron-Doped rGO as Cathode Material for High Energy Li-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23635-45	9.5	65
77	The pursuit of solid-state electrolytes for lithium batteries: from comprehensive insight to emerging horizons. <i>Materials Horizons</i> , 2016 , 3, 487-516	14.4	414
76	3D-0D Graphene-FeO Quantum Dot Hybrids as High-Performance Anode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26878-26885	9.5	125
75	Enhanced Performance of a Lithium-Sulfur Battery Using a Carbonate-Based Electrolyte. <i>Angewandte Chemie</i> , 2016 , 128, 10528-10531	3.6	27
74	Enhanced Performance of a Lithium-Sulfur Battery Using a Carbonate-Based Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10372-5	16.4	94
73	Advanced High Energy Density Secondary Batteries with Multi-Electron Reaction Materials. <i>Advanced Science</i> , 2016 , 3, 1600051	13.6	141
72	Sustainable Recycling and Regeneration of Cathode Scraps from Industrial Production of Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 7041-7049	8.3	90
71	Advanced Lithium-Sulfur Batteries Enabled by a Bio-Inspired Polysulfide Adsorptive Brush. <i>Advanced Functional Materials</i> , 2016 , 26, 8418-8426	15.6	98
70	Chemical Inhibition Method to Synthesize Highly Crystalline Prussian Blue Analogs for Sodium-Ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31669-31676	9.5	102
69	Freestanding three-dimensional core-shell nanoarrays for lithium-ion battery anodes. <i>Nature Communications</i> , 2016 , 7, 11774	17.4	124
68	β-Cyclodextrin coated lithium vanadium phosphate as novel cathode material for lithium ion batteries. <i>RSC Advances</i> , 2016 , 6, 103364-103371	3.7	5
67	Preparation of Prussian Blue Submicron Particles with a Pore Structure by Two-Step Optimization for Na-Ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16078-86	9.5	71
66	Liquid-in-Solid and Solid-in-Liquid Electrolytes with High Rate Capacity and Long Cycling Life for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 848-856	9.6	78
65	A novel synthesis of gadolinium-doped Li ₃ V ₂ (PO ₄) ₃ /C with excellent rate capacity and cyclability. <i>RSC Advances</i> , 2016 , 6, 28624-28632	3.7	9
64	Self-Regulative Nanogelator Solid Electrolyte: A New Option to Improve the Safety of Lithium Battery. <i>Advanced Science</i> , 2016 , 3, 1500306	13.6	52
63	Mg-Enriched Engineered Carbon from Lithium-Ion Battery Anode for Phosphate Removal. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2905-9	9.5	33
62	An investigation of functionalized electrolyte using succinonitrile additive for high voltage lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 306, 70-77	8.9	91
61	High-Rate and Cycling-Stable Nickel-Rich Cathode Materials with Enhanced Li(+) Diffusion Pathway. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 582-7	9.5	86

60	Sodium titanium hexacyanoferrate as an environmentally friendly and low-cost cathode material for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 302, 7-12	8.9	41
59	Li-S-Batteries: Advanced Lithium-Sulfur Batteries Enabled by a Bio-Inspired Polysulfide Adsorptive Brush (Adv. Funct. Mater. 46/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 8564-8564	15.6	4
58	Nitrogen-doped carbon/graphene hybrid anode material for sodium-ion batteries with excellent rate capability. <i>Journal of Power Sources</i> , 2016 , 319, 195-201	8.9	129
57	Advanced cathode materials for lithium-ion batteries using nanoarchitectonics. <i>Nanoscale Horizons</i> , 2016 , 1, 423-444	10.8	88
56	Light-weight functional layer on a separator as a polysulfide immobilizer to enhance cycling stability for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17033-17041	13	61
55	Layer-by-Layer Assembled Architecture of Polyelectrolyte Multilayers and Graphene Sheets on Hollow Carbon Spheres/Sulfur Composite for High-Performance Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2016 , 16, 5488-94	11.5	88
54	A floral variant of mesoporous carbon as an anode material for high performance sodium and lithium ion batteries. <i>RSC Advances</i> , 2016 , 6, 78235-78240	3.7	12
53	Hierarchical mesoporous/macroporous Co ₃ O ₄ ultrathin nanosheets as free-standing catalysts for rechargeable lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17620-17626	13	47
52	Na ₂ Ni _x Co _{1-x} Fe(CN) ₆ : A class of Prussian blue analogs with transition metal elements as cathode materials for sodium ion batteries. <i>Electrochemistry Communications</i> , 2015 , 59, 91-94	5.1	74
51	Ionic liquid-based electrolyte with binary lithium salts for high performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2015 , 296, 10-17	8.9	49
50	Design of surface protective layer of LiF/FeF ₃ nanoparticles in Li-rich cathode for high-capacity Li-ion batteries. <i>Nano Energy</i> , 2015 , 15, 164-176	17.1	129
49	Template-Assisted Hydrothermal Synthesis of LiMnSiO ₄ as a Cathode Material for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10779-84	9.5	25
48	Ring-chain synergy in ionic liquid electrolytes for lithium batteries. <i>Chemical Science</i> , 2015 , 6, 7274-7283	9.4	18
47	Structural and Electrochemical Study of Hierarchical LiNi(1/3)Co(1/3)Mn(1/3)O ₂ Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21939-47	9.5	81
46	A Safe Electrolyte with Counterbalance between the Ionic Liquid and Tris(ethylene glycol)dimethyl ether for High Performance Lithium-Sulfur Batteries. <i>Electrochimica Acta</i> , 2015 , 184, 356-363	6.7	17
45	Systematic Effect for an Ultralong Cycle Lithium-Sulfur Battery. <i>Nano Letters</i> , 2015 , 15, 7431-9	11.5	98
44	A polypyrrole-supported carbon paper acting as a polysulfide trap for lithium-sulfur batteries. <i>RSC Advances</i> , 2015 , 5, 94479-94485	3.7	18
43	Nitrogen-Rich Mesoporous Carbon as Anode Material for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27124-30	9.5	168

42	From a historic review to horizons beyond: lithium-sulphur batteries run on the wheels. <i>Chemical Communications</i> , 2015 , 51, 18-33	5.8	147
41	A facile route to synthesize sheet-like Na ₂ Ti ₃ O ₇ with improved sodium storage properties. <i>Chemical Research in Chinese Universities</i> , 2015 , 31, 443-446	2.2	10
40	A facile approach of introducing DMS into LiODFBBYR14TFSI electrolyte for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6366-6372	13	15
39	Surface modification of a cobalt-free layered Li[Li _{0.2} Fe _{0.1} Ni _{0.15} Mn _{0.55}]O ₂ oxide with the FePO ₄ /Li ₃ PO ₄ composite as the cathode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9528-9537	13	31
38	Succinic acid-based leaching system: A sustainable process for recovery of valuable metals from spent Li-ion batteries. <i>Journal of Power Sources</i> , 2015 , 282, 544-551	8.9	239
37	Sulfur cathode based on layered carbon matrix for high-performance Li-S batteries. <i>Nano Energy</i> , 2015 , 12, 742-749	17.1	55
36	Multifunctional AlPO ₄ coating for improving electrochemical properties of low-cost Li[Li _{0.2} Fe _{0.1} Ni _{0.15} Mn _{0.55}]O ₂ cathode materials for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3773-81	9.5	160
35	Synthesis and electrochemical performance of cathode material Li _{1.2} Co _{0.13} Ni _{0.13} Mn _{0.54} O ₂ from spent lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 249, 28-34	8.9	80
34	Free-standing hierarchically sandwich-type tungsten disulfide nanotubes/graphene anode for lithium-ion batteries. <i>Nano Letters</i> , 2014 , 14, 5899-904	11.5	243
33	Surface modification of spinel MnO ₂ and its lithium adsorption properties from spent lithium ion batteries. <i>Applied Surface Science</i> , 2014 , 315, 59-65	6.7	31
32	An effective approach to protect lithium anode and improve cycle performance for Li-S batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15542-9	9.5	143
31	Synthesis-microstructure-performance relationship of layered transition metal oxides as cathode for rechargeable sodium batteries prepared by high-temperature calcination. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17176-83	9.5	18
30	Recovery of valuable metals from spent lithium-ion batteries by ultrasonic-assisted leaching process. <i>Journal of Power Sources</i> , 2014 , 262, 380-385	8.9	182
29	Graphene-wrapped sulfur/metal organic framework-derived microporous carbon composite for lithium sulfur batteries. <i>APL Materials</i> , 2014 , 2, 124109	5.7	66
28	The positive roles of integrated layered-spinel structures combined with nanocoating in low-cost Li-rich cathode Li[Li _{0.2} Fe _{0.1} Ni _{0.15} Mn _{0.55}]O ₂ for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21711-20	9.5	55
27	Organic-acid-assisted fabrication of low-cost Li-rich cathode material (Li[Li _{1/6} Fe _{1/6} Ni _{1/6} Mn _{1/2}]O ₂) for lithium-ion battery. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22305-15	9.5	28
26	Investigation of a novel ternary electrolyte based on dimethyl sulfite and lithium difluoromono(oxalato)borate for lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 245, 730-738	8.9	17
25	The effect of chromium substitution on improving electrochemical performance of low-cost FeMn based Li-rich layered oxide as cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 245, 898-907	8.9	32

24	Graphene-based three-dimensional hierarchical sandwich-type architecture for high-performance Li/S batteries. <i>Nano Letters</i> , 2013 , 13, 4642-9	11.5	358
23	Coralline Glassy Lithium Phosphate-Coated LiFePO ₄ Cathodes with Improved Power Capability for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6013-6021	3.8	62
22	Synthesis, characterization, and electrochemistry of cathode material Li[Li _{0.2} Co _{0.13} Ni _{0.13} Mn _{0.54}]O ₂ using organic chelating agents for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 228, 206-213	8.9	89
21	A diisocyanate/sulfone binary electrolyte based on lithium difluoro(oxalate)borate for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3659	13	33
20	High voltage and safe electrolytes based on ionic liquid and sulfone for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 233, 115-120	8.9	79
19	Study of the electrochemical characteristics of sulfonyl isocyanate/sulfone binary electrolytes for use in lithium-ion batteries. <i>Journal of Power Sources</i> , 2012 , 202, 322-331	8.9	38
18	Preparation and performance of novel LLTO thin film electrolytes for thin film lithium batteries. <i>Science Bulletin</i> , 2012 , 57, 4199-4204		11
17	Preparation and electrochemical properties of re-synthesized LiCoO ₂ from spent lithium-ion batteries. <i>Science Bulletin</i> , 2012 , 57, 4188-4194		24
16	Novel solid-state Li/LiFePO ₄ battery configuration with a ternary nanocomposite electrolyte for practical applications. <i>Advanced Materials</i> , 2011 , 23, 5081-5	24	95
15	Improvement of Rate and Cycle Performance by Rapid Polyaniline Coating of a MWCNT/Sulfur Cathode. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24411-24417	3.8	162
14	Preparation of LiCoO ₂ films from spent lithium-ion batteries by a combined recycling process. <i>Hydrometallurgy</i> , 2011 , 108, 220-225	4	144
13	The Structure-Activity Relationship and Physicochemical Properties of Acetamide-Based Brønsted Acid Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20007-20015	3.8	12
12	Recovery of cobalt and lithium from spent lithium ion batteries using organic citric acid as leachant. <i>Journal of Hazardous Materials</i> , 2010 , 176, 288-93	12.8	344
11	Environmental friendly leaching reagent for cobalt and lithium recovery from spent lithium-ion batteries. <i>Waste Management</i> , 2010 , 30, 2615-21	8.6	292
10	Butylene sulfite as a film-forming additive to propylene carbonate-based electrolytes for lithium ion batteries. <i>Journal of Power Sources</i> , 2007 , 172, 395-403	8.9	70
9	Progress in electrolyte and interface of hard carbon and graphite anode for sodium-ion battery		9
8	Tailored Carrier Transport Path by Interpenetrating Networks in Cathode Composite for High Performance All-Solid-State Li-SeS ₂ Batteries. <i>Advanced Fiber Materials</i> , 1	10.9	4
7	Recycling of Rechargeable Batteries: Insights from a Bibliometrics-Based Analysis of Emerging Publishing and Research Trends. <i>Advanced Energy and Sustainability Research</i> , 2100153	1.6	0

6	Sustainable Recycling of Cathode Scrap towards High-Performance Anode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> ,2103288	21.8	4
5	Study on the Interfacial Mechanism of Bisalt Polyether Electrolyte for Lithium Metal Batteries. <i>Advanced Functional Materials</i> ,2109184	15.6	2
4	Layered $K_{0.54}Mn_{0.78}Mg_{0.22}O_2$ as a high-performance cathode material for potassium-ion batteries. <i>Nano Research</i> ,1	10	0
3	High-Lithiophilicity Host with Micro/Nanostructured Active Sites based on Wenzel Wetting Model for Dendrite-Free Lithium Metal Anodes. <i>Advanced Functional Materials</i> ,2106676	15.6	7
2	2D Amorphous Mo-Doped CoB for Bidirectional Sulfur Catalysis in Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> ,2202766	15.6	3
1	Sustainable Upcycling of Spent Lithium-Ion Batteries Cathode Materials: Stabilization by In Situ Li/Mn Disorder. <i>Advanced Energy Materials</i> ,2201174	21.8	0