Yang-Kook Sun

List of PR Articles by Year
in descending order

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661 PR articles	81,248 PR citations	102 145 PR h-index	238 275 g-index
709 documents	94241 doc citations	141 153 h-index	33539 citing authors

#	Article	IF	PR Citations
1	Hierarchical Nanowire Host Material for Highâ€Arealâ€Capacity Allâ€Solidâ€State S/SeS₂ Batteries. Advanced Functional Materials, 2025, 35, .	17.0	7
2	Improving Cycling Stability of Niâ€Rich Cathode for Lithiumâ€Metal Batteries via Interphases Tunning. Advanced Energy Materials, 2025, 15, .	22.6	15
3	Forming Robust and Highly Liâ€Ion Conductive Interfaces in Highâ€Performance Lithium Metal Batteries Using Chloroethylene Carbonate Additive. Advanced Energy and Sustainability Research, 2024, 5, .	5.5	11
4	Mechanism Behind the Loss of Fast Charging Capability in Nickelâ€Rich Cathode Materials. Angewandte Chemie, 2024, 136, .	1.4	0
5	Mechanism Behind the Loss of Fast Charging Capability in Nickelâ€Rich Cathode Materials. Angewandte Chemie - International Edition, 2024, 63, .	14.4	36
6	Doping Strategy in Developing Ni-Rich Cathodes for High-Performance Lithium-Ion Batteries. ACS Energy Letters, 2024, 9, 740-747.	17.0	91
7	Heterostructured nickelâ€“cobalt metal alloy and metal oxide nanoparticles as a polysulfide mediator for stable lithiumâ€“sulfur full batteries with lean electrolyte. , 2024, 6, .		32
8	Constructing the Interconnected Charge Transfer Pathways in Sulfur Composite Cathode for All-Solid-State Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2024, 16, 11076-11083.	8.0	19
9	High Voltage Electrolyte Design Mediated by Advanced Solvation Chemistry Toward High Energy Density and Fast Charging Lithiumâ€Ion Batteries. Advanced Energy Materials, 2024, 14, .	22.6	127
10	Investigation of treatment volume versus circulating blood volume during Rheocarna treatment. Therapeutic Apheresis and Dialysis, 2024, 28, 505-510.	1.0	2
11	Unraveling the New Role of Manganese in Nano and Microstructural Engineering of Niâ€Rich Layered Cathode for Advanced Lithiumâ€Ion Batteries. Advanced Energy Materials, 2024, 14, .	22.6	31
12	Experimental and computational optimization of Prussian blue analogues as high-performance cathodes for sodium-ion batteries: A review. Journal of Energy Chemistry, 2024, 93, 627-662.	14.3	49
13	Wetâ€Processable Binder in Composite Cathode for High Energy Density Allâ€Solidâ€State Lithium Batteries. Advanced Energy Materials, 2024, 14, .	22.6	18
14	Tailoring Primary Particle Size Distribution to Suppress Microcracks in Ni-Rich Cathodes via Controlled Grain Coarsening. ACS Energy Letters, 2024, 9, 3595-3604.	17.0	27
15	Aluminum-distribution-dependent microstructural evolution of NCA cathodes: Is aluminum homogeneity really favorable?. Energy Storage Materials, 2024, 70, 103496.	18.1	6
16	Pore-Free Single-Crystalline Particles for Durable Na-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2024, 16, 44737-44746.	8.0	10
17	Improving reaction uniformity of highâ€loading lithiumâ€sulfur pouch batteries. , 2024, 6, .		21
18	Toward Practical Liâ€“S Batteries: On the Road to a New Electrolyte. Advanced Energy Materials, 2024, 14, .	22.6	49

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19	Microstructure- and Interface-Modified Ni-Rich Cathode for High-Energy-Density All-Solid-State Lithium Batteries. ACS Energy Letters, 2023, 8, 809-817.	17.0	70
20	Longâ€lasting, reinforced electrical networking in a highâ€loading Li₂S cathode for highâ€performance lithiumâ€“sulfur batteries. , 2023, 5, .		32
21	Long-Lasting Ni-Rich NCMA Cathodes via Simultaneous Microstructural Refinement and Surface Modification. ACS Energy Letters, 2023, 8, 1354-1361.	17.0	113
22	Multifunctional Doping Strategy to Develop Highâ€Performance Niâ€Rich Cathode Material. Advanced Energy Materials, 2023, 13, .	22.6	77
23	Optimization of Ni-rich Li[Ni0.92âˆ’xCo0.04Mn0.04Alx]O2 cathodes for high energy density lithium-ion batteries. Journal of Power Sources, 2023, 564, 232850.	7.9	26
24	High-Energy-Density, Long-Life Li-Metal Batteries via Application of External Pressure. ACS Energy Letters, 2023, 8, 2970-2978.	17.0	38
25	Turning on Lithiumâ€“Sulfur Full Batteries at âˆ’10 Â°C. ACS Nano, 2023, 17, 14032-14042.	15.3	19
26	Mechanism of Doping with Highâ€Valence Elements for Developing Niâ€Rich Cathode Materials. Advanced Energy Materials, 2023, 13, .	22.6	150
27	High-voltage stability of O3-type sodium layered cathode enabled by preferred occupation of Na in the OP2 phase. Energy Storage Materials, 2023, 61, 102908.	18.1	42
28	Opening a New Horizon for the Facile Synthesis of Long-Life Ni-Rich Layered Cathode. ACS Energy Letters, 2023, 8, 3784-3792.	17.0	41
29	Tailoring the Interface between Sulfur and Sulfide Solid Electrolyte for High-Areal-Capacity All-Solid-State Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2023, 8, 3971-3979.	17.0	60
30	Practical Cathodes for Sodiumâ€Ion Batteries: Who Will Take The Crown?. Advanced Energy Materials, 2023, 13, .	22.6	254
31	Ni-rich layered cathodes for lithium-ion batteries: From challenges to the future. Energy Storage Materials, 2023, 63, 102969.	18.1	142
32	Near-surface reconstruction in Ni-rich layered cathodes for high-performance lithium-ion batteries. Nature Energy, 2023, 9, 47-56.	50.9	188
33	Intergranular Shielding for Ultrafineâ€Grained Moâ€Doped Niâ€Rich Li[Ni_{0.96}Co_{0.04}]O₂ Cathode for Liâ€Ion Batteries with High Energy Density and Long Life. Angewandte Chemie - International Edition, 2023, 62, .	14.4	41
34	Intergranular Shielding for Ultrafineâ€Grained Moâ€Doped Niâ€Rich Li[Ni_{0.96}Co_{0.04}]O₂ Cathode for Liâ€Ion Batteries with High Energy Density and Long Life. Angewandte Chemie, 2023, 135, .	1.4	4
35	Uniformly distributed reaction by 3D host-lithium composite anode for high rate capability and reversibility of Li-O2 batteries. Chemical Engineering Journal, 2022, 427, 130914.	12.0	16
36	Microstructure-optimized concentration-gradient NCM cathode for long-life Li-ion batteries. Materials Today, 2022, 52, 9-18.	14.0	112

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37	All-Solid-State Lithium Batteries: Li⁺-Conducting Ionomer Binder for Dry-Processed Composite Cathodes. ACS Energy Letters, 2022, 7, 1092-1100.	17.0	143
38	Intrinsic weaknesses of Co-free Niâ€“Mn layered cathodes for electric vehicles. Materials Today, 2022, 56, 8-15.	14.0	50
39	Hierarchical O3/P2 heterostructured cathode materials for advanced sodium-ion batteries. Energy Storage Materials, 2022, 47, 515-525.	18.1	176
40	Stable Solid Electrolyte Interphase for Long-Life Potassium Metal Batteries. ACS Energy Letters, 2022, 7, 401-409.	17.0	51
41	Geometrical engineering of a SPANâ€“graphene composite cathode for practical Liâ€“S batteries. Journal of Materials Chemistry A, 2022, 10, 10844-10853.	9.3	35
42	Evolution of a Radially Aligned Microstructure in Boron-Doped Li[Ni_{0.95}Co_{0.04}Al_{0.01}]O₂ Cathode Particles. ACS Applied Materials & Interfaces, 2022, 14, 17500-17508.	8.0	40
43	Highâ€Energy Niâ€Rich Cathode Materials for Longâ€Range and Longâ€Life Electric Vehicles. Advanced Energy Materials, 2022, 12, .	22.6	102
44	Degradation Mechanism of Ni-Rich Cathode Materials: Focusing on Particle Interior. ACS Energy Letters, 2022, 7, 2362-2369.	17.0	247
45	All-solid-state lithium batteries featuring hybrid electrolytes based on Li+ ion-conductive Li7La3Zr2O12 framework and full-concentration gradient Ni-rich NCM cathode. Chemical Engineering Journal, 2022, 450, 138043.	12.0	27
46	Structural Stability of Single-Crystalline Ni-Rich Layered Cathode upon Delithiation. ACS Energy Letters, 2022, 7, 2919-2926.	17.0	74
47	Morphology-Dependent Battery Performance of Ni-Rich Layered Cathodes: Single-Crystal versus Refined Polycrystal. ACS Energy Letters, 2022, 7, 3072-3079.	17.0	90
48	A Novel Pentanary Metal Oxide Cathode with P2/O3 Biphasic Structure for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	17.0	160
49	Introducing high-valence elements into cobalt-free layered cathodes for practical lithium-ion batteries. Nature Energy, 2022, 7, 946-954.	50.9	341
50	Dipoleâ€“Dipole Interaction Induced Electrolyte Interfacial Model To Stabilize Antimony Anode for High-Safety Lithium-Ion Batteries. ACS Energy Letters, 2022, 7, 3545-3556.	17.0	174
51	Resolving the Incomplete Charging Behavior of Redox-Mediated Li-O₂ Batteries via Sustainable Protection of Li Metal Anode. ACS Applied Materials & Interfaces, 2022, 14, 45945-45953.	8.0	8
52	Discerning Roles of Interfacial Model and Solid Electrolyte Interphase Layer for Stabilizing Antimony Anode in Lithium-Ion Batteries. , 2022, 4, 2233-2243.		66
53	High-Energy-Density Li-Ion Battery Reaching Full Charge in 12 min. ACS Energy Letters, 2022, 7, 3880-3888.	17.0	73
54	Nanostructured Coâ€Free Layered Oxide Cathode that Affords Fastâ€Charging Lithiumâ€Ion Batteries for Electric Vehicles. Advanced Energy Materials, 2022, 12, .	22.6	58

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55	Enhanced cycling stability of Sn-doped Li[Ni0.90Co0.05Mn0.05]O2 via optimization of particle shape and orientation. Chemical Engineering Journal, 2021, 405, 126887.	12.0	71
56	Diverting Exploration of Silicon Anode into Practical Way: A Review Focused on Silicon-Graphite Composite for Lithium Ion Batteries. Energy Storage Materials, 2021, 35, 550-576.	18.1	471
57	Unraveling the New Role of an Ethylene Carbonate Solvation Shell in Rechargeable Metal Ion Batteries. ACS Energy Letters, 2021, 6, 69-78.	17.0	185
58	Lithiumâ€Substituted Tunnel/Spinel Heterostructured Cathode Material for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, .	17.0	43
59	Microstrain Alleviation in High-Energy Ni-Rich NCMA Cathode for Long Battery Life. ACS Energy Letters, 2021, 6, 216-223.	17.0	118
60	WO3 Nanowire/Carbon Nanotube Interlayer as a Chemical Adsorption Mediator for High-Performance Lithium-Sulfur Batteries. Molecules, 2021, 26, 377.	4.3	19
61	Cation ordered Ni-rich layered cathode for ultra-long battery life. Energy and Environmental Science, 2021, 14, 1573-1583.	30.9	163
62	Electrolyteâ€Mediated Stabilization of Highâ€Capacity Microâ€Sized Antimony Anodes for Potassiumâ€Ion Batteries. Advanced Materials, 2021, 33, .	24.5	140
63	Optimized Niâ€Rich NCMA Cathode for Electric Vehicle Batteries. Advanced Energy Materials, 2021, 11, .	22.6	124
64	Enhanced Cycling Stability of O3-Type Na[Ni_{0.5}Mn_{0.5}]O₂ Cathode through Sn Addition for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 6593-6600.	3.1	26
65	Critical Role of Functional Groups Containing N, S, and O on Graphene Surface for Stable and Fast Charging Liâ€S Batteries. Small, 2021, 17, .	11.6	39
66	Long-Lasting Solid Electrolyte Interphase for Stable Li-Metal Batteries. ACS Energy Letters, 2021, 6, 2153-2161.	17.0	52
67	Microstructure Engineered Niâ€Rich Layered Cathode for Electric Vehicle Batteries. Advanced Energy Materials, 2021, 11, .	22.6	156
68	Electrolyte Chemistry in 3D Metal Oxide Nanorod Arrays Deciphers Lithium Dendrite-Free Plating/Stripping Behaviors for High-Performance Lithium Batteries. Journal of Physical Chemistry Letters, 2021, 12, 4857-4866.	4.2	29
69	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. Energy Storage Materials, 2021, 38, 344-353.	18.1	38
70	Capacity Fading Mechanisms in Ni-Rich Single-Crystal NCM Cathodes. ACS Energy Letters, 2021, 6, 2726-2734.	17.0	522
71	Achieving High-Performance Liâ€“S Batteries via Polysulfide Adjoining Interface Engineering. ACS Applied Materials & Interfaces, 2021, 13, 39435-39445.	8.0	31
72	Multiscale Understanding of Covalently Fixed Sulfurâ€“Polyacrylonitrile Composite as Advanced Cathode for Metalâ€“Sulfur Batteries. Advanced Science, 2021, 8, .	12.7	49

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73	Gifts from Nature: Bioâ€Inspired Materials for Rechargeable Secondary Batteries. Advanced Materials, 2021, 33, .	24.5	80
74	Interfacial Model Deciphering Highâ€Voltage Electrolytes for High Energy Density, High Safety, and Fastâ€Charging Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, .	24.5	229
75	Cationic and transition metal co-substitution strategy of O3-type NaCrO2 cathode for high-energy sodium-ion batteries. Energy Storage Materials, 2021, 41, 183-195.	18.1	76
76	Ultra-stable cycling of multi-doped (Zr,B) Li[Ni0.885Co0.100Al0.015]O2 cathode. Journal of Power Sources, 2021, 513, 230548.	7.9	33
77	State-of-the-art anodes of potassium-ion batteries: synthesis, chemistry, and applications. Chemical Science, 2021, 12, 7623-7655.	7.1	39
78	High-performance Ni-rich Li[Ni_{0.9â€“x}Co_{0.1}Al_x]O₂ cathodes via multi-stage microstructural tailoring from hydroxide precursor to the lithiated oxide. Energy and Environmental Science, 2021, 14, 5084-5095.	30.9	99
79	In Situ Oriented Mn Deficient ZnMn₂O₄@C Nanoarchitecture for Durable Rechargeable Aqueous Zincâ€Ion Batteries. Advanced Science, 2021, 8, .	12.7	149
80	Quasi-compensatory effect in emerging anode-free lithium batteries. EScience, 2021, 1, 3-12.	32.1	84
81	High-Energy Cathodes via Precision Microstructure Tailoring for Next-Generation Electric Vehicles. ACS Energy Letters, 2021, 6, 4195-4202.	17.0	104
82	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. Nature Communications, 2021, 12, .	13.9	386
83	Ultrafine-grained Ni-rich layered cathode for advanced Li-ion batteries. Energy and Environmental Science, 2021, 14, 6616-6626.	30.9	184
84	Facile migration of potassium ions in a ternary P3-type K0.5[Mn0.8Fe0.1Ni0.1]O2 cathode in rechargeable potassium batteries. Energy Storage Materials, 2020, 25, 714-723.	18.1	86
85	Controllable and stable organometallic redox mediators for lithium oxygen batteries. Materials Horizons, 2020, 7, 214-222.	10.3	23
86	Na_{2.3}Cu_{1.1}Mn₂O₇ nanoflakes as enhanced cathode materials for high-energy sodium-ion batteries achieved by a rapid pyrosynthesis approach. Journal of Materials Chemistry A, 2020, 8, 770-778.	9.3	24
87	The dominant role of Mn2+ additive on the electrochemical reaction in ZnMn2O4 cathode for aqueous zinc-ion batteries. Energy Storage Materials, 2020, 28, 407-417.	18.1	287
88	Cobaltâ€Free Highâ€Capacity Niâ€Rich Layered Li[Ni_{0.9}Mn_{0.1}]O₂ Cathode. Advanced Energy Materials, 2020, 10, .	22.6	244
89	Niâ€Rich Layered Cathode Materials with Electrochemoâ€Mechanically Compliant Microstructures for Allâ€Solidâ€State Li Batteries. Advanced Energy Materials, 2020, 10, .	22.6	221
90	Nano/Microstructured Siliconâ€“Carbon Hybrid Composite Particles Fabricated with Corn Starch Biowaste as Anode Materials for Li-Ion Batteries. Nano Letters, 2020, 20, 625-635.	8.7	247

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91	High-Energy W-Doped Li[Ni0.95Co0.04Al0.01]O2 Cathodes for Next-Generation Electric Vehicles. Energy Storage Materials, 2020, 33, 399-407.	18.1	154
92	Recent Progress and Perspective of Advanced Highâ€Energy Coâ€Less Niâ€Rich Cathodes for Liâ€Ion Batteries: Yesterday, Today, and Tomorrow. Advanced Energy Materials, 2020, 10, .	22.6	353
93	Role of Liâ€Ion Depletion on Electrode Surface: Underlying Mechanism for Electrodeposition Behavior of Lithium Metal Anode. Advanced Energy Materials, 2020, 10, .	22.6	165
94	Investigation of superior sodium storage and reversible Na₂S conversion reactions in a porous NiS₂@C composite using in operando X-ray diffraction. Journal of Materials Chemistry A, 2020, 8, 24401-24407.	9.3	26
95	Model-Based Design of Graphite-Compatible Electrolytes in Potassium-Ion Batteries. ACS Energy Letters, 2020, 5, 2651-2661.	17.0	124
96	Understanding the Capacity Fading Mechanisms of O3â€Type Na[Ni_{0.5}Mn_{0.5}]O₂ Cathode for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, .	22.6	131
97	Model-Based Design of Stable Electrolytes for Potassium Ion Batteries. ACS Energy Letters, 2020, 5, 3124-3131.	17.0	107
98	Heuristic solution for achieving long-term cycle stability for Ni-rich layered cathodes at full depth of discharge. Nature Energy, 2020, 5, 860-869.	50.9	480
99	Tungsten Oxide/Zirconia as a Functional Polysulfide Mediator for High-Performance Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2020, 5, 3168-3175.	17.0	60
100	Additives Engineered Nonflammable Electrolyte for Safer Potassium Ion Batteries. Advanced Functional Materials, 2020, 30, .	17.0	130
101	Co-Free Layered Cathode Materials for High Energy Density Lithium-Ion Batteries. ACS Energy Letters, 2020, 5, 1814-1824.	17.0	164
102	Oxidation Stability of Organic Redox Mediators as Mobile Catalysts in Lithiumâ€“Oxygen Batteries. ACS Energy Letters, 2020, 5, 2122-2129.	17.0	39
103	New Class of Niâ€Rich Cathode Materials Li[Ni_xCo_yB_{1â^'}_x_{â^'}_y_{/2}]O₂ for Next Lithium Batteries. Advanced Energy Materials, 2020, 10, .	22.6	167
104	Multidimensional Na₄VMn_{0.9}Cu_{0.1}(PO₄)₃/C cotton-candy cathode materials for high energy Na-ion batteries. Journal of Materials Chemistry A, 2020, 8, 12055-12068.	9.3	86
105	Multi-Doped (Ga,B) Li[Ni_{0.885}Co_{0.100}Al_{0.015}]O₂Cathode. Journal of the Electrochemical Society, 2020, 167, 100557.	3.1	16
106	High-energy O3-Na_{1â^'2x}Ca_x[Ni_{0.5}Mn_{0.5}]O₂ cathodes for long-life sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 13776-13786.	9.3	107
107	Perpendicularly aligned TiC-coated carbon cloth cathode for high-performance Li-O2 batteries. Chemical Engineering Journal, 2020, 399, 125699.	12.0	19
108	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. ACS Energy Letters, 2020, 5, 2376-2400.	17.0	450

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109	Density Functional Theory Investigation of Mixed Transition Metals in Olivine and Tavorite Cathode Materials for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 16376-16386.	8.0	39
110	Lithiumâ€"Oxygen Batteries and Related Systems: Potential, Status, and Future. Chemical Reviews, 2020, 120, 6626-6683.	52.7	886
111	Investigation of K-ion storage performances in a bismuth sulfide-carbon nanotube composite anode. RSC Advances, 2020, 10, 6536-6539.	4.4	7
112	A highly stabilized Ni-rich NCA cathode for high-energy lithium-ion batteries. Materials Today, 2020, 36, 73-82.	14.0	236
113	Limited effects of a redox mediator in lithiumâ€"oxygen batteries: indecomposable by-products. Journal of Materials Chemistry A, 2020, 8, 5622-5628.	9.3	18
114	Electrolyte Engineering Enables High Stability and Capacity Alloying Anodes for Sodium and Potassium Ion Batteries. ACS Energy Letters, 2020, 5, 766-776.	17.0	197
115	An Empirical Model for the Design of Batteries with High Energy Density. ACS Energy Letters, 2020, 5, 807-816.	17.0	176
116	Development of Novel Cathode with Large Lithium Storage Mechanism Based on Pyrophosphateâ€Based Conversion Reaction for Rechargeable Lithium Batteries. Small Methods, 2020, 4, .	9.0	7
117	Toward the Sustainable Lithium Metal Batteries with a New Electrolyte Solvation Chemistry. Advanced Energy Materials, 2020, 10, .	22.6	154
118	Quasi-solid-state zinc-ion battery based on Î±-MnO2 cathode with husk-like morphology. Electrochimica Acta, 2020, 345, 136189.	5.3	35
119	Engineering Sodium-Ion Solvation Structure to Stabilize Sodium Anodes: Universal Strategy for Fast-Charging and Safer Sodium-Ion Batteries. Nano Letters, 2020, 20, 3247-3254.	8.7	149
120	A New Type of Ni-Rich Cathode for High-Energy Lithium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 72-72.	0.0	0
121	Microstructure-Tailored Ni-Rich NCA Cathode for Next Electric Vehicles. ECS Meeting Abstracts, 2020, MA2020-02, 70-70.	0.0	0
122	A 4 V Class Potassium Metal Battery with Extremely Low Overpotential. ACS Nano, 2019, 13, 9306-9314.	15.3	102
123	Mutual Conservation of Redox Mediator and Singlet Oxygen Quencher in Lithiumâ€"Oxygen Batteries. ACS Catalysis, 2019, 9, 9914-9922.	12.4	44
124	Degradation Mechanism of Highly Ni-Rich Li[Ni_xCo_yMn_{1â€"xâ€"y}]O₂ Cathodes with x > 0.9. ACS Applied Materials & Interfaces, 2019, 11, 30936-30942.	8.0	218
125	Highly wrinkled carbon tubes as an advanced anode for K-ion full batteries. Journal of Materials Chemistry A, 2019, 7, 20675-20682.	9.3	33
126	Suppressing detrimental phase transitions via tungsten doping of LiNiO₂ cathode for next-generation lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18580-18588.	9.3	247

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127	A single layer of Fe₃O₄@TiO₂ submicron spheres as a high-performance electrode for lithium-ion microbatteries. Sustainable Energy and Fuels, 2019, 3, 2675-2687.	3.9	11
128	Li[Ni_{0.9}Co_{0.09}W_{0.01}]O₂: A New Type of Layered Oxide Cathode with High Cycling Stability. Advanced Energy Materials, 2019, 9, .	22.6	156
129	Tungsten doping for stabilization of Li[Ni0.90Co0.05Mn0.05]O2 cathode for Li-ion battery at high voltage. Journal of Power Sources, 2019, 442, 227242.	7.9	180
130	New Insight on the Role of Electrolyte Additives in Rechargeable Lithium Ion Batteries. ACS Energy Letters, 2019, 4, 2613-2622.	17.0	265
131	Nano-compacted Li₂S/Graphene Composite Cathode for High-Energy Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2019, 4, 2787-2795.	17.0	45
132	Layered K_{0.28}MnO₂Â·0.15H₂O as a Cathode Material for Potassium-Ion Intercalation. ACS Applied Materials & Interfaces, 2019, 11, 43312-43319.	8.0	32
133	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. ACS Energy Letters, 2019, 4, 2995-3001.	17.0	455
134	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.	9.3	84
135	A method of increasing the energy density of layered Ni-rich Li[Ni_{1â^’2x}Co_xMn_x]O₂ cathodes (x = 0.05, 0.1,) Tj ETQq1 1 0.784314 rgBT	9.3	438
136	A dendrite- and oxygen-proof protective layer for lithium metal in lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2019, 7, 3857-3862.	9.3	75
137	Understanding on the structural and electrochemical performance of orthorhombic sodium manganese oxides. Journal of Materials Chemistry A, 2019, 7, 202-211.	9.3	52
138	Quaternary Layered Ni-Rich NCMA Cathode for Lithium-Ion Batteries. ACS Energy Letters, 2019, 4, 576-582.	17.0	306
139	Potassium vanadate as a new cathode material for potassium-ion batteries. Journal of Power Sources, 2019, 432, 24-29.	7.9	60
140	Adiponitrile (C₆H₈N₂): A New Biâ€Functional Additive for Highâ€Performance Liâ€Metal Batteries. Advanced Functional Materials, 2019, 29, .	17.0	176
141	Degradation Mechanism of Ni-Enriched NCA Cathode for Lithium Batteries: Are Microcracks Really Critical?. ACS Energy Letters, 2019, 4, 1394-1400.	17.0	377
142	Customizing a Liâ€“metal battery that survives practical operating conditions for electric vehicle applications. Energy and Environmental Science, 2019, 12, 2174-2184.	30.9	165
143	Molecular-Scale Interfacial Model for Predicting Electrode Performance in Rechargeable Batteries. ACS Energy Letters, 2019, 4, 1584-1593.	17.0	181
144	Trimethylsilyl azide (C₃H₉N₃Si): a highly efficient additive for tailoring fluoroethylene carbonate (FEC) based electrolytes for Li-metal batteries. Journal of Materials Chemistry A, 2019, 7, 13441-13448.	9.3	44

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145	K0.54[Co0.5Mn0.5]O2: New cathode with high power capability for potassium-ion batteries. Nano Energy, 2019, 61, 284-294.	16.3	160
146	Deactivation of redox mediators in lithium-oxygen batteries by singlet oxygen. Nature Communications, 2019, 10, .	13.9	95
147	High-performance Ti-doped O3-type Na[Tix(Ni0.6Co0.2Mn0.2)1-x]O2 cathodes for practical sodium-ion batteries. Journal of Power Sources, 2019, 422, 1-8.	7.9	81
148	A New P2â€Type Layered Oxide Cathode with Extremely High Energy Density for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, .	22.6	213
149	Triple Hierarchical Porous Carbon Spheres as Effective Cathodes for Liâ€“O₂ Batteries. Journal of the Electrochemical Society, 2019, 166, A455-A463.	3.1	9
150	Verification for trihalide ions as redox mediators in Li-O2 batteries. Energy Storage Materials, 2019, 19, 148-153.	18.1	30
151	Microstructureâ€Controlled Niâ€Rich Cathode Material by Microscale Compositional Partition for Nextâ€Generation Electric Vehicles. Advanced Energy Materials, 2019, 9, .	22.6	236
152	Compositionally and structurally redesigned high-energy Ni-rich layered cathode for next-generation lithium batteries. Materials Today, 2019, 23, 26-36.	14.0	159
153	A zero fading sodium ion battery: High compatibility microspherical patronite in ether-based electrolyte. Energy Storage Materials, 2019, 19, 270-280.	18.1	33
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