Yang-Kook

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.

181 89 213 33,312 h-index g-index citations papers 16 39,169 221 7.94 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
213	Uniformly distributed reaction by 3D host-lithium composite anode for high rate capability and reversibility of Li-O2 batteries. <i>Chemical Engineering Journal</i> , 2022 , 427, 130914	14.7	2
212	Hierarchical O3/P2 heterostructured cathode materials for advanced sodium-ion batteries. <i>Energy Storage Materials</i> , 2022 , 47, 515-525	19.4	9
211	Stable Solid Electrolyte Interphase for Long-Life Potassium Metal Batteries. <i>ACS Energy Letters</i> , 2022 , 7, 401-409	20.1	4
210	Ultrafine-grained Ni-rich layered cathode for advanced Li-ion batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 6616-6626	35.4	13
209	Enhanced Cycling Stability of O3-Type Na[Ni0.5Mn0.5]O2 Cathode through Sn Addition for Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6593-6600	3.8	2
208	Critical Role of Functional Groups Containing N, S, and O on Graphene Surface for Stable and Fast Charging Li-S Batteries. <i>Small</i> , 2021 , 17, e2007242	11	7
207	Long-Lasting Solid Electrolyte Interphase for Stable Li-Metal Batteries. ACS Energy Letters, 2021, 6, 21	53 ≥2 161	1 14
206	Microstructure Engineered Ni-Rich Layered Cathode for Electric Vehicle Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100884	21.8	21
205	Closely Coupled Binary Metal Sulfide Nanosheets Shielded Molybdenum Sulfide Nanorod Hierarchical Structure via Eco-Benign Surface Exfoliation Strategy towards Efficient Lithium and Sodium-ion Batteries. <i>Energy Storage Materials</i> , 2021 , 38, 344-353	19.4	8
204	Enhanced cycling stability of Sn-doped Li[Ni0.90Co0.05Mn0.05]O2 via optimization of particle shape and orientation. <i>Chemical Engineering Journal</i> , 2021 , 405, 126887	14.7	14
203	Diverting Exploration of Silicon Anode into Practical Way: A Review Focused on Silicon-Graphite Composite for Lithium Ion Batteries. <i>Energy Storage Materials</i> , 2021 , 35, 550-576	19.4	69
202	Lithium-Substituted Tunnel/Spinel Heterostructured Cathode Material for High-Performance Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2008569	15.6	3
201	Microstrain Alleviation in High-Energy Ni-Rich NCMA Cathode for Long Battery Life. <i>ACS Energy Letters</i> , 2021 , 6, 216-223	20.1	33
200	WO Nanowire/Carbon Nanotube Interlayer as a Chemical Adsorption Mediator for High-Performance Lithium-Sulfur Batteries. <i>Molecules</i> , 2021 , 26,	4.8	4
199	Cation ordered Ni-rich layered cathode for ultra-long battery life. <i>Energy and Environmental Science</i> , 2021 , 14, 1573-1583	35.4	32
198	Reducing cobalt from lithium-ion batteries for the electric vehicle era. <i>Energy and Environmental Science</i> , 2021 , 14, 844-852	35.4	49
197	Electrolyte-Mediated Stabilization of High-Capacity Micro-Sized Antimony Anodes for Potassium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2005993	24	48

196	Optimized Ni-Rich NCMA Cathode for Electric Vehicle Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003767	21.8	21
195	Capacity Fading Mechanisms in Ni-Rich Single-Crystal NCM Cathodes. ACS Energy Letters, 2021, 6, 2726-	23/3.4	53
194	Achieving High-Performance Li-S Batteries via Polysulfide Adjoining Interface Engineering. <i>ACS Applied Materials & Discourse (Materials & Discours)</i> 13, 39435-39445	9.5	4
193	Multiscale Understanding of Covalently Fixed Sulfur-Polyacrylonitrile Composite as Advanced Cathode for Metal-Sulfur Batteries. <i>Advanced Science</i> , 2021 , 8, e2101123	13.6	9
192	Cationic and transition metal co-substitution strategy of O3-type NaCrO2 cathode for high-energy sodium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 41, 183-195	19.4	11
191	State-of-the-art anodes of potassium-ion batteries: synthesis, chemistry, and applications. <i>Chemical Science</i> , 2021 , 12, 7623-7655	9.4	9
190	High-performance Ni-rich Li[Ni0.9\(\text{Ni0.9}\) Coo.1Alx]O2 cathodes via multi-stage microstructural tailoring from hydroxide precursor to the lithiated oxide. <i>Energy and Environmental Science</i> , 2021 , 14, 5084-5095	35.4	12
189	New Class of Ni-Rich Cathode Materials Li[NixCoyB1kk]]O2 for Next Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000495	21.8	57
188	Multidimensional Na4VMn0.9Cu0.1(PO4)3/C cotton-candy cathode materials for high energy Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12055-12068	13	19
187	High-energy O3-Na1@xCax[Ni0.5Mn0.5]O2 cathodes for long-life sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13776-13786	13	18
186	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. <i>ACS Energy Letters</i> , 2020 , 5, 2376-2400	20.1	128
185	Lithium-Oxygen Batteries and Related Systems: Potential, Status, and Future. <i>Chemical Reviews</i> , 2020 , 120, 6626-6683	68.1	279
184	Beyond Doping and Coating: Prospective Strategies for Stable High-Capacity Layered Ni-Rich Cathodes. <i>ACS Energy Letters</i> , 2020 , 5, 1136-1146	20.1	161
183	Investigation of K-ion storage performances in a bismuth sulfide-carbon nanotube composite anode <i>RSC Advances</i> , 2020 , 10, 6536-6539	3.7	3
182	A highly stabilized Ni-rich NCA cathode for high-energy lithium-ion batteries. <i>Materials Today</i> , 2020 , 36, 73-82	21.8	77
181	Electrolyte Engineering Enables High Stability and Capacity Alloying Anodes for Sodium and Potassium Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 766-776	20.1	91
180	Development of Novel Cathode with Large Lithium Storage Mechanism Based on Pyrophosphate-Based Conversion Reaction for Rechargeable Lithium Batteries. <i>Small Methods</i> , 2020 , 4, 1900847	12.8	3
179	Toward the Sustainable Lithium Metal Batteries with a New Electrolyte Solvation Chemistry. Advanced Energy Materials, 2020, 10, 2000567	21.8	53

178	Na2.3Cu1.1Mn2O7Ihanoflakes as enhanced cathode materials for high-energy sodium-ion batteries achieved by a rapid pyrosynthesis approach. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 770-778	3 ¹³	9
177	The dominant role of Mn2+ additive on the electrochemical reaction in ZnMn2O4 cathode for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2020 , 28, 407-417	19.4	84
176	Cobalt-Free High-Capacity Ni-Rich Layered Li[Ni0.9Mn0.1]O2 Cathode. <i>Advanced Energy Materials</i> , 2020 , 10, 1903179	21.8	60
175	Ni-Rich Layered Cathode Materials with Electrochemo-Mechanically Compliant Microstructures for All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903360	21.8	80
174	High-Energy W-Doped Li[Ni0.95Co0.04Al0.01]O2 Cathodes for Next-Generation Electric Vehicles. <i>Energy Storage Materials</i> , 2020 , 33, 399-407	19.4	29
173	Recent Progress and Perspective of Advanced High-Energy Co-Less Ni-Rich Cathodes for Li-Ion Batteries: Yesterday, Today, and Tomorrow. <i>Advanced Energy Materials</i> , 2020 , 10, 2002027	21.8	78
172	Role of Li-Ion Depletion on Electrode Surface: Underlying Mechanism for Electrodeposition Behavior of Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2002390	21.8	53
171	Investigation of superior sodium storage and reversible Na2S conversion reactions in a porous NiS2@C composite using in operando X-ray diffraction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24401	- 2 4407	73
170	Model-Based Design of Graphite-Compatible Electrolytes in Potassium-Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 2651-2661	20.1	49
169	Understanding the Capacity Fading Mechanisms of O3-Type Na[Ni0.5Mn0.5]O2 Cathode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001609	21.8	22
168	Model-Based Design of Stable Electrolytes for Potassium Ion Batteries. ACS Energy Letters, 2020, 5, 312	2 4-3.1 13	1 32
167	Heuristic solution for achieving long-term cycle stability for Ni-rich layered cathodes at full depth of discharge. <i>Nature Energy</i> , 2020 , 5, 860-869	62.3	109
166	Tungsten Oxide/Zirconia as a Functional Polysulfide Mediator for High-Performance LithiumBulfur Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 3168-3175	20.1	11
165	Additives Engineered Nonflammable Electrolyte for Safer Potassium Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001934	15.6	37
164	Facile migration of potassium ions in a ternary P3-type K0.5[Mn0.8Fe0.1Ni0.1]O2 cathode in rechargeable potassium batteries. <i>Energy Storage Materials</i> , 2020 , 25, 714-723	19.4	36
163	A new P2-type layered oxide cathode with superior full-cell performances for K-ion batteries. Journal of Materials Chemistry A, 2019 , 7, 21362-21370	13	33
162	A method of increasing the energy density of layered Ni-rich Li[Ni1@xCoxMnx]O2 cathodes (x = 0.05, 0.1, 0.2). <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2694-2701	13	88
161	Quaternary Layered Ni-Rich NCMA Cathode for Lithium-Ion Batteries. ACS Energy Letters, 2019 , 4, 576-5	5 82).1	117

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160	Potassium vanadate as a new cathode material for potassium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 432, 24-29	8.9	36
159	Degradation Mechanism of Ni-Enriched NCA Cathode for Lithium Batteries: Are Microcracks Really Critical?. <i>ACS Energy Letters</i> , 2019 , 4, 1394-1400	20.1	161
158	Customizing a Lifhetal battery that survives practical operating conditions for electric vehicle applications. <i>Energy and Environmental Science</i> , 2019 , 12, 2174-2184	35.4	81
157	Trimethylsilyl azide (C3H9N3Si): a highly efficient additive for tailoring fluoroethylene carbonate (FEC) based electrolytes for Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13441-13448	13	24
156	K0.54[Co0.5Mn0.5]O2: New cathode with high power capability for potassium-ion batteries. <i>Nano Energy</i> , 2019 , 61, 284-294	17.1	77
155	High-performance Ti-doped O3-type Na[Tix(Ni0.6Co0.2Mn0.2)1-x]O2 cathodes for practical sodium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 422, 1-8	8.9	33
154	A New P2-Type Layered Oxide Cathode with Extremely High Energy Density for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803346	21.8	95
153	A 4 V Class Potassium Metal Battery with Extremely Low Overpotential. <i>ACS Nano</i> , 2019 , 13, 9306-9314	16.7	44
152	Degradation Mechanism of Highly Ni-Rich Li[NiCoMn]O Cathodes with > 0.9. <i>ACS Applied Materials & Materials (Amp; Interfaces, 2019, 11, 30936-30942)</i>	9.5	80
151	Highly wrinkled carbon tubes as an advanced anode for K-ion full batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20675-20682	13	18
150	Suppressing detrimental phase transitions via tungsten doping of LiNiO2 cathode for next-generation lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18580-18588	13	103
149	Li[Ni0.9Co0.09W0.01]O2: A New Type of Layered Oxide Cathode with High Cycling Stability. <i>Advanced Energy Materials</i> , 2019 , 9, 1902698	21.8	66
148	Tungsten doping for stabilization of Li[Ni0.90Co0.05Mn0.05]O2 cathode for Li-ion battery at high voltage. <i>Journal of Power Sources</i> , 2019 , 442, 227242	8.9	60
147	Nano-compacted Li2S/Graphene Composite Cathode for High-Energy LithiumBulfur Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2787-2795	20.1	17
146	Layered KMnOID.15HO as a Cathode Material for Potassium-Ion Intercalation. <i>ACS Applied Materials & Materials (Materials Acts)</i> , 11, 43312-43319	9.5	16
145	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. <i>ACS Energy Letters</i> , 2019 , 4, 2995-3001	20.1	138
144	Microstructure-Controlled Ni-Rich Cathode Material by Microscale Compositional Partition for Next-Generation Electric Vehicles. <i>Advanced Energy Materials</i> , 2019 , 9, 1803902	21.8	114
143	Nano/Microstructured Silicon-Graphite Composite Anode for High-Energy-Density Li-Ion Battery. <i>ACS Nano</i> , 2019 , 13, 2624-2633	16.7	159

142	Compositionally and structurally redesigned high-energy Ni-rich layered cathode for next-generation lithium batteries. <i>Materials Today</i> , 2019 , 23, 26-36	21.8	76
141	A zero fading sodium ion battery: High compatibility microspherical patronite in ether-based electrolyte. <i>Energy Storage Materials</i> , 2019 , 19, 270-280	19.4	17
140	New Insights Related to Rechargeable Lithium Batteries: Li Metal Anodes, Ni Rich LiNixCoyMnzO2 Cathodes and Beyond Them. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A5265-A5274	3.9	31
139	Carbon-Free TiO2 Microspheres as Anode Materials for Sodium Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 494-501	20.1	38
138	Quaternary Transition Metal Oxide Layered Framework: O3-Type Na[Ni0.32Fe0.13Co0.15Mn0.40]O2 Cathode Material for High-Performance Sodium-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 13500-13507	3.8	24
137	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy Zn2V2O7 nanowire cathode through intercalation regulation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3850-3856	13	212
136	Cation Ordering of Zr-Doped LiNiO2 Cathode for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 1808-1814	9.6	97
135	Toward High-Safety PotassiumBulfur Batteries Using a Potassium Polysulfide Catholyte and Metal-Free Anode. <i>ACS Energy Letters</i> , 2018 , 3, 540-541	20.1	82
134	Extracting maximum capacity from Ni-rich Li[Ni0.95Co0.025Mn0.025]O2 cathodes for high-energy-density lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4126-4132	13	139
133	Bioinspired Surface Layer for the Cathode Material of High-Energy-Density Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702942	21.8	57
132	Capacity Fading of Ni-Rich Li[NixCoyMn1kl]]O2 (0.6 lk ld).95) Cathodes for High-Energy-Density Lithium-Ion Batteries: Bulk or Surface Degradation?. <i>Chemistry of Materials</i> , 2018 , 30, 1155-1163	9.6	620
131	Achieving high mass loading of Na3V2(PO4)3@carbon on carbon cloth by constructing three-dimensional network between carbon fibers for ultralong cycle-life and ultrahigh rate sodium-ion batteries. <i>Nano Energy</i> , 2018 , 45, 136-147	17.1	106
130	Optimized Concentration of Redox Mediator and Surface Protection of Li Metal for Maintenance of High Energy Efficiency in LiD2 Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702258	21.8	71
129	Revealing the Reaction Mechanism of NaD2 Batteries using Environmental Transmission Electron Microscopy. <i>ACS Energy Letters</i> , 2018 , 3, 393-399	20.1	26
128	Stabilization of Lithium-Metal Batteries Based on the in Situ Formation of a Stable Solid Electrolyte Interphase Layer. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 17985-17993	9.5	49
127	NaVOBHO Barnesite Nanorod: An Open Door to Display a Stable and High Energy for Aqueous Rechargeable Zn-Ion Batteries as Cathodes. <i>Nano Letters</i> , 2018 , 18, 2402-2410	11.5	341
126	Pushing the limit of layered transition metal oxide cathodes for high-energy density rechargeable Li ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 1271-1279	35.4	225
125	Development of P3-K0.69CrO2 as an ultra-high-performance cathode material for K-ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2821-2827	35.4	121

124	High performance potassium Bulfur batteries based on a sulfurized polyacrylonitrile cathode and polyacrylic acid binder. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14587-14593	13	63
123	Improved Cycling Stability of Li[Ni0.90Co0.05Mn0.05]O2 Through Microstructure Modification by Boron Doping for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801202	21.8	194
122	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy MgMn2O4 Cathode. <i>ACS Energy Letters</i> , 2018 , 3, 1998-2004	20.1	108
121	K2V6O16ID.7H2O nanorod cathode: an advanced intercalation system for high energy aqueous rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15530-15539	13	132
120	Review Comparative Evaluation of Redox Mediators for Li-O2Batteries: A Critical Review. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A2274-A2293	3.9	51
119	Simultaneous MgO coating and Mg doping of Na[Ni0.5Mn0.5]O2 cathode: facile and customizable approach to high-voltage sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16854-16862	13	55
118	Recent research trends in LiB batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11582-11605	13	130
117	Self-Passivation of a LiNiO2 Cathode for a Lithium-Ion Battery through Zr Doping. <i>ACS Energy Letters</i> , 2018 , 3, 1634-1639	20.1	108
116	Designing a High-Performance LithiumBulfur Batteries Based on Layered Double HydroxidesLarbon Nanotubes Composite Cathode and a Dual-Functional GrapheneBolypropyleneAl2O3 Separator. <i>Advanced Functional Materials</i> , 2018 , 28, 1704294	15.6	115
115	Controlling the Wettability between Freestanding Electrode and Electrolyte for High Energy Density Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A5006-A5013	3.9	27
114	Recent Progress in Rechargeable Potassium Batteries. Advanced Functional Materials, 2018, 28, 180293	8815.6	362
113	Dandelion-shaped manganese sulfide in ether-based electrolyte for enhanced performance sodium-ion batteries. <i>Communications Chemistry</i> , 2018 , 1,	6.3	21
112	Variation of Electronic Conductivity within Secondary Particles Revealing a Capacity-Fading Mechanism of Layered Ni-Rich Cathode. <i>ACS Energy Letters</i> , 2018 , 3, 3002-3007	20.1	50
111	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 2620-2640	20.1	439
110	ICAC 2018: The First International Conference Focused on NCM & NCA Cathode Materials for Lithium Ion Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 2757-2760	20.1	7
109	Microstructural Degradation of Ni-Rich Li[Ni Co Mn]O Cathodes During Accelerated Calendar Aging. <i>Small</i> , 2018 , 14, e1803179	11	57
108	High-Performance Cells Containing Lithium Metal Anodes, LiNiCoMnO (NCM 622) Cathodes, and Fluoroethylene Carbonate-Based Electrolyte Solution with Practical Loading. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 19773-19782	9.5	60
107	Microstructure Evolution of Concentration Gradient Li[Ni0.75Co0.10Mn0.15]O2 Cathode for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1802090	15.6	47

106	Superior lithium/potassium storage capability of nitrogen-rich porous carbon nanosheets derived from petroleum coke. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12551-12558	13	64
105	Cathode Materials for Future Electric Vehicles and Energy Storage Systems. <i>ACS Energy Letters</i> , 2017 , 2, 703-708	20.1	69
104	Electrochemical Zinc Intercalation in Lithium Vanadium Oxide: A High-Capacity Zinc-Ion Battery Cathode. <i>Chemistry of Materials</i> , 2017 , 29, 1684-1694	9.6	342
103	Effect of carbon-sulphur bond in a sulphur/dehydrogenated polyacrylonitrile/reduced graphene oxide composite cathode for lithium-sulphur batteries. <i>Journal of Power Sources</i> , 2017 , 355, 140-146	8.9	21
102	Structural Stability of LiNiO2 Cycled above 4.2 V. ACS Energy Letters, 2017, 2, 1150-1155	20.1	197
101	Monoclinic-Orthorhombic Na1.1Li2.0V2(PO4)3/C Composite Cathode for Na+/Li+ Hybrid-Ion Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 6642-6652	9.6	15
100	High-Energy Density CoreBhell Structured Li[Ni0.95Co0.025Mn0.025]O2 Cathode for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 5048-5052	9.6	98
99	Sodium-ion batteries: present and future. <i>Chemical Society Reviews</i> , 2017 , 46, 3529-3614	58.5	2356
98	Nickel-Rich Layered Cathode Materials for Automotive Lithium-Ion Batteries: Achievements and Perspectives. <i>ACS Energy Letters</i> , 2017 , 2, 196-223	20.1	726
97	Micro-Intertexture Carbon-Free Iron Sulfides as Advanced High Tap Density Anodes for Rechargeable Batteries. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 39416-39424	9.5	35
96	Tunnel-type FeOOH cathode material for high rate sodium storage via a new conversion reaction. <i>Nano Energy</i> , 2017 , 41, 687-696	17.1	30
95	Electrochemical Properties of Sulfurized-Polyacrylonitrile Cathode for Lithium-Sulfur Batteries: Effect of Polyacrylic Acid Binder and Fluoroethylene Carbonate Additive. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5331-5337	6.4	79
94	Resolving the degradation pathways of the O3-type layered oxide cathode surface through the nano-scale aluminum oxide coating for high-energy density sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23671-23680	13	76
93	Self-Rearrangement of Silicon Nanoparticles Embedded in Micro-Carbon Sphere Framework for High-Energy and Long-Life Lithium-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 5600-5606	11.5	108
92	Sodium oxygen batteries: one step further with catalysis by ruthenium nanoparticles. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20678-20686	13	21
91	Synthesis and Electrochemical Reaction of Tin Oxalate-Reduced Graphene Oxide Composite Anode for Rechargeable Lithium Batteries. <i>ACS Applied Materials & District Materials & Di</i>	9.5	28
90	Extending the Battery Life Using an Al-Doped Li[Ni0.76Co0.09Mn0.15]O2 Cathode with Concentration Gradients for Lithium Ion Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 1848-1854	20.1	115
89	High-Energy Ni-Rich Li[NixCoyMn1Ѿ]O2 Cathodes via Compositional Partitioning for Next-Generation Electric Vehicles. <i>Chemistry of Materials</i> , 2017 , 29, 10436-10445	9.6	140

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88	A new perspective of the ruthenium ion: a bifunctional soluble catalyst for high efficiency Li©2 batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15512-15516	13	17
87	Feasibility of Full (Li-Ion)-O Cells Comprised of Hard Carbon Anodes. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 4352-4361	9.5	30
86	Microsphere Na[NiCoMn]O Cathode Material for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> , 9, 44534-44541	9.5	34
85	Compositionally Graded Cathode Material with Long-Term Cycling Stability for Electric Vehicles Application. <i>Advanced Energy Materials</i> , 2016 , 6, 1601417	21.8	102
84	A Scaled-Up Lithium (Ion)-Sulfur Battery: Newly Faced Problems and Solutions. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600052	6.8	23
83	Comparison between Na-Ion and Li-Ion Cells: Understanding the Critical Role of the Cathodes Stability and the Anodes Pretreatment on the Cells Behavior. <i>ACS Applied Materials & Material</i>	9.5	99
82	Irondobalt bimetal decorated carbon nanotubes as cost-effective cathode catalysts for LiD2 batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7020-7026	13	40
81	Silver nanowires as catalytic cathodes for stabilizing lithium-oxygen batteries. <i>Journal of Power Sources</i> , 2016 , 311, 49-56	8.9	25
80	A lithium-oxygen battery based on lithium superoxide. <i>Nature</i> , 2016 , 529, 377-82	50.4	520
79	Freestanding Bilayer CarbonBulfur Cathode with Function of Entrapping Polysulfide for High Performance LiB Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 1225-1232	15.6	83
78	High-energy-density lithium-ion battery using a carbon-nanotubeBi composite anode and a compositionally graded Li[Ni0.85Co0.05Mn0.10]O2 cathode. <i>Energy and Environmental Science</i> , 2016 , 9, 2152-2158	35.4	221
77	Effect of nickel and iron on structural and electrochemical properties of O3 type layer cathode materials for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 324, 106-112	8.9	37
76	An Alternative Approach to Enhance the Performance of High Sulfur-Loading Electrodes for LiB Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 136-141	20.1	62
75	Nanostructured lithium sulfide materials for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016 , 323, 174-188	8.9	64
74	LiD2 cells with LiBr as an electrolyte and a redox mediator. <i>Energy and Environmental Science</i> , 2016 , 9, 2334-2345	35.4	190
73	Novel Cathode Materials for Na-Ion Batteries Composed of Spoke-Like Nanorods of Na[Ni0.61Co0.12Mn0.27]O2 Assembled in Spherical Secondary Particles. <i>Advanced Functional Materials</i> , 2016 , 26, 8083-8093	15.6	65
72	A comprehensive study of the role of transition metals in O3-type layered Na[NixCoyMnz]O2 (x = 1/3, 0.5, 0.6, and 0.8) cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17952	!- ¹³ 795!	983
71	Vanadium dioxide Reduced graphene oxide composite as cathode materials for rechargeable Li and Na batteries. <i>Journal of Power Sources</i> , 2016 , 326, 522-532	8.9	37

70	Ultrafast sodium storage in anatase TiO2 nanoparticles embedded on carbon nanotubes. <i>Nano Energy</i> , 2015 , 16, 218-226	17.1	112
69	Understanding the behavior of Libxygen cells containing LiI. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8855-8864	13	169
68	NaCrO2 cathode for high-rate sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 2019-20)2 65 .4	239
67	Highly Cyclable Lithium-Sulfur Batteries with a Dual-Type Sulfur Cathode and a Lithiated Si/SiOx Nanosphere Anode. <i>Nano Letters</i> , 2015 , 15, 2863-8	11.5	102
66	ReviewHigh-Capacity Li[Ni1-xCox/2Mnx/2]O2(x= 0.1, 0.05, 0) Cathodes for Next-Generation Li-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2483-A2489	3.9	97
65	Catalytic Behavior of Lithium Nitrate in Li-O2 Cells. ACS Applied Materials & amp; Interfaces, 2015, 7, 165	99.500) 111
64	A sustainable iron-based sodium ion battery of porous carbon E e3O4/Na2FeP2O7 with high performance. <i>RSC Advances</i> , 2015 , 5, 8793-8800	3.7	60
63	The lithium/air battery: still an emerging system or a practical reality?. <i>Advanced Materials</i> , 2015 , 27, 784-800	24	471
62	Advanced Concentration Gradient Cathode Material with Two-Slope for High-Energy and Safe Lithium Batteries. <i>Advanced Functional Materials</i> , 2015 , 25, 4673-4680	15.6	104
61	Carbon-coated Li 4 Ti 5 O 12 nanowires showing high rate capability as an anode material for rechargeable sodium batteries. <i>Nano Energy</i> , 2015 , 12, 725-734	17.1	102
60	Anatase titania nanorods as an intercalation anode material for rechargeable sodium batteries. <i>Nano Letters</i> , 2014 , 14, 416-22	11.5	376
59	Effect of Residual Lithium Compounds on Layer Ni-Rich Li[Ni0.7Mn0.3]O2. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A920-A926	3.9	197
58	Aprotic and aqueous Li-Olbatteries. <i>Chemical Reviews</i> , 2014 , 114, 5611-40	68.1	841
57	The binder effect on an oxide-based anode in lithium and sodium-ion battery applications: the fastest way to ultrahigh performance. <i>Chemical Communications</i> , 2014 , 50, 13307-10	5.8	60
56	Nanorod and nanoparticle shells in concentration gradient core-shell lithium oxides for rechargeable lithium batteries. <i>ChemSusChem</i> , 2014 , 7, 3295-303	8.3	15
55	High electrochemical performances of microsphere C-TiO[anode for sodium-ion battery. <i>ACS Applied Materials & Discrete Applied & Discrete Applied Materials & Discrete Applied & Discrete Applie</i>	9.5	187
54	High Capacity O3-Type Na[Li0.05(Ni0.25Fe0.25Mn0.5)0.95]O2 Cathode for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 6165-6171	9.6	148
53	Advanced Na[Ni0.25Fe0.5Mn0.25]O2/C-Fe3O4 sodium-ion batteries using EMS electrolyte for energy storage. <i>Nano Letters</i> , 2014 , 14, 1620-6	11.5	241

(2011-2014)

52	A lithium-ion sulfur battery based on a carbon-coated lithium-sulfide cathode and an electrodeposited silicon-based anode. <i>ACS Applied Materials & Discounty and Communication (Communication)</i> 10924-8	9.5	108
51	Amorphous iron phosphate: potential host for various charge carrier ions. <i>NPG Asia Materials</i> , 2014 , 6, e138-e138	10.3	180
50	Titanium-Based Anode Materials for Safe Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 959-969	15.6	400
49	A nanostructured cathode architecture for low charge overpotential in lithium-oxygen batteries. <i>Nature Communications</i> , 2013 , 4, 2383	17.4	355
48	Cobalt-free nickel rich layered oxide cathodes for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11434-40	9.5	158
47	An advanced sodium-ion rechargeable battery based on a tin-carbon anode and a layered oxide framework cathode. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3827-33	3.6	81
46	Comparison of the structural and electrochemical properties of layered Li[NixCoyMnz]O2 (x\dip \bar{1}/3, 0.5, 0.6, 0.7, 0.8 and 0.85) cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 233, 121-130	8.9	1191
45	Ruthenium-based electrocatalysts supported on reduced graphene oxide for lithium-air batteries. <i>ACS Nano</i> , 2013 , 7, 3532-9	16.7	348
44	Evidence for lithium superoxide-like species in the discharge product of a Li-O2 battery. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3764-71	3.6	164
43	A contribution to the progress of high energy batteries: A metal-free, lithium-ion, siliconEulfur battery. <i>Journal of Power Sources</i> , 2012 , 202, 308-313	8.9	146
42	Double-structured LiMn(0.85)Fe(0.15)PO4 coordinated with LiFePO4 for rechargeable lithium batteries. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1853-6	16.4	94
41	Nanostructured high-energy cathode materials for advanced lithium batteries. <i>Nature Materials</i> , 2012 , 11, 942-7	27	781
40	Reversible NaFePO4 electrode for sodium secondary batteries. <i>Electrochemistry Communications</i> , 2012 , 22, 149-152	5.1	294
39	Challenges facing lithium batteries and electrical double-layer capacitors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9994-10024	16.4	2149
38	A transmission electron microscopy study of the electrochemical process of lithium-oxygen cells. <i>Nano Letters</i> , 2012 , 12, 4333-5	11.5	102
37	An improved high-performance lithium-air battery. <i>Nature Chemistry</i> , 2012 , 4, 579-85	17.6	909
36	Solid state synthesis of LiFePO4 studied by in situ high energy X-ray diffraction. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5604		40
35	Microscale spherical carbon-coated Li4Ti5O12 as ultra high power anode material for lithium batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 1345	35.4	399

34	Lithium-ion batteries. A look into the future. Energy and Environmental Science, 2011, 4, 3287	35.4	1906
33	Rechargeable lithium sulfide electrode for a polymer tin/sulfur lithium-ion battery. <i>Journal of Power Sources</i> , 2011 , 196, 343-348	8.9	132
32	Micrometer-sized, nanoporous, high-volumetric-capacity LiMn Hell Oltathode material for rechargeable lithium-ion batteries. <i>Advanced Materials</i> , 2011 , 23, 5050-4	24	163
31	Role of surface coating on cathode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7606		477
30	Effect of AlF3 Coating on Thermal Behavior of Chemically Delithiated Li0.35[Ni1/3Co1/3Mn1/3]O2. Journal of Physical Chemistry C, 2010 , 114, 4710-4718	3.8	93
29	High-Performance Carbon-LiMnPO4 Nanocomposite Cathode for Lithium Batteries. <i>Advanced Functional Materials</i> , 2010 , 20, 3260-3265	15.6	277
28	Double carbon coating of LiFePO4 as high rate electrode for rechargeable lithium batteries. <i>Advanced Materials</i> , 2010 , 22, 4842-5	24	329
27	Nanostructured anode material for high-power battery system in electric vehicles. <i>Advanced Materials</i> , 2010 , 22, 3052-7	24	338
26	Role of AlF[sub 3] Coating on LiCoO[sub 2] Particles during Cycling to Cutoff Voltage above 4.5 V. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A1005	3.9	60
25	High-energy cathode material for long-life and safe lithium batteries. <i>Nature Materials</i> , 2009 , 8, 320-4	27	1155
24	Improvement of electrochemical and thermal properties of Li[Ni0.8Co0.1Mn0.1]O2 positive electrode materials by multiple metal (Al, Mg) substitution. <i>Electrochimica Acta</i> , 2009 , 54, 3851-3856	6.7	147
23	Nanoporous Structured LiFePO[sub 4] with Spherical Microscale Particles Having High Volumetric Capacity for Lithium Batteries. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, A181		75
22	Structural, Electrochemical, and Thermal Aspects of Li[(Ni[sub 0.5]Mn[sub 0.5])[sub 1½]Co[sub x]]O[sub 2] (0½D.2) for High-Voltage Application of Lithium-Ion Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A374	3.9	31
21	Structural and Electrochemical Properties of Layered Li[Ni[sub 1½x]Co[sub x]Mn[sub x]]O[sub 2] (x=0.10.3) Positive Electrode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A971	3.9	152
20	Effect of AlF3 coating amount on high voltage cycling performance of LiCoO2. <i>Electrochimica Acta</i> , 2007 , 53, 1013-1019	6.7	99
19	Improvement of Electrochemical Performances of Li[Ni[sub 0.8]Co[sub 0.1]Mn[sub 0.1]]O[sub 2] Cathode Materials by Fluorine Substitution. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A649	3.9	121
18	Physical and Electrochemical Properties of Li [Ni0.4Cox Mn0.6	3.9	31
17	Synthesis of Li[(Ni0.5Mn0.5)1-xLix]O2 by Emulsion Drying Method and Impact of Excess Li on Structural and Electrochemical Properties. <i>Chemistry of Materials</i> , 2006 , 18, 1658-1666	9.6	73

LIST OF PUBLICATIONS

16	Synthesis and electrochemical properties of Li[Ni0.8Co0.1Mn0.1]O2 and Li[Ni0.8Co0.2]O2 via co-precipitation. <i>Journal of Power Sources</i> , 2006 , 159, 1328-1333	8.9	200
15	Synthesis and improved electrochemical performance of Al (OH)3-coated Li[Ni1/3Mn1/3Co1/3]O2 cathode materials at elevated temperature. <i>Electrochimica Acta</i> , 2005 , 50, 4168-4173	6.7	78
14	Low-Temperature Synthesis of LixMn0.67Ni0.33O2 (0.2 . Advanced Materials, 2005, 17, 2834-2837	24	55
13	Synthesis and electrochemical properties of layered LiNi1/2Mn1/2O2prepared by coprecipitation. <i>Journal of Applied Electrochemistry</i> , 2005 , 35, 151-156	2.6	16
12	Synthetic optimization of Li[Ni1/3Co1/3Mn1/3]O2 via co-precipitation. <i>Electrochimica Acta</i> , 2004 , 50, 939-948	6.7	461
11	Comparative Study of LiNi0.5Mn1.5O4-land LiNi0.5Mn1.5O4 Cathodes Having Two Crystallographic Structures: Fd3 m and P4332. <i>Chemistry of Materials</i> , 2004 , 16, 906-914	9.6	603
10	Electrochemical properties of layered Li[Ni1/2Mn1/2]O2 cathode material synthesised by ultrasonic spray pyrolysis. <i>Journal of Applied Electrochemistry</i> , 2003 , 33, 1169-1173	2.6	6
9	Li(Ni1/3Co1/3Mn1/3)O2 as a suitable cathode for high power applications. <i>Journal of Power Sources</i> , 2003 , 123, 247-252	8.9	270
8	Electrochemical performance of layered Li[Li0.15Ni0.275MgxMn0.575]O2 cathode materials for lithium secondary batteries. <i>Journal of Materials Chemistry</i> , 2003 , 13, 319-322		58
7	Synthesis and electrochemical performance of layered Li[Li(1½x)/3Ni x Mn(2½)/3]O2 cathode materials for lithium secondary batteries. <i>Journal of Applied Electrochemistry</i> , 2002 , 32, 1053-1056	2.6	
6	Effect of oxygen flow rate on the structural and electrochemical properties of lithium nickel oxides synthesized by the solgel method. <i>Journal of Applied Electrochemistry</i> , 2002 , 32, 1229-1233	2.6	7
5	Structural and electrochemical characteristics of nano-structured Li0.53Na0.03MnO2 manganese oxide prepared by the solgel method. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3827-3831		7
4	Synthesis and electrochemical characterization of a new Se-doped spinel material for lithium secondary batteries 2001 , 31, 1149-1153		40
3	Degradation mechanism of spinel LiAl0.2Mn1.8O4 cathode materials on high temperature cycling. Journal of Materials Chemistry, 2001 , 11, 2519-2522		57
2	High-Energy Cathodes via Precision Microstructure Tailoring for Next-Generation Electric Vehicles. <i>ACS Energy Letters</i> ,4195-4202	20.1	9
1	High-Energy Ni-Rich Cathode Materials for Long-Range and Long-Life Electric Vehicles. <i>Advanced Energy Materials</i> ,2200615	21.8	6