Yong Yang

List of Publications by Year in descending order

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400 papers	24,127 citations	6124 83 h-index	15253 130 g-index
413 all docs	413 docs citations	413 times ranked	21257 citing authors

#	Article	IF	Citations
1	Modification of NASICON Electrolyte and Its Application in Real Na-Ion Cells. Engineering, 2022, 8, 170-180.	3.2	12
2	â€œSeries and parallelâ€•design of ether linkage and imidazolium cation synergistically regulated four-armed polymerized ionic liquid for all-solid-state polymer electrolyte. Chinese Chemical Letters, 2022, 33, 1407-1411.	4.8	10
3	The origins of kinetics hysteresis and irreversibility of monoclinic Li3V2(PO4)3. Journal of Energy Chemistry, 2022, 67, 593-603.	7.1	4
4	Insights into the local structure, microstructure and ionic conductivity of silicon doped NASICON-type solid electrolyte Li1.3Al0.3Ti1.7P3O12. Energy Storage Materials, 2022, 44, 190-196.	9.5	30
5	Exploring hybrid Mg2+/H+ reactions of C@MgMnSiO4 with boosted voltage in magnesium-ion batteries. Electrochimica Acta, 2022, 404, 139738.	2.6	10
6	Tuning interface stability of nickel-rich LiNi0.9Co0.05Mn0.05O2 cathode via a novel bis(vinylsulphonyl)methane additive. Journal of Power Sources, 2022, 521, 230917.	4.0	18
7	Regulating Interfacial Liâ€Ion Transport via an Integrated Corrugated 3D Skeleton in Solid Composite Electrolyte for Allâ€Solidâ€State Lithium Metal Batteries. Advanced Science, 2022, 9, e2104506.	5.6	18
8	Enabling Fast Na⁺ Transfer Kinetics in the Wholeâ€Voltageâ€Region of Hardâ€Carbon Anodes for Ultrahighâ€Rate Sodium Storage. Advanced Materials, 2022, 34, e2109282.	11.1	108
9	Improving interfacial stability of high voltage LiCoO2-based cells with 4-methylmorpholine-2,6-dione additive. Journal of Power Sources, 2022, 524, 231049.	4.0	15
10	Highly stable operation of LiCoO2 at cut-off â‰¥ 4.6ÂV enabled by synergistic structural and interfacial manipulation. Energy Storage Materials, 2022, 46, 406-416.	9.5	48
11	Size-Dependent Chemomechanical Failure of Sulfide Solid Electrolyte Particles during Electrochemical Reaction with Lithium. Nano Letters, 2022, 22, 411-418.	4.5	20
12	Poly(ionic liquid)@PEGMA Block Polymer Initiated Microphase Separation Architecture in Poly(ethylene oxide)-Based Solid-State Polymer Electrolyte for Flexible and Self-Healing Lithium Batteries. ACS Sustainable Chemistry and Engineering, 2022, 10, 4173-4185.	3.2	23
13	Synergistical Stabilization of Li Metal Anodes and LiCoO₂ Cathodes in High-Voltage Liâ¥LiCoO₂ Batteries by Potassium Selenocyanate (KSeCN) Additive. ACS Energy Letters, 2022, 7, 1364-1373.	8.8	49
14	The Contrasting Impacts of the Al₂O₃ and Y₂O₃ Insertion Layers on the Crystallization of ZrO₂ Films for Dynamic Random Access Memory Capacitors. Advanced Electronic Materials, 2022, 8, .	2.6	4
15	Pushing Lithium Cobalt Oxides to 4.7ÂV by Latticeâ€Matched Interfacial Engineering. Advanced Energy Materials, 2022, 12, .	10.2	77
16	Temperature-dependence of calcination processes of Ni-rich layered oxides. Journal of Power Sources, 2022, 529, 231258.	4.0	3
17	A Cubic Mg2MnO4 Cathode for non-aqueous Magnesium Batteries. Energy Storage Materials, 2022, 48, 12-19.	9.5	14
18	Boosting high voltage cycling of LiCoO2 cathode via triisopropanolamine cyclic borate electrolyte additive. Journal of Power Sources, 2022, 532, 231372.	4.0	14

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19	Dictating the interfacial stability of nickel-rich LiNi0.90Co0.05Mn0.05O2 via a diazacyclo electrolyte additive â€“ 2-Fluoropyrazine. Journal of Colloid and Interface Science, 2022, 618, 431-441.	5.0	10
20	Stable cycling and fast charging of high-voltage lithium metal batteries enabled by functional solvation chemistry. Chemical Engineering Journal, 2022, 442, 136351.	6.6	23
21	Substantially Promoted Energy Density of Li||CF_x Primary Battery Enabled by Li⁺-DMP Coordinated Structure. ACS Sustainable Chemistry and Engineering, 2022, 10, 6217-6229.	3.2	9
22	Sieving carbons promise practical anodes with extensible low-potential plateaus for sodium batteries. National Science Review, 2022, 9, .	4.6	55
23	Guidelines for Air-Stable Lithium/Sodium Layered Oxide Cathodes. , 2022, 4, 1074-1086.		17
24	Combining NMR and molecular dynamics simulations for revealing the alkali-ion transport in solid-state battery materials. Current Opinion in Electrochemistry, 2022, 35, 101048.	2.5	1
25	Synthesis, Structure, Electrochemical Mechanisms, and Atmospheric Stability of Mn-Based Layered Oxide Cathodes for Sodium Ion Batteries. Accounts of Materials Research, 2022, 3, 709-720.	5.9	32
26	A machine learning protocol for revealing ion transport mechanisms from dynamic NMR shifts in paramagnetic battery materials. Chemical Science, 2022, 13, 7863-7872.	3.7	10
27	Mitigating the Surface Reconstruction of Ni-Rich Cathode via P2-Type Mn-Rich Oxide Coating for Durable Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 30398-30409.	4.0	7
28	In Situ Construction of a LiF-Enriched Interfacial Modification Layer for Stable All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2022, 14, 29878-29885.	4.0	5
29	Promoting the performances of P2-type sodium layered cathode by inducing Na site rearrangement. Nano Energy, 2022, 100, 107482.	8.2	25
30	Highly reversible Li₂RuO₃ cathodes in sulfide-based all solid-state lithium batteries. Energy and Environmental Science, 2022, 15, 3470-3482.	15.6	17
31	Enhanced Cyclability of Lithium Metal Anodes Enabled by Anti-aggregation of Lithiophilic Seeds. Nano Letters, 2022, 22, 5874-5882.	4.5	26
32	Revealing the correlation between structure evolution and electrochemical performance of high-voltage lithium cobalt oxide. Journal of Energy Chemistry, 2021, 54, 786-794.	7.1	36
33	Counterâ€Intuitive Structural Instability Aroused by Transition Metal Migration in Polyanionic Sodium Ion Host. Advanced Energy Materials, 2021, 11, 2003256.	10.2	35
34	Modifying an ultrathin insulating layer to suppress lithium dendrite formation within garnet solid electrolytes. Journal of Materials Chemistry A, 2021, 9, 3576-3583.	5.2	36
35	A Case Study of Stereoisomerism with [6]Cyclo[4]helicenylenes. Chemistry Letters, 2021, 50, 110-112.	0.7	4
36	Bulk boron doping and surface carbon coating enabling fast-charging and stable Si anodes: from thin film to thick Si electrodes. Journal of Materials Chemistry A, 2021, 9, 3628-3636.	5.2	23

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37	Quantifying the reaction mechanisms of a high-capacity CuP₂/C composite anode for potassium ion batteries. Journal of Materials Chemistry A, 2021, 9, 6274-6283.	5.2	19
38	Modification and regulation of electrode/electrolyte interface for high specific energy and long life lithium ion batteries. Chinese Science Bulletin, 2021, 66, 1170-1186.	0.4	3
39	All solid thick oxide cathodes based on low temperature sintering for high energy solid batteries. Energy and Environmental Science, 2021, 14, 5044-5056.	15.6	41
40	Pillar-beam structures prevent layered cathode materials from destructive phase transitions. Nature Communications, 2021, 12, 13.	5.8	85
41	Electrochemoâ€Mechanical Effects on Structural Integrity of Niâ€Rich Cathodes with Different Microstructures in All Solidâ€State Batteries. Advanced Energy Materials, 2021, 11, 2003583.	10.2	112
42	Reversible potassium storage in ultrafine CF : A superior cathode material for potassium batteries and its mechanism. Journal of Energy Chemistry, 2021, 53, 347-353.	7.1	16
43	Research progress of fluorine-containing electrolyte additives for lithium ion batteries. Journal of Power Sources Advances, 2021, 7, 100043.	2.6	55
44	Kinetics of lithium dendrite growth in garnet-type solid electrolyte. Journal of Power Sources, 2021, 487, 229421.	4.0	23
45	Enhanced Cycle Life and Rate Capability of Single-Crystal, Ni-Rich LiNi_{0.9}Co_{0.05}Mn_{0.05}O₂ Enabled by 1,2,4-1H-Triazole Additive. ACS Applied Materials & Interfaces, 2021, 13, 16427-16436.	4.0	53
46	Insight into Ion Diffusion Dynamics/Mechanisms and Electronic Structure of Highly Conductive Sodium-Rich Na_{3+x}La_xZr_{2â€“x}Si₂PO₁₂ (0 â‰¤ x â‰¤ 0.5) Solid-State Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 13132-13138.	4.0	27
47	Fluorinated graphite nanosheets for ultrahigh-capacity lithium primary batteries. Rare Metals, 2021, 40, 1708-1718.	3.6	35
48	Interfacial compatibility issues in rechargeable solid-state lithium metal batteries: a review. Science China Chemistry, 2021, 64, 879-898.	4.2	28
49	Solidâ€State NMR and MRI Spectroscopy for Li/Na Batteries: Materials, Interface, and In Situ Characterization. Advanced Materials, 2021, 33, e2005878.	11.1	35
50	Stabilizing Ni-Rich LiNi_{0.83}Co_{0.12}Mn_{0.05}O₂ with Cyclopentyl Isocyanate as a Novel Electrolyte Additive. ACS Applied Materials & Interfaces, 2021, 13, 12069-12078.	4.0	43
51	Unravelling the Fast Alkaliâ€Ion Dynamics in Paramagnetic Battery Materials Combined with NMR and Deepâ€Potential Molecular Dynamics Simulation. Angewandte Chemie - International Edition, 2021, 60, 12547-12553.	7.2	16
52	Initial Stages of Oxidation Reactions of Ethylene Carbonate and Fluoroethylene Carbonate on Li_xCoO₂ Surfaces: A DFT Study. Journal of the Electrochemical Society, 2021, 168, 050505.	1.3	11
53	Uniformity of Flat Li-Ion Batteries Studied by Diffraction and Imaging of X-rays and Neutrons. ACS Applied Energy Materials, 2021, 4, 3110-3117.	2.5	8
54	Unravelling the Fast Alkaliâ€Ion Dynamics in Paramagnetic Battery Materials Combined with NMR and Deepâ€Potential Molecular Dynamics Simulation. Angewandte Chemie, 2021, 133, 12655-12661.	1.6	0

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55	O3-Type NaCrO₂ as a Superior Cathode Material for Sodium/Potassium-Ion Batteries Ensured by High Structural Reversibility. ACS Applied Materials & Interfaces, 2021, 13, 22635-22645.	4.0	20
56	Origin of High Ionic Conductivity of Scâ€Doped Sodiumâ€Rich NASICON Solidâ€State Electrolytes. Advanced Functional Materials, 2021, 31, 2102129.	7.8	49
57	State of health (SoH) estimation and degradation modes analysis of pouch NMC532/graphite Li-ion battery. Journal of Power Sources, 2021, 498, 229884.	4.0	24
58	Reversible Multi-Electron Storage Enabled by Na5V(PO4)2F2 for Rechargeable Magnesium Batteries. Energy Storage Materials, 2021, 38, 462-472.	9.5	21
59	Lithium Host:Advanced architecture components for lithium metal anode. Energy Storage Materials, 2021, 38, 276-298.	9.5	89
60	Insights of the Electrochemical Reversibility of P2-Type Sodium Manganese Oxide Cathodes via Modulation of Transition Metal Vacancies. ACS Applied Materials & Interfaces, 2021, 13, 38305-38314.	4.0	13
61	Engineering Na+-layer spacings to stabilize Mn-based layered cathodes for sodium-ion batteries. Nature Communications, 2021, 12, 4903.	5.8	109
62	Constructing a High-Energy and Durable Single-Crystal NCM811 Cathode for All-Solid-State Batteries by a Surface Engineering Strategy. ACS Applied Materials & Interfaces, 2021, 13, 41669-41679.	4.0	35
63	Interfacial Enhancement of Silicon-Based Anode by a Lactam-Type Electrolyte Additive. ACS Applied Energy Materials, 2021, 4, 10323-10332.	2.5	14
64	Understanding the effect of Nb substitution on Li-Mn-rich layered oxides. Electrochimica Acta, 2021, 390, 138801.	2.6	5
65	Enhanced Interfacial Stability of a LiNi_{0.9}Co_{0.05}Mn_{0.05}O₂ Cathode by a Diboron Additive. ACS Applied Energy Materials, 2021, 4, 11051-11061.	2.5	18
66	In situ inorganic conductive network formation in high-voltage single-crystal Ni-rich cathodes. Nature Communications, 2021, 12, 5320.	5.8	197
67	Fluorinated cyclic siloxane additives for high energy density Li-ion batteries with high nickel cathodes and siliconâ€“carbon anodes. Journal of Power Sources, 2021, 511, 230437.	4.0	18
68	Tailoring the redox-active transition metal content to enhance cycling stability in cation-disordered rock-salt oxides. Energy Storage Materials, 2021, 43, 275-283.	9.5	11
69	Research Progresses of Sodium Cobalt Oxide as Cathode in Sodium Ion Batteries. Acta Chimica Sinica, 2021, 79, 1232.	0.5	3
70	Stabilizing the LiCoO₂ Interface at High Voltage with an Electrolyte Additive 2,4,6-Tris(4-fluorophenyl)boroxin. ACS Sustainable Chemistry and Engineering, 2021, 9, 15042-15052.	3.2	22
71	Mechanistic Probing of Encapsulation and Confined Growth of Lithium Crystals in Carbonaceous Nanotubes. Advanced Materials, 2021, 33, e2105228.	11.1	14
72	Electrolyte Additive cis-1,2,3,6-Tetrahydrophthalic Anhydride Enhanced the Cycle Life of Nickel-Rich LiNi_{0.9}Co_{0.05}Mn_{0.05}O₂. ACS Applied Energy Materials, 2021, 4, 12275-12284.	2.5	15

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73	Enhancing the Reduction Kinetics of Liï£¿SF₆ Batteries by Dispersed Cobalt Phthalocyanines on Porous Carbon. Small, 2021, 17, e2103778.	5.2	3
74	Compatibility of Various Electrolytes with Cation Disordered Rocksalt Cathodes in Lithium Ion Batteries. ACS Applied Energy Materials, 2021, 4, 10909-10920.	2.5	9
75	Linking the Defects to the Formation and Growth of Li Dendrite in Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2021, 11, 2102148.	10.2	61
76	A novel trimethylsilyl 2-(fluorosulfonyl)difluoroacetate additive for stabilizing the Ni-rich LiNi0.9Co0.05Mn0.05O2/electrolyte interface. Journal of Power Sources, 2021, 515, 230618.	4.0	30
77	Formulating a New Electrolyte: Synergy between Low-Polar and Non-polar Solvents in Tailoring the Solid Electrolyte Interface for the Silicon Anode. ACS Applied Materials & Interfaces, 2021, 13, 55700-55711.	4.0	7
78	Quantitatively analyzing the failure processes of rechargeable Li metal batteries. Science Advances, 2021, 7, eabj3423.	4.7	84
79	Boosting the Energy Density of Li||CF_x Primary Batteries Using a 1,3-Dimethyl-2-imidazolidinone-Based Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 57470-57480.	4.0	21
80	Exploring high-voltage fluorinated carbonate electrolytes for LiNi0.5Mn1.5O4 cathode in Li-ion batteries. Journal of Energy Chemistry, 2020, 42, 62-70.	7.1	51
81	Facile one-pot synthesis of low cost MnO2 nanosheet/Super P Li composites with high oxygen reduction reaction activity for Zn-air batteries. Journal of Power Sources, 2020, 448, 227385.	4.0	37
82	Unraveling (electro)-chemical stability and interfacial reactions of Li10SnP2S12 in all-solid-state Li batteries. Nano Energy, 2020, 67, 104252.	8.2	59
83	New Dimorphs of Na₅V(PO₄)₂F₂ as an Ultrastable Cathode Material for Sodium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 1181-1189.	2.5	16
84	Tailoring the interfaces of silicon/carbon nanotube for high rate lithium-ion battery anodes. Journal of Power Sources, 2020, 450, 227593.	4.0	45
85	Flexible free-standing sulfurized polyacrylonitrile electrode for stable Li/Na storage. Electrochimica Acta, 2020, 333, 135493.	2.6	29
86	Good practice guide for papers on supercapacitors and related hybrid capacitors for the Journal of Power Sources. Journal of Power Sources, 2020, 450, 227636.	4.0	41
87	Highly dispersed Ni₂P nanoparticles on N,P-codoped carbon for efficient cross-dehydrogenative coupling to access alkynyl thioethers. Green Chemistry, 2020, 22, 651-656.	4.6	16
88	Crack-free single-crystalline Ni-rich layered NCM cathode enable superior cycling performance of lithium-ion batteries. Nano Energy, 2020, 70, 104450.	8.2	397
89	Additives synergy for stable interface formation on rechargeable lithium metal anodes. Energy Storage Materials, 2020, 29, 377-385.	9.5	66
90	Highly-stable P2â€“Na0.67MnO2 electrode enabled by lattice tailoring and surface engineering. Energy Storage Materials, 2020, 26, 503-512.	9.5	101

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91	SnSe2 nanocrystals coupled with hierarchical porous carbon microspheres for long-life sodium ion battery anode. Science China Materials, 2020, 63, 483-491.	3.5	30
92	Insights of the anionic redox in P2â€“Na0.67Ni0.33Mn0.67O2. Nano Energy, 2020, 78, 105285.	8.2	49
93	Li2S@NC composite enable high active material loading and high Li2S utilization for all-solid-state lithium sulfur batteries. Journal of Power Sources, 2020, 479, 228792.	4.0	21
94	Fieldâ€Induced Ferroelectric Hf_{1â€}_xZr_xO₂ Thin Films for Highâ€k Dynamic Random Access Memory. Advanced Electronic Materials, 2020, 6, 2000631.	2.6	19
95	The stability of P2-layered sodium transition metal oxides in ambient atmospheres. Nature Communications, 2020, 11, 3544.	5.8	204
96	Fluorination effect for stabilizing cationic and anionic redox activities in cation-disordered cathode materials. Energy Storage Materials, 2020, 32, 234-243.	9.5	42
97	Rh-catalyzed highly regioselective hydroformylation to linear aldehydes by employing porous organic polymer as a ligand. RSC Advances, 2020, 10, 29263-29267.	1.7	16
98	Mn⁴⁺-Substituted Li-Rich Li_{1.2}Mn_{0.4}³⁺Mn_x⁴⁺Ti_{0.4â€“x}O<sub>2</s Materials with High Energy Density. ACS Applied Materials & Interfaces, 2020, 12, 40347-40354.	8.0	15
99	Suppression of voltage-decay in Li₂MnO₃ cathode via reconstruction of layered-spinel coexisting phases. Journal of Materials Chemistry A, 2020, 8, 18687-18697.	5.2	10
100	Visualizing the growth process of sodium microstructures in sodium batteries by in-situ 23Na MRI and NMR spectroscopy. Nature Nanotechnology, 2020, 15, 883-890.	15.6	95
101	Advances in soft X-ray RIXS for studying redox reaction states in batteries. Dalton Transactions, 2020, 49, 13519-13527.	1.6	19
102	Enabling Stable Highâ€Voltage LiCoO₂ Operation by Using Synergetic Interfacial Modification Strategy. Advanced Functional Materials, 2020, 30, 2004664.	7.8	119
103	Interfaces in Garnetâ€Based Allâ€Solidâ€State Lithium Batteries. Advanced Energy Materials, 2020, 10, 2001318.	10.2	85
104	Li-rich cathodes for rechargeable Li-based batteries: reaction mechanisms and advanced characterization techniques. Energy and Environmental Science, 2020, 13, 4450-4497.	15.6	219
105	On the Interface Design of Si and Multilayer Graphene for a High-Performance Li-Ion Battery Anode. ACS Applied Materials & Interfaces, 2020, 12, 44840-44849.	4.0	36
106	A facile synthesis of non-aqueous LiPO2F2 solution as the electrolyte additive for high performance lithium ion batteries. Chinese Chemical Letters, 2020, 31, 3209-3212.	4.8	19
107	Chemomechanical Failure Mechanism Study in NASICON-Type Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ Solid-State Lithium Batteries. Chemistry of Materials, 2020, 32, 4998-5008.	3.2	104
108	Synthesis and stereoisomerism of [n]cyclo-2,9-phenanthrenylene congeners possessing alternating E/Z- and R/S-biaryl linkages. Organic and Biomolecular Chemistry, 2020, 18, 4949-4955.	1.5	3

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109	Al and Fe-containing Mn-based layered cathode with controlled vacancies for high-rate sodium ion batteries. Nano Energy, 2020, 76, 104997.	8.2	54
110	Optimized Al Doping Improves Both Interphase Stability and Bulk Structural Integrity of Ni-Rich NMC Cathode Materials. ACS Applied Energy Materials, 2020, 3, 3369-3377.	2.5	66
111	Highly-efficient conversion of SF6 via an eight-electron transfer process in lithium batteries. Nano Energy, 2020, 72, 104679.	8.2	10
112	Restraining the polarization increase of Ni-rich and low-Co cathodes upon cycling by Al-doping. Journal of Materials Chemistry A, 2020, 8, 6893-6901.	5.2	100
113	Soft-Mode Parameter as an Indicator for the Activation Energy Spectra in Metallic Glass. Journal of Physical Chemistry Letters, 2020, 11, 2781-2787.	2.1	8
114	Revealing the correlation between structural evolution and Li⁺diffusion kinetics of nickel-rich cathode materials in Li-ion batteries. Journal of Materials Chemistry A, 2020, 8, 8540-8547.	5.2	132
115	Anionic Redox Processes in Maricite- and Triphylite-NaFePO₄ of Sodium-Ion Batteries. ACS Omega, 2020, 5, 5192-5201.	1.6	16
116	Recognition of V3+/V4+/V5+ Multielectron Reactions in Na3V(PO4)2: A Potential High Energy Density Cathode for Sodium-Ion Batteries. Molecules, 2020, 25, 1000.	1.7	7
117	Construction of a Stable LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ (NCM811) Cathode Interface by a Multifunctional Organosilicon Electrolyte Additive. ACS Applied Energy Materials, 2020, 3, 2837-2845.	2.5	80
118	Identifying the anionic redox activity in cation-disordered Li_{1.25}Nb_{0.25}Fe_{0.50}O₂/C oxide cathodes for Li-ion batteries. Journal of Materials Chemistry A, 2020, 8, 5115-5127.	5.2	32
119	Advanced characterization techniques for solid state lithium battery research. Materials Today, 2020, 36, 139-157.	8.3	86
120	Tuning Oxygen Redox Reaction through the Inductive Effect with Proton Insertion in Li-Rich Oxides. ACS Applied Materials & Interfaces, 2020, 12, 7277-7284.	4.0	33
121	Good practice guide for papers on batteries for the Journal of Power Sources. Journal of Power Sources, 2020, 452, 227824.	4.0	34
122	Recent advances and historical developments of high voltage lithium cobalt oxide materials for rechargeable Li-ion batteries. Journal of Power Sources, 2020, 460, 228062.	4.0	150
123	Ab initio calculations on the electronic structures and electrochemical properties of LiVO2 and NaVO2. Journal of Solid State Chemistry, 2020, 288, 121383.	1.4	3
124	Low temperature growth of graphitic carbon on porous silicon for high-capacity lithium energy storage. Journal of Power Sources, 2020, 463, 228245.	4.0	13
125	Electrochemical investigation of multi-electron reactions in NaVOPO4 cathode for sodium-ion batteries. Electrochimica Acta, 2020, 351, 136454.	2.6	17
126	High-Efficiency Lithium Metal Anode Enabled by a Concentrated/Fluorinated Ester Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 27794-27802.	4.0	31

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127	Synthesis of Single Crystal LiNi_{0.92}Co_{0.06}Mn_{0.01}Al_{0.01}O₂ Cathode Materials with Superior Electrochemical Performance for Lithium Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 120514.	1.3	21
128	Insights into the lithiation mechanism of CF_x by a joint high-resolution ¹⁹F NMR, in situ TEM and ⁷Li NMR approach. Journal of Materials Chemistry A, 2019, 7, 19793-19799.	5.2	33
129	Scaling the Equivalent Oxide Thickness by Employing a TiO₂ Thin Film on a ZrO₂â€“Al₂O₃â€Based Dielectric for Further Scaling of Dynamic Random Access Memory. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900282.	1.2	9
130	Exploring the high-voltage Mg²⁺/Na⁺ co-intercalation reaction of Na₃VCr(PO₄)₃ in Mg-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18081-18091.	5.2	29
131	Double-shelled microscale porous Si anodes for stable lithium-ion batteries. Journal of Power Sources, 2019, 436, 226794.	4.0	24
132	Elucidating and Mitigating the Degradation of Cationicâ€“Anionic Redox Processes in Li_{1.2}Mn_{0.4}Ti_{0.4}O₂ Cation-Disordered Cathode Materials. ACS Applied Materials & Interfaces, 2019, 11, 45674-45682.	4.0	31
133	P2â€Na_{0.67}Al_xMn_{1â^’x}O₂: Costâ€Effective, Stable and Highâ€Rate Sodium Electrodes by Suppressing Phase Transitions and Enhancing Sodium Cation Mobility. Angewandte Chemie - International Edition, 2019, 58, 18086-18095.	7.2	127
134	P2â€Na 0.67 Al x Mn 1â^’ x O 2 : Costâ€Effective, Stable and Highâ€Rate Sodium Electrodes by Suppressing Phase Transitions and Enhancing Sodium Cation Mobility. Angewandte Chemie, 2019, 131, 18254-18263.	1.6	9
135	Superior Stability Secured by a Four-Phase Cathode Electrolyte Interface on a Ni-Rich Cathode for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 36742-36750.	4.0	76
136	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. Nature Communications, 2019, 10, 4244.	5.8	219
137	MXene/Si@SiO_x@C Layer-by-Layer Superstructure with Autoadjustable Function for Superior Stable Lithium Storage. ACS Nano, 2019, 13, 2167-2175.	7.3	154
138	Reduction of the Hysteresis Voltage in Atomicâ€Layerâ€Deposited pâ€Type SnO Thinâ€Film Transistors by Adopting an Al₂O₃ Interfacial Layer. Advanced Electronic Materials, 2019, 5, 1900371.	2.6	23
139	Toward a durable solid electrolyte film on the electrodes for Li-ion batteries with high performance. Nano Energy, 2019, 63, 103815.	8.2	60
140	Novel Ordered Rocksalt-Type Lithium-Rich Li₂Ru_{1â€“x}Ni_xO_{3â^Î´} (0.3 â‰¤ x â‰¤ 0.5) Cathode Material with Tunable Anionic Redox Potential. ACS Applied Energy Materials, 2019, 2, 5933-5944.	2.5	22
141	Structure-Performance Relationship of Zn²⁺ Substitution in P2â€“Na_{0.66}Ni_{0.33}Mn_{0.67}O₂ with Different Ni/Mn Ratios for High-Energy Sodium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 4914-4924.	2.5	39
142	Poly(ethylene oxide)â€“Li₁₀SnP₂S₁₂ Composite Polymer Electrolyte Enables High-Performance All-Solid-State Lithium Sulfur Battery. ACS Applied Materials & Interfaces, 2019, 11, 22745-22753.	4.0	108
143	Impact of Structural Transformation on Electrochemical Performances of Li-Rich Cathode Materials: The Case of Li₂RuO₃. Journal of Physical Chemistry C, 2019, 123, 13491-13499.	1.5	29
144	In Situ Generated Li₂Sâ€“C Nanocomposite for High-Capacity and Long-Life All-Solid-State Lithium Sulfur Batteries with Ultrahigh Areal Mass Loading. Nano Letters, 2019, 19, 3280-3287.	4.5	98

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145	Stable Cycling Lithiumâ€“Sulfur Solid Batteries with Enhanced Li/Li₁₀GeP₂S₁₂ Solid Electrolyte Interface Stability. ACS Applied Materials & Interfaces, 2019, 11, 18436-18447.	4.0	82
146	Intrinsic Role of Cationic Substitution in Tuning Li/Ni Mixing in High-Ni Layered Oxides. Chemistry of Materials, 2019, 31, 2731-2740.	3.2	85
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