Chongmin Wang

List of Publications by Year
in descending order

438 papers	51,626 citations	872 117 h-index	1799 211 g-index
440 all docs	440 docs citations	440 times ranked	38828 citing authors

#	Article	IF	Citations
1	Atomistic observation on diffusion-mediated friction between single-asperity contacts. Nature Materials, 2022, 21, 173-180.	27.5	16
2	Nonsacrificial Additive for Tuning the Cathodeâ€“Electrolyte Interphase of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 4111-4118.	8.0	8
3	Locking oxygen in lattice: A quantifiable comparison of gas generation in polycrystalline and single crystal Ni-rich cathodes. Energy Storage Materials, 2022, 47, 195-202.	18.0	50
4	Fluorinationâ€Enhanced Surface Stability of Disordered Rocksalt Cathodes. Advanced Materials, 2022, 34, e2106256.	21.0	11
5	Assessing Longâ€Term Cycling Stability of Singleâ€Crystal Versus Polycrystalline Nickelâ€Rich NCM in Pouch Cells with 6 mAh cm^{âˆ’2} Electrodes. Small, 2022, 18, e2107357.	10.0	41
6	Stacking Faults Assist Lithium-Ion Conduction in a Halide-Based Superionic Conductor. Journal of the American Chemical Society, 2022, 144, 5795-5811.	13.7	50
7	Sulfone-based electrolytes for high energy density lithium-ion batteries. Journal of Power Sources, 2022, 527, 231171.	7.8	21
8	Facile Dual-Protection Layer and Advanced Electrolyte Enhancing Performances of Cobalt-free/Nickel-rich Cathodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 17405-17414.	8.0	8
9	Nanotwin assisted reversible formation of low angle grain boundary upon reciprocating shear load. Acta Materialia, 2022, 230, 117850.	7.9	8
10	Interfacial-engineering-enabled practical low-temperature sodium metal battery. Nature Nanotechnology, 2022, 17, 269-277.	31.5	69
11	<i>In-situ</i> observation of deformation twin associated sub-grain boundary formation in copper single crystal under bending. Materials Research Letters, 2022, 10, 488-495.	8.7	5
12	Amine-Wetting-Enabled Dendrite-Free Potassium Metal Anode. ACS Nano, 2022, 16, 7291-7300.	14.6	36
13	Early Failure of Lithiumâ€“Sulfur Batteries at Practical Conditions: Crosstalk between Sulfur Cathode and Lithium Anode. Advanced Science, 2022, 9, e2201640.	11.2	12
14	Dual Protective Mechanism of AlPO₄ Coating on High-Nickel Cathode Material for High Energy Density and Long Cycle Life Lithium-Ion Batteries. Journal of the Electrochemical Society, 2022, 169, 050523.	2.9	4
15	Improving LiNiO₂ cathode performance through particle design and optimization. Journal of Materials Chemistry A, 2022, 10, 12890-12899.	10.3	16
16	Exceptional Cycling Performance Enabled by Local Structural Rearrangements in Disordered Rocksalt Cathodes. Advanced Energy Materials, 2022, 12, .	19.5	15
17	Review of recent progress on in situ TEM shear deformation: a retrospective and perspective view. Journal of Materials Science, 2022, 57, 12177-12201.	3.7	6
18	Low-solvation electrolytes for high-voltage sodium-ion batteries. Nature Energy, 2022, 7, 718-725.	39.5	137

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19	A Lithium Feedstock Pathway: Coupled Electrochemical Extraction and Direct Battery Materials Manufacturing. ACS Energy Letters, 2022, 7, 2420-2427.	17.4	9
20	Mesoscale-architecture-based crack evolution dictating cycling stability of advanced lithium ion batteries. Nano Energy, 2021, 79, 105420.	16.0	36
21	Optimization of fluorinated orthoformate based electrolytes for practical high-voltage lithium metal batteries. Energy Storage Materials, 2021, 34, 76-84.	18.0	65
22	Rational Design of Electrolytes for Long-Term Cycling of Si Anodes over a Wide Temperature Range. ACS Energy Letters, 2021, 6, 387-394.	17.4	58
23	All solid thick oxide cathodes based on low temperature sintering for high energy solid batteries. Energy and Environmental Science, 2021, 14, 5044-5056.	30.8	41
24	Strategies towards enabling lithium metal in batteries: interphases and electrodes. Energy and Environmental Science, 2021, 14, 5289-5314.	30.8	156
25	Effects of fluorinated solvents on electrolyte solvation structures and electrode/electrolyte interphases for lithium metal batteries. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	131
26	Electrolyte Regulating toward Stabilization of Cobalt-Free Ultrahigh-Nickel Layered Oxide Cathode in Lithium-Ion Batteries. ACS Energy Letters, 2021, 6, 1324-1332.	17.4	53
27	Fluorinationâ€Enhanced Surface Stability of Cationâ€Disordered Rocksalt Cathodes for Liâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2101888.	14.9	28
28	Advanced Lowâ€Flammable Electrolytes for Stable Operation of Highâ€Voltage Lithiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 13109-13116.	2.0	16
29	Advanced Lowâ€Flammable Electrolytes for Stable Operation of Highâ€Voltage Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 12999-13006.	13.8	70
30	Stabilizing ultrahigh-nickel layered oxide cathodes for high-voltage lithium metal batteries. Materials Today, 2021, 44, 15-24.	14.2	53
31	Origin, Nature, and the Dynamic Behavior of Nanoscale Vacancy Clusters in Ni-Rich Layered Oxide Cathodes. ACS Applied Materials & Interfaces, 2021, 13, 18849-18855.	8.0	7
32	Electrochemical scissoring of disordered silicon-carbon composites for high-performance lithium storage. Energy Storage Materials, 2021, 36, 139-146.	18.0	20
33	Polymer-ceramic composite electrolytes for all-solid-state lithium batteries: Ionic conductivity and chemical interaction enhanced by oxygen vacancy in ceramic nanofibers. Journal of Power Sources, 2021, 495, 229796.	7.8	40
34	Optimization of Magnesiumâ€Doped Lithium Metal Anode for High Performance Lithium Metal Batteries through Modeling and Experiment. Angewandte Chemie, 2021, 133, 16642-16649.	2.0	5
35	Balancing interfacial reactions to achieve long cycle life in high-energy lithium metal batteries. Nature Energy, 2021, 6, 723-732.	39.5	285
36	Optimization of Magnesiumâ€Doped Lithium Metal Anode for High Performance Lithium Metal Batteries through Modeling and Experiment. Angewandte Chemie - International Edition, 2021, 60, 16506-16513.	13.8	28

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37	A Polymer-in-Salt Electrolyte with Enhanced Oxidative Stability for Lithium Metal Polymer Batteries. ACS Applied Materials & Interfaces, 2021, 13, 31583-31593.	8.0	28
38	In-Situ Environmental TEM Study of Solid-Gas Interfacial Process in Energy Materials. Microscopy and Microanalysis, 2021, 27, 1970-1971.	0.4	0
39	In-situ TEM observation of bending induced sub-grain boundary formation in copper single crystal. Microscopy and Microanalysis, 2021, 27, 3414-3415.	0.4	0
40	Progressive growth of the solidâ€“electrolyte interphase towards the Si anode interior causes capacity fading. Nature Nanotechnology, 2021, 16, 1113-1120.	31.5	147
41	Formation of LiF Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. ACS Applied Materials & Interfaces, 2021, 13, 38221-38228.	8.0	13
42	The passivity of lithium electrodes in liquid electrolytes for secondary batteries. Nature Reviews Materials, 2021, 6, 1036-1052.	48.7	201
43	Interplay between Cation and Anion Redox in Ni-Based Disordered Rocksalt Cathodes. ACS Nano, 2021, 15, 13360-13369.	14.6	13
44	A Micrometerâ€Sized Silicon/Carbon Composite Anode Synthesized by Impregnation of Petroleum Pitch in Nanoporous Silicon. Advanced Materials, 2021, 33, e2103095.	21.0	99
45	Role of Fluorine in Chemomechanics of Cation-Disordered Rocksalt Cathodes. Chemistry of Materials, 2021, 33, 7028-7038.	6.7	8
46	Stable Solid Electrolyte Interphase Layer Formed by Electrochemical Pretreatment of Gel Polymer Coating on Li Metal Anode for Lithiumâ€“Oxygen Batteries. ACS Energy Letters, 2021, 6, 3321-3331.	17.4	17
47	Labile Fe(III) supersaturation controls nucleation and properties of product phases from Fe(II)-catalyzed ferrihydrite transformation. Geochimica Et Cosmochimica Acta, 2021, 309, 272-285.	3.9	24
48	Toward the Practical Use of Cobalt-Free Lithium-Ion Batteries by an Advanced Ether-Based Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 44339-44347.	8.0	24
49	Atomistic processes of surface-diffusion-induced abnormal softening in nanoscale metallic crystals. Nature Communications, 2021, 12, 5237.	12.8	27
50	Exposure History and its Effect Towards Stabilizing Li Exchange Across Disordered Rock Salt Interfaces. ChemElectroChem, 2021, 8, 3982-3991.	3.4	4
51	In-situ TEM observation of shear induced microstructure evolution in Cu-Nb alloy. Scripta Materialia, 2021, 205, 114214.	5.2	6
52	LT-LiMn_{0.5}Ni_{0.5}O₂: a unique co-free cathode for high energy Li-ion cells. Chemical Communications, 2021, 57, 11009-11012.	4.1	8
53	Recent Progress in Understanding Solid Electrolyte Interphase on Lithium Metal Anodes. Advanced Energy Materials, 2021, 11, 2003092.	19.5	271
54	Compact Sn/SnO2 microspheres with gradient composition for high volumetric lithium storage. Energy Storage Materials, 2020, 25, 376-381.	18.0	27

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55	Labile Fe(III) from sorbed Fe(II) oxidation is the key intermediate in Fe(II)-catalyzed ferrihydrite transformation. Geochimica Et Cosmochimica Acta, 2020, 272, 105-120.	3.9	72
56	Atomic to Nanoscale Origin of Vinylene Carbonate Enhanced Cycling Stability of Lithium Metal Anode Revealed by Cryo-Transmission Electron Microscopy. Nano Letters, 2020, 20, 418-425.	9.1	102
57	Realâ€Time Atomicâ€Scale Visualization of Reversible Copper Surface Activation during the CO Oxidation Reaction. Angewandte Chemie - International Edition, 2020, 59, 2505-2509.	13.8	24
58	Realâ€Time Atomicâ€Scale Visualization of Reversible Copper Surface Activation during the CO Oxidation Reaction. Angewandte Chemie, 2020, 132, 2526-2530.	2.0	11
59	Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. ACS Energy Letters, 2020, 5, 200-206.	17.4	44
60	Atomic-Scale Dynamic Interaction of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math> Molecules with Cu Surface. Physical Review Letters, 2020, 125, 156101.	7.8	11
61	Unravelling high-temperature stability of lithium-ion battery with lithium-rich oxide cathode in localized high-concentration electrolyte. Journal of Power Sources Advances, 2020, 5, 100024.	5.1	23
62	New synthesis strategies to improve Co-Free LiNi0.5Mn0.5O2 cathodes: Early transition metal d0 dopants and manganese pyrophosphate coating. Journal of Power Sources, 2020, 479, 228591.	7.8	22
63	Controlling Ion Coordination Structure and Diffusion Kinetics for Optimized Electrode-Electrolyte Interphases and High-Performance Si Anodes. Chemistry of Materials, 2020, 32, 8956-8964.	6.7	24
64	Electrolyte-Phobic Surface for the Next-Generation Nanostructured Battery Electrodes. Nano Letters, 2020, 20, 7455-7462.	9.1	25
65	Understanding Reactivities of Ni-Rich Li[Ni_{<i>x</i>}Mn_{<i>y</i>}Co_{1â€“<i>x</i>â€“<i>y</i>}]O₂ Single-Crystal Cathode Materials. ACS Applied Energy Materials, 2020, 3, 12238-12245.	5.1	24
66	Enabling Ether-Based Electrolytes for Long Cycle Life of Lithium-Ion Batteries at High Charge Voltage. ACS Applied Materials & Interfaces, 2020, 12, 54893-54903.	8.0	35
67	Direct Contacting with Liquid Electrolyte Facilitates the Surface Phase Transition in Ni-rich Layered Cathode. Microscopy and Microanalysis, 2020, 26, 3018-3020.	0.4	2
68	Ultra-Microtome for the Preparation of TEM Specimens from Battery Cathodes. Microscopy and Microanalysis, 2020, 26, 867-877.	0.4	9
69	Highly Reversible Sodium Ion Batteries Enabled by Stable Electrolyte-Electrode Interphases. ACS Energy Letters, 2020, 5, 3212-3220.	17.4	97
70	<i>In situ</i> electrochemical scanning/transmission electron microscopy of electrodeâ€“electrolyte interfaces. MRS Bulletin, 2020, 45, 738-745.	3.5	19
71	In-situ TEM Coupled with AFM Cantilever for Direct Observation of Li Dendrite Nucleation and Growth Under Stress. Microscopy and Microanalysis, 2020, 26, 3038-3039.	0.4	0
72	Reversible planar gliding and microcracking in a single-crystalline Ni-rich cathode. Science, 2020, 370, 1313-1317.	12.6	472

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73	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. Microscopy and Microanalysis, 2020, 26, 2542-2544.	0.4	0
74	Role of inner solvation sheath within saltâ€"solvent complexes in tailoring electrode/electrolyte interphases for lithium metal batteries. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28603-28613.	7.1	191
75	Designing Advanced In Situ Electrode/Electrolyte Interphases for Wide Temperature Operation of 4.5 V Li||LiCoO₂ Batteries. Advanced Materials, 2020, 32, e2004898.	21.0	123
76	Redox Behaviors in a Li-Excess Cation-Disordered Mnâ€"Nbâ€"Oâ€"F Rocksalt Cathode. Chemistry of Materials, 2020, 32, 4490-4498.	6.7	37
77	Direct observation of dual-step twinning nucleation in hexagonal close-packed crystals. Nature Communications, 2020, 11, 2483.	12.8	59
78	Unstable twin in body-centered cubic tungsten nanocrystals. Nature Communications, 2020, 11, 2497.	12.8	40
79	Sweeping potential regulated structural and chemical evolution of solid-electrolyte interphase on Cu and Li as revealed by cryo-TEM. Nano Energy, 2020, 76, 105040.	16.0	16
80	Vacancy ordering during selective oxidation of Î²-NiAl. Materialia, 2020, 12, 100783.	2.7	6
81	Hierarchical porous silicon structures with extraordinary mechanical strength as high-performance lithium-ion battery anodes. Nature Communications, 2020, 11, 1474.	12.8	298
82	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.	5.1	66
83	The Role of Secondary Particle Structures in Surface Phase Transitions of Ni-Rich Cathodes. Chemistry of Materials, 2020, 32, 2884-2892.	6.7	60
84	Tin-graphene tubes as anodes for lithium-ion batteries with high volumetric and gravimetric energy densities. Nature Communications, 2020, 11, 1374.	12.8	127
85	Current Density Regulated Atomic to Nanoscale Process on Li Deposition and Solid Electrolyte Interphase Revealed by Cryogenic Transmission Electron Microscopy. ACS Nano, 2020, 14, 8766-8775.	14.6	54
86	Unlocking the passivation nature of the cathodeâ€"air interfacial reactions in lithium ion batteries. Nature Communications, 2020, 11, 3204.	12.8	55
87	Evolution of the rate-limiting step: From thin film to thick Ni-rich cathodes. Journal of Power Sources, 2020, 454, 227966.	7.8	35
88	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. Nano Letters, 2020, 20, 2756-2762.	9.1	24
89	Ligninâ€derived electrochemical energy materials and systems. Biofuels, Bioproducts and Biorefining, 2020, 14, 650-672.	3.7	73
90	Real-time mass spectrometric characterization of the solidâ€"electrolyte interphase of a lithium-ion battery. Nature Nanotechnology, 2020, 15, 224-230.	31.5	280

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91	Dynamic Atom Clusters on AuCu Nanoparticle Surface during CO Oxidation. Journal of the American Chemical Society, 2020, 142, 4022-4027.	13.7	36
92	Controlling Surface Phase Transition and Chemical Reactivity of O3-Layered Metal Oxide Cathodes for High-Performance Na-Ion Batteries. ACS Energy Letters, 2020, 5, 1718-1725.	17.4	64
93	Deciphering atomistic mechanisms of the gas-solid interfacial reaction during alloy oxidation. Science Advances, 2020, 6, eaay8491.	10.3	20
94	Advances in metalâ€"organic framework coatings: versatile synthesis and broad applications. Chemical Society Reviews, 2020, 49, 3142-3186.	38.1	327
95	Excellent Cycling Stability of Sodium Anode Enabled by a Stable Solid Electrolyte Interphase Formed in Etherâ€Based Electrolytes. Advanced Functional Materials, 2020, 30, 2001151.	14.9	60
96	Electrolyte design for LiF-rich solidâ€"electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	39.5	621
97	Advanced Electrolytes for Fastâ€Charging Highâ€Voltage Lithiumâ€Ion Batteries in Wideâ€Temperature Range. Advanced Energy Materials, 2020, 10, 2000368.	19.5	159
98	Electrocatalytic Hydrogen Evolution in Neutral pH Solutions: Dual-Phase Synergy. ACS Catalysis, 2019, 9, 8712-8718.	11.2	103
99	High temperature shockwave stabilized single atoms. Nature Nanotechnology, 2019, 14, 851-857.	31.5	278
100	Lattice doping regulated interfacial reactions in cathode for enhanced cycling stability. Nature Communications, 2019, 10, 3447.	12.8	116
101	Highâ€Performance Silicon Anodes Enabled By Nonflammable Localized Highâ€Concentration Electrolytes. Advanced Energy Materials, 2019, 9, 1900784.	19.5	175
102	Enabling High-Voltage Lithium-Metal Batteries under Practical Conditions. Joule, 2019, 3, 1662-1676.	24.0	598
103	Polymerâ€inâ€â€œQuasiâ€Ionic Liquidâ€•Electrolytes for Highâ€Voltage Lithium Metal Batteries. Advanced Energy Materials, 2019, 9, 1902108.	19.5	65
104	Origin of lithium whisker formation and growth under stress. Nature Nanotechnology, 2019, 14, 1042-1047.	31.5	211
105	In-situ S/TEM Probing of the Coupling among Electrochemical, Thermal, and Mechanical Effect in Rechargeable Batteries. Microscopy and Microanalysis, 2019, 25, 2164-2165.	0.4	0
106	A high-performance oxygen evolution catalyst in neutral-pH for sunlight-driven CO2 reduction. Nature Communications, 2019, 10, 4081.	12.8	57
107	Monolithic solidâ€"electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. Nature Energy, 2019, 4, 796-805.	39.5	621
108	Nonflammable Electrolytes for Lithium Ion Batteries Enabled by Ultraconformal Passivation Interphases. ACS Energy Letters, 2019, 4, 2529-2534.	17.4	112

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109	Atomic-Scale Mechanisms of Enhanced Electrochemical Properties of Mo-Doped Co-Free Layered Oxide Cathodes for Lithium-Ion Batteries. ACS Energy Letters, 2019, 4, 2540-2546.	17.4	40
110	Building advanced materials via particle aggregation and molecular self-assembly. Journal of Materials Research, 2019, 34, 2911-2913.	2.6	0
111	In Situ Transmission Electron Microscopy Studies of Electrochemical Reaction Mechanisms in Rechargeable Batteries. Electrochemical Energy Reviews, 2019, 2, 467-491.	25.5	30
112	Ni/Li Disordering in Layered Transition Metal Oxide: Electrochemical Impact, Origin, and Control. Accounts of Chemical Research, 2019, 52, 2201-2209.	15.6	315
113	Infinitesimal sulfur fusion yields quasi-metallic bulk silicon for stable and fast energy storage. Nature Communications, 2019, 10, 2351.	12.8	57
114	Atomic-scale combination of germanium-zinc nanofibers for structural and electrochemical evolution. Nature Communications, 2019, 10, 2364.	12.8	44
115	Interconnected Vertically Stacked 2D-MoS₂ for Ultrastable Cycling of Rechargeable Li-Ion Battery. ACS Applied Materials & Interfaces, 2019, 11, 20762-20769.	8.0	37
116	Constructing Robust Electrode/Electrolyte Interphases to Enable Wide Temperature Applications of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 21496-21505.	8.0	44
117	A multi-functional interface derived from thiol-modified mesoporous carbon in lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 13372-13381.	10.3	17
118	High-energy lithium metal pouch cells with limited anode swelling and long stable cycles. Nature Energy, 2019, 4, 551-559.	39.5	492
119	Injection of oxygen vacancies in the bulk lattice of layered cathodes. Nature Nanotechnology, 2019, 14, 602-608.	31.5	321
120	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. Nature Nanotechnology, 2019, 14, 594-601.	31.5	451
121	High-Concentration Ether Electrolytes for Stable High-Voltage Lithium Metal Batteries. ACS Energy Letters, 2019, 4, 896-902.	17.4	302
122	Superionic conduction and interfacial properties of the low temperature phase Li7P2S8Br0.5I0.5. Energy Storage Materials, 2019, 19, 80-87.	18.0	39
123	High-quality mesoporous graphene particles as high-energy and fast-charging anodes for lithium-ion batteries. Nature Communications, 2019, 10, 1474.	12.8	140
124	Highly Stable Oxygen Electrodes Enabled by Catalyst Redistribution through an In Situ Electrochemical Method. Advanced Energy Materials, 2019, 9, 1803598.	19.5	6
125	Critical Parameters for Evaluating Coin Cells and Pouch Cells of Rechargeable Li-Metal Batteries. Joule, 2019, 3, 1094-1105.	24.0	358
126	Minimized Volume Expansion in Hierarchical Porous Silicon upon Lithiation. ACS Applied Materials & Interfaces, 2019, 11, 13257-13263.	8.0	51

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127	Good Practices for Rechargeable Lithium Metal Batteries. Journal of the Electrochemical Society, 2019, 166, A4141-A4149.	2.9	42
128	Creation and Ordering of Oxygen Vacancies at WO_{3âˆ’Î´} and Perovskite Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 17480-17486.	8.0	29
129	Designing principle for Ni-rich cathode materials with high energy density for practical applications. Nano Energy, 2018, 49, 434-452.	16.0	400
130	Harnessing the concurrent reaction dynamics in active Si and Ge to achieve high performance lithium-ion batteries. Energy and Environmental Science, 2018, 11, 669-681.	30.8	329
131	Investigation of Ionâ€"Solvent Interactions in Nonaqueous Electrolytes Using in Situ Liquid SIMS. Analytical Chemistry, 2018, 90, 3341-3348.	6.5	41
132	Enhanced Cyclability of Lithiumâ€"Oxygen Batteries with Electrodes Protected by Surface Films Induced via In Situ Electrochemical Process. Advanced Energy Materials, 2018, 8, 1702340.	19.5	38
133	Revealing the Reaction Mechanism of Naâ€"O₂ Batteries using Environmental Transmission Electron Microscopy. ACS Energy Letters, 2018, 3, 393-399.	17.4	30
134	Facet-Dependent Rock-Salt Reconstruction on the Surface of Layered Oxide Cathodes. Chemistry of Materials, 2018, 30, 692-699.	6.7	53
135	Simultaneous Stabilization of LiNi_{0.76}Mn_{0.14}Co_{0.10}O₂ Cathode and Lithium Metal Anode by Lithium Bis(oxalato)borate as Additive. ChemSusChem, 2018, 11, 2211-2220.	6.8	89
136	Effect of calcination temperature on the electrochemical properties of nickel-rich LiNi0.76Mn0.14Co0.10O2 cathodes for lithium-ion batteries. Nano Energy, 2018, 49, 538-548.	16.0	213
137	High Voltage Operation of Niâ€Rich NMC Cathodes Enabled by Stable Electrode/Electrolyte Interphases. Advanced Energy Materials, 2018, 8, 1800297.	19.5	298
138	Structural Degradations in the Bulk of Cathode Particles for Li-ion Batteries. Microscopy and Microanalysis, 2018, 24, 1504-1505.	0.4	0
139	Morphology-Controlled Discharge Profile and Reversible Cu Extrusion and Dissolution in Biomimetic CuS. ACS Applied Materials & Interfaces, 2018, 10, 41458-41464.	8.0	8
140	Surface Gradient Ti-Doped MnO₂ Nanowires for High-Rate and Long-Life Lithium Battery. ACS Applied Materials & Interfaces, 2018, 10, 44376-44384.	8.0	41
141	Solidâ€"Liquid Interfacial Reaction Trigged Propagation of Phase Transition from Surface into Bulk Lattice of Ni-Rich Layered Cathode. Chemistry of Materials, 2018, 30, 7016-7026.	6.7	80
142	Frontiers of solid-state batteries. MRS Bulletin, 2018, 43, 740-745.	3.5	35
143	In Situ Transmission Electron Microsopy of Oxide Shell-Induced Pore Formation in (De)lithiated Silicon Nanowires. ACS Energy Letters, 2018, 3, 2829-2834.	17.4	25
144	Revealing Cycling Rate-Dependent Structure Evolution in Ni-Rich Layered Cathode Materials. ACS Energy Letters, 2018, 3, 2433-2440.	17.4	92

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145	Accessing crystalâ€“crystal interaction forces with oriented nanocrystal atomic force microscopy probes. Nature Protocols, 2018, 13, 2005-2030.	12.0	12
146	High-Efficiency Lithium Metal Batteries with Fire-Retardant Electrolytes. Joule, 2018, 2, 1548-1558.	24.0	436
147	Synthesis and Electrochemical and Structural Investigations of Oxidatively Stable Li₂MoO₃ and <i>x</i>Li₂MoO₃Â·(1 â€“) Tj ETQq1 1 0.784314 rg BT /Overlock 10 T	6.7	23
148	Coupling of electrochemically triggered thermal and mechanical effects to aggravate failure in a layered cathode. Nature Communications, 2018, 9, 2437.	12.8	200
149	Tailoring grain boundary structures and chemistry of Ni-rich layered cathodes for enhanced cycle stability of lithium-ion batteries. Nature Energy, 2018, 3, 600-605.	39.5	613
150	Stress-Tolerant Nanoporous Germanium Nanofibers for Long Cycle Life Lithium Storage with High Structural Stability. ACS Nano, 2018, 12, 8169-8176.	14.6	42
151	Mechanical mismatch-driven rippling in carbon-coated silicon sheets for stress-resilient battery anodes. Nature Communications, 2018, 9, 2924.	12.8	94
152	Size-dependent dynamic structures of supported gold nanoparticles in CO oxidation reaction condition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7700-7705.	7.1	183
153	Atomic origins of water-vapour-promoted alloy oxidation. Nature Materials, 2018, 17, 514-518.	27.5	106
154	Observation of Solid-Liquid Interfacial Reactions Controlled Bulk Phase Transition of Ni-rich Layered Cathode. Microscopy and Microanalysis, 2018, 24, 1522-1523.	0.4	1
155	Revealing salt-expedited reduction mechanism for hollow silicon microsphere formation in bi-functional halide melts. Communications Chemistry, 2018, 1, .	4.5	31
156	Minimizing Polysulfide Shuttle Effect in Lithium-Ion Sulfur Batteries by Anode Surface Passivation. ACS Applied Materials & Interfaces, 2018, 10, 21965-21972.	8.0	18
157	Electrochemical and interfacial behavior of all solid state batteries using Li10SnP2S12 solid electrolyte. Journal of Power Sources, 2018, 396, 824-830.	7.8	54
158	B4C as a stable non-carbon-based oxygen electrode material for lithium-oxygen batteries. Nano Energy, 2017, 33, 195-204.	16.0	65
159	Intragranular cracking as a critical barrier for high-voltage usage of layer-structured cathode for lithium-ion batteries. Nature Communications, 2017, 8, 14101.	12.8	654
160	Oneâ€Pot Process for Hydrodeoxygenation of Lignin to Alkanes Using Ruâ€Based Bimetallic and Bifunctional Catalysts Supported on Zeolite Y. ChemSusChem, 2017, 10, 1846-1856.	6.8	127
161	Stabilization of Li Metal Anode in DMSOâ€Based Electrolytes via Optimization of Saltâ€“Solvent Coordination for Liâ€“O₂ Batteries. Advanced Energy Materials, 2017, 7, 1602605.	19.5	99
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