Xuejie Huang

List of Publications by Citations

179 papers	14,863 citations	61 h-index	120 g-index
197 ext. papers	17,241 ext. citations	10.3 avg, IF	6.63 L-index

#	Paper	IF	Citations
179	Research on Advanced Materials for Li-ion Batteries. *Advanced Materials*, **2009**, 21, 4593-4607	24	1459
178	Monodispersed hard carbon spherules with uniform nanopores. *Carbon*, **2001**, 39, 2211-2214	10.4	572
177	Hard Carbon Microtubes Made from Renewable Cotton as High-Performance Anode Material for Sodium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1600659	21.8	488
176	Prototype Sodium-Ion Batteries Using an Air-Stable and Co/Ni-Free O3-Layered Metal Oxide Cathode. *Advanced Materials*, **2015**, 27, 6928-33	24	398
175	Building aqueous K-ion batteries for energy storage. *Nature Energy*, **2019**, 4, 495-503	62.3	381
174	The crystal structural evolution of nano-Si anode caused by lithium insertion and extraction at room temperature. *Solid State Ionics*, **2000**, 135, 181-191	3.3	363
173	Recent advances of electrode materials for low-cost sodium-ion batteries towards practical application for grid energy storage. *Energy Storage Materials*, **2017**, 7, 130-151	19.4	351
172	Alumina-coated patterned amorphous silicon as the anode for a lithium-ion battery with high coulombic efficiency. *Advanced Materials*, **2011**, 23, 4938-41	24	348
171	Amorphous monodispersed hard carbon micro-spherules derived from biomass as a high performance negative electrode material for sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 71-77	13	347
170	Single Lithium-Ion Conducting Polymer Electrolytes Based on a Super-Delocalized Polyanion. *Angewandte Chemie - International Edition*, **2016**, 55, 2521-5	16.4	322
169	Kinetic analysis on LiFePO4 thin films by CV, GITT, and EIS. *Electrochimica Acta*, **2011**, 56, 4869-4875	6.7	318
168	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6 V. *Nature Energy*, **2019**, 4, 594-603	62.3	299
167	A comparative study of Fd-3m and P4332 LiNi0.5Mn1.5O4. *Solid State Ionics*, **2011**, 193, 32-38	3.3	271
166	Ti-substituted tunnel-type Na MnO oxide as a negative electrode for aqueous sodium-ion batteries. *Nature Communications*, **2015**, 6, 6401	17.4	265
165	A superior low-cost amorphous carbon anode made from pitch and lignin for sodium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 96-104	13	250
164	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. *ACS Energy Letters*, **2018**, 3, 1212-1218	20.1	236
163	Review Nano-Silicon/Carbon Composite Anode Materials Towards Practical Application for Next Generation Li-Ion Batteries. *Journal of the Electrochemical Society*, **2015**, 162, A2509-A2528	3.9	229

162	Enhancement of electronic conductivity of LiFePO4 by Cr doping and its identification by first-principles calculations. *Physical Review B*, **2003**, 68,	3.3	219
161	Single lithium-ion conducting polymer electrolytes based on poly[(4-styrenesulfonyl)(trifluoromethanesulfonyl)imide] anions. *Electrochimica Acta*, **2013**, 93, 254-263	6.7	215
160	Rational design of layered oxide materials for sodium-ion batteries. *Science*, **2020**, 370, 708-711	33.3	209
159	First-principles study of Li ion diffusion in LiFePO4. *Physical Review B*, **2004**, 69,	3.3	209
158	Lithium bis(fluorosulfonyl)imide/poly(ethylene oxide) polymer electrolyte. *Electrochimica Acta*, **2014**, 133, 529-538	6.7	206
157	Structural and electrochemical characterizations of surface-modified LiCoO2 cathode materials for Li-ion batteries. *Solid State Ionics*, **2002**, 148, 335-342	3.3	191
156	Novel spherical microporous carbon as anode material for Li-ion batteries. *Solid State Ionics*, **2002**, 152-153, 43-50	3.3	185
155	A waste biomass derived hard carbon as a high-performance anode material for sodium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 13046-13052	13	183
154	Studies on Capacity Loss and Capacity Fading of Nanosized SnSb Alloy Anode for Li-Ion Batteries. *Journal of the Electrochemical Society*, **2001**, 148, A915	3.9	181
153	Advanced sodium-ion batteries using superior low cost pyrolyzed anthracite anode: towards practical applications. *Energy Storage Materials*, **2016**, 5, 191-197	19.4	173
152	Electrochemical Evaluation and Structural Characterization of Commercial LiCoO[sub 2] Surfaces Modified with MgO for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2002**, 149, A466	3.9	167
151	Surface Structure Evolution of LiMn2O4 Cathode Material upon Charge/Discharge. *Chemistry of Materials*, **2014**, 26, 3535-3543	9.6	164
150	A Self-Forming Composite Electrolyte for Solid-State Sodium Battery with Ultralong Cycle Life. *Advanced Energy Materials*, **2017**, 7, 1601196	21.8	158
149	Nanosized SnSb Alloy Pinning on Hard Non-Graphitic Carbon Spherules as Anode Materials for a Li Ion Battery. *Chemistry of Materials*, **2002**, 14, 103-108	9.6	146
148	Nano-alloy anode for lithium ion batteries. *Solid State Ionics*, **2002**, 148, 247-258	3.3	139
147	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. *Science Advances*, **2015**, 1, e1500330	14.3	138
146	Studies of Stannic Oxide as an Anode Material for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **1998**, 145, 59-62	3.9	134
145	A Novel High Capacity Positive Electrode Material with Tunnel-Type Structure for Aqueous Sodium-Ion Batteries. *Advanced Energy Materials*, **2015**, 5, 1501005	21.8	127

144	Monodispersed hard carbon spherules as a catalyst support for the electrooxidation of methanol. *Carbon*, **2005**, 43, 11-16	10.4	120
143	Insight into the Atomic Structure of High-Voltage Spinel LiNi0.5Mn1.5O4 Cathode Material in the First Cycle. *Chemistry of Materials*, **2015**, 27, 292-303	9.6	116
142	Al2O3-coated LiCoO2 as cathode material for lithium ion batteries. *Solid State Ionics*, **2002**, 152-153, 341-346	3.3	116
141	A ceramic/polymer composite solid electrolyte for sodium batteries. *Journal of Materials Chemistry A*, **2016**, 4, 15823-15828	13	108
140	Shape evolution of patterned amorphous and polycrystalline silicon microarray thin film electrodes caused by lithium insertion and extraction. *Journal of Power Sources*, **2012**, 216, 131-138	8.9	104
139	Slope-Dominated Carbon Anode with High Specific Capacity and Superior Rate Capability for High Safety Na-Ion Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 4361-4365	16.4	100
138	Pre-Oxidation-Tuned Microstructures of Carbon Anodes Derived from Pitch for Enhancing Na Storage Performance. *Advanced Energy Materials*, **2018**, 8, 1800108	21.8	100
137	Novel Large-Scale Synthesis of a C/S Nanocomposite with Mixed Conducting Networks through a Spray Drying Approach for Li‖S Batteries. *Advanced Energy Materials*, **2015**, 5, 1500046	21.8	92
136	Electrochemical and In Situ Synchrotron XRD Studies on Al[sub 2]O[sub 3]-Coated LiCoO[sub 2] Cathode Material. *Journal of the Electrochemical Society*, **2004**, 151, A1344	3.9	92
135	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. *ACS Energy Letters*, **2020**, 5, 826-832	20.1	91
134	Ag-enhanced SEI formation on Si particles for lithium batteries. *Electrochemistry Communications*, **2003**, 5, 935-939	5.1	89
133	Nano-SnSb alloy deposited on MCMB as an anode material for lithium ion batteries. *Journal of Materials Chemistry*, **2001**, 11, 1502-1505		89
132	Correlated Migration Invokes Higher Na+-Ion Conductivity in NaSICON-Type Solid Electrolytes. *Advanced Energy Materials*, **2019**, 9, 1902373	21.8	86
131	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. *Angewandte Chemie - International Edition*, **2019**, 58, 4323-4327	16.4	81
130	Electrochemical behavior and microstructure variation of hard carbon nano-spherules as anode material for Li-ion batteries. *Solid State Ionics*, **2007**, 178, 265-271	3.3	80
129	Silicon-based nanosheets synthesized by a topochemical reaction for use as anodes for lithium ion batteries. *Nano Research*, **2015**, 8, 2654-2662	10	78
128	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 534-538	16.4	76
127	Cr[sub 2]O[sub 3]-Based Anode Materials for Li-Ion Batteries. *Electrochemical and Solid-State Letters*, **2005**, 8, A66		75

126	Performance Improvement of Surface-Modified LiCoO[sub 2] Cathode Materials: An Infrared Absorption and X-Ray Photoelectron Spectroscopic Investigation. *Journal of the Electrochemical Society*, **2003**, 150, A199	3.9	74
125	Dendrite-Free Lithium Deposition with Self-Aligned Columnar Structure in a Carbonate□ther Mixed Electrolyte. *ACS Energy Letters*, **2017**, 2, 1296-1302	20.1	72
124	Obtaining ultra-long copper nanowires via a hydrothermal process. *Science and Technology of Advanced Materials*, **2005**, 6, 761-765	7.1	72
123	Ionic liquid electrolyte of lithium bis(fluorosulfonyl)imide/N-methyl-N-propylpiperidinium bis(fluorosulfonyl)imide for Li/natural graphite cells: Effect of concentration of lithium salt on the physicochemical and electrochemical properties. *Electrochimica Acta*, **2014**, 149, 370-385	6.7	69
122	Novel Li[(CFSO)(n-CFSO)N]-Based Polymer Electrolytes for Solid-State Lithium Batteries with Superior Electrochemical Performance. *ACS Applied Materials & Interfaces*, **2016**, 8, 29705-29712	9.5	67
121	Unusual Spinel-to-Layered Transformation in LiMnO Cathode Explained by Electrochemical and Thermal Stability Investigation. *ACS Applied Materials & Interfaces*, **2017**, 9, 35463-35475	9.5	63
120	A class of liquid anode for rechargeable batteries with ultralong cycle life. *Nature Communications*, **2017**, 8, 14629	17.4	61
119	Impact of the functional group in the polyanion of single lithium-ion conducting polymer electrolytes on the stability of lithium metal electrodes. *RSC Advances*, **2016**, 6, 32454-32461	3.7	61
118	Improved Cycling Stability of Lithium-Metal Anode with Concentrated Electrolytes Based on Lithium (Fluorosulfonyl)(trifluoromethanesulfonyl)imide. *ChemElectroChem*, **2016**, 3, 531-536	4.3	60
117	Nano-Sn embedded in expanded graphite as anode for lithium ion batteries with improved low temperature electrochemical performance. *Electrochimica Acta*, **2016**, 187, 186-192	6.7	59
116	Understanding the effects of surface reconstruction on the electrochemical cycling performance of the spinel LiNi0.5Mn1.5O4 cathode material at elevated temperatures. *Journal of Materials Chemistry A*, **2017**, 5, 822-834	13	57
115	Origin of Solid Electrolyte Interphase on Nanosized LiCoO[sub 2]. *Electrochemical and Solid-State Letters*, **2006**, 9, A328		57
114	Synthesis and electrochemical performance of dendrite-like nanosized SnSb alloy prepared by co-precipitation in alcohol solution at low temperature. *Journal of Materials Chemistry*, **2000**, 10, 693-696		57
113	A spray drying approach for the synthesis of a Na2C6H2O4/CNT nanocomposite anode for sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 13193-13197	13	56
112	Improved Electrochemical Performances of Surface-Modified Spinel LiMn[sub 2]O[sub 4] for Long Cycle Life Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2003**, 150, A1294	3.9	56
111	A new Na[(FSO2)(n-C4F9SO2)N]-based polymer electrolyte for solid-state sodium batteries. *Journal of Materials Chemistry A*, **2017**, 5, 7738-7743	13	55
110	Spectroscopic studies on interactions and microstructures in propylene carbonate□iTFSI electrolytes. *Journal of Raman Spectroscopy*, **2001**, 32, 900-905	2.3	55
109	Investigation of the structural changes in Li1□FePO4 upon charging by synchrotron radiation techniques. *Journal of Materials Chemistry*, **2011**, 21, 11406		54

108	Advanced Characterization Techniques in Promoting Mechanism Understanding for Lithium‐Sulfur Batteries. *Advanced Functional Materials*, **2018**, 28, 1707543	15.6	53
107	Sodium Bis(fluorosulfonyl)imide/Poly(ethylene oxide) Polymer Electrolytes for Sodium-Ion Batteries. *ChemElectroChem*, **2016**, 3, 1741-1745	4.3	52
106	First-principles investigation of the structural, magnetic, and electronic properties of olivine LiFePO4. *Physical Review B*, **2005**, 71,	3.3	50
105	Novel Concentrated Li[(FSO)(n-CFSO)N]-Based Ether Electrolyte for Superior Stability of Metallic Lithium Anode. *ACS Applied Materials & Interfaces*, **2017**, 9, 4282-4289	9.5	49
104	Toothpaste-like Electrode: A Novel Approach to Optimize the Interface for Solid-State Sodium-Ion Batteries with Ultralong Cycle Life. *ACS Applied Materials & Interfaces*, **2016**, 8, 32631-32636	9.5	49
103	Na3.4Zr1.8Mg0.2Si2PO12 filled poly(ethylene oxide)/Na(CF3SO2)2N as flexible composite polymer electrolyte for solid-state sodium batteries. *Journal of Power Sources*, **2017**, 372, 270-275	8.9	48
102	The effect of cation doping on spinel LiMn2O4: a first-principles investigation. *Solid State Communications*, **2003**, 126, 531-534	1.6	47
101	Three-dimensional atomic-scale observation of structural evolution of cathode material in a working all-solid-state battery. *Nature Communications*, **2018**, 9, 3341	17.4	45
100	Competition Between the Plasticizer and Polymer on Associating with Li + Ions in Polyacrylonitrile-Based Electrolytes. *Journal of the Electrochemical Society*, **1997**, 144, 778-786	3.9	45
99	Electrochemical behavior and surface structural change of LiMn2O4 charged to 5.1 V. *Journal of Materials Chemistry A*, **2014**, 2, 14519-14527	13	44
98	First-principles studies of cation-doped spinel LiMn2O4 for lithium ion batteries. *Physical Review B*, **2003**, 67,	3.3	44
97	Characterization of Spontaneous Reactions of LiCoO[sub 2] with Electrolyte Solvent for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2004**, 151, A1641	3.9	43
96	Origin of the Ni/Mn ordering in high-voltage spinel LiNi0.5Mn1.5O4: The role of oxygen vacancies and cation doping. *Computational Materials Science*, **2016**, 115, 109-116	3.2	42
95	Influence of micropore structure on Li-storage capacity in hard carbon spherules. *Solid State Ionics*, **2005**, 176, 1151-1159	3.3	42
94	Dispersion effects of Raman lines in carbons. *Journal of Applied Physics*, **1998**, 84, 227-231	2.5	42
93	Sodium-Deficient O3-Na0.9[Ni0.4Mn xTi0.6]O2 Layered-Oxide Cathode Materials for Sodium-Ion Batteries. *Particle and Particle Systems Characterization*, **2016**, 33, 538-544	3.1	39
92	Understanding Surface Structural Stabilization of the High-Temperature and High-Voltage Cycling Performance of Al-Modified LiMnO Cathode Material. *ACS Applied Materials & Interfaces*, **2018**, 10, 550-559	9.5	38
91	Electrochemical performance of LiFePO4 thin films with different morphology and crystallinity. *Electrochimica Acta*, **2009**, 54, 6565-6569	6.7	36

90	Atomic insight into electrochemical inactivity of lithium chromate (LiCrO2): Irreversible migration of chromium into lithium layers in surface regions. *Journal of Power Sources*, **2015**, 273, 1218-1225	8.9	35
89	Structural, electronic and Li diffusion properties of LiFeSO4F. *Solid State Ionics*, **2010**, 181, 1209-1213	3.3	34
88	Interface Concentrated-Confinement Suppressing Cathode Dissolution in Water-in-Salt Electrolyte. *Advanced Energy Materials*, **2020**, 10, 2000665	21.8	34
87	Impact of Anionic Structure of Lithium Salt on the Cycling Stability of Lithium-Metal Anode in Li-S Batteries. *Journal of the Electrochemical Society*, **2016**, 163, A1776-A1783	3.9	31
86	Understanding the Formation of the Truncated Morphology of High-Voltage Spinel LiNi0.5Mn1.5O4 via Direct Atomic-Level Structural Observations. *Chemistry of Materials*, **2018**, 30, 2174-2182	9.6	30
85	Characterizations of crystalline structure and electrical properties of pyrolyzed polyfurfuryl alcohol. *Journal of Applied Physics*, **1997**, 82, 5705-5710	2.5	30
84	Iodine Vapor Transport-Triggered Preferential Growth of Chevrel MoS Nanosheets for Advanced Multivalent Batteries. *ACS Nano*, **2020**, 14, 1102-1110	16.7	30
83	Slope-Dominated Carbon Anode with High Specific Capacity and Superior Rate Capability for High Safety Na-Ion Batteries. *Angewandte Chemie*, **2019**, 131, 4405-4409	3.6	29
82	First-principle investigations of N doping in LiFePO4. *Solid State Communications*, **2008**, 147, 505-509	1.6	29
81	4.2 V poly(ethylene oxide)-based all-solid-state lithium batteries with superior cycle and safety performance. *Energy Storage Materials*, **2020**, 32, 191-198	19.4	28
80	Needle-like LiFePO4 thin films prepared by an off-axis pulsed laser deposition technique. *Thin Solid Films*, **2009**, 517, 2618-2622	2.2	27
79	Improving the High-Temperature Resilience of LiMn2O4Based Batteries: LiFNFSI an Effective Salt. *Journal of the Electrochemical Society*, **2012**, 159, A1158-A1164	3.9	27
78	TG-MS analysis on thermal decomposable components in the SEI film on Cr2O3 powder anode in Li-ion batteries. *Ionics*, **2009**, 15, 91-96	2.7	26
77	Novel 1.5 V anode materials, ATiOPO4 (A = NH4, K, Na), for room-temperature sodium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 7141-7147	13	26
76	Ab initio studies on the stability and electronic structure of LiCoO2 (003) surfaces. *Physical Review B*, **2005**, 71,	3.3	25
75	Epitaxial Induced Plating Current-Collector Lasting Lifespan of Anode-Free Lithium Metal Battery. *Advanced Energy Materials*, **2021**, 11, 2003709	21.8	25
74	Using Li2S to Compensate for the Loss of Active Lithium in Li-ion Batteries. *Electrochimica Acta*, **2017**, 255, 212-219	6.7	24
73	Realizing long-term cycling stability and superior rate performance of 4.5 V LiCoO2 by aluminum doped zinc oxide coating achieved by a simple wet-mixing method. *Journal of Power Sources*, **2020**, 470, 228423	8.9	23

72	Si-Cu Thin Film Electrode with Kirkendall Voids Structure for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2012**, 159, A2076-A2081	3.9	23
71	Investigation of Lithium Storage in Bamboo-like CNTs by HRTEM. *Journal of the Electrochemical Society*, **2003**, 150, A1281	3.9	23
70	Agglomeration and the surface passivating film of Ag nano-brush electrode in lithium batteries. *Solid State Ionics*, **2002**, 149, 185-192	3.3	22
69	Single Lithium-Ion Conducting Polymer Electrolytes Based on a Super-Delocalized Polyanion. *Angewandte Chemie*, **2016**, 128, 2567-2571	3.6	21
68	Molten salt of lithium bis(fluorosulfonyl)imide (LiFSI)-potassium bis(fluorosulfonyl)imide (KFSI) as electrolyte for the natural graphite/LiFePO4 lithium-ion cell. *Electrochimica Acta*, **2014**, 135, 217-223	6.7	21
67	Ag-deposited mesocarbon microbeads as an anode in a lithium ion battery with propylene carbonate electrolyte. *Surface and Coatings Technology*, **2004**, 186, 412-415	4.4	21
66	Surface-Enhanced Raman Scattering Study on Passivating Films of Ag Electrodes in Lithium Batteries *Journal of Physical Chemistry B*, **2000**, 104, 8477-8480	3.4	21
65	Li-Rich Li [Ni Co Mn]O for Anode-Free Lithium Metal Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 8289-8296	16.4	21
64	Ultralight Electrolyte for High-Energy Lithium-Sulfur Pouch Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 17547-17555	16.4	21
63	Enhanced electrochemical performance of Si Cu i thin films by surface covered with Cu 3 Si nanowires. *Journal of Power Sources*, **2015**, 281, 455-460	8.9	20
62	Impact of High Valence State Cation Ti/Ta Surface Doping on the Stabilization of Spinel LiNi0.5Mn1.5O4 Cathode Materials: A Systematic Density Functional Theory Investigation. *Advanced Materials Interfaces*, **2018**, 5, 1800077	4.6	19
61	Preparation and characterization of LiNi0.5Mn1.5O4 thin films taking advantage of correlations with powder samples behavior. *Journal of Power Sources*, **2013**, 232, 165-172	8.9	19
60	Lithium salt with a super-delocalized perfluorinated sulfonimide anion as conducting salt for lithium-ion cells: Physicochemical and electrochemical properties. *Journal of Power Sources*, **2015**, 296, 142-149	8.9	18
59	Amorphous anion-rich titanium polysulfides for aluminum-ion batteries. *Science Advances*, **2021**, 7,	14.3	18
58	Improving the electrochemical cycling performance of anode materials via facile in situ surface deposition of a solid electrolyte layer. *Journal of Power Sources*, **2019**, 424, 150-157	8.9	17
57	Triplite LiFeSO4F as cathode material for Li-ion batteries. *Journal of Power Sources*, **2013**, 244, 716-720	8.9	17
56	Factors that affect activation energy for Li diffusion in LiFePO4: A first-principles investigation. *Solid State Ionics*, **2010**, 181, 907-913	3.3	16
55	Understanding the Effect of Atomic-Scale Surface Migration of Bridging Ions in Binding LiPO to the Surface of Spinel Cathode Materials. *ACS Applied Materials & Interfaces*, **2019**, 11, 6937-6947	9.5	16

54	A new route to single crystalline vanadium dioxide nanoflakes via thermal reduction. *Journal of Materials Research*, **2007**, 22, 1921-1926	2.5	15
53	Application of Li2S to compensate for loss of active lithium in a SiC anode. *Journal of Materials Chemistry A*, **2018**, 6, 6206-6211	13	14
52	Lithium ion Conductor and Electronic Conductor Co-coating Modified Layered Cathode Material LiNi1/3Mn1/3Co1/3O2. *Electrochimica Acta*, **2017**, 247, 443-450	6.7	14
51	Aqueous interphase formed by CO brings electrolytes back to salt-in-water regime. *Nature Chemistry*, **2021**, 13, 1061-1069	17.6	14
50	Molten salt electrolyte based on alkali bis(fluorosulfonyl)imides for lithium batteries. *Electrochimica Acta*, **2013**, 105, 524-529	6.7	13
49	New ionic liquids based on a super-delocalized perfluorinated sulfonimide anion: physical and electrochemical properties. *Electrochimica Acta*, **2016**, 207, 66-75	6.7	13
48	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. *Angewandte Chemie*, **2019**, 131, 4367-4371	3.6	12
47	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. *Angewandte Chemie*, **2020**, 132, 542-546	3.6	12
46	Alumina coated nano silicon synthesized by aluminothermic reduction as anodes for lithium ion batteries. *Functional Materials Letters*, **2017**, 10, 1650073	1.2	11
45	Joint Cationic and Anionic Redox Chemistry for Advanced Mg Batteries. *Nano Letters*, **2020**, 20, 6852-6858	11.5	11
44	Dense All-Electrochem-Active Electrodes for All-Solid-State Lithium Batteries. *Advanced Materials*, **2021**, 33, e2008723	24	11
43	Ta2O5 Coating as an HF Barrier for Improving the Electrochemical Cycling Performance of High-Voltage Spinel LiNi0.5Mn1.5O4 at Elevated Temperatures. *ACS Applied Energy Materials*, **2018**,	6.1	11
42	Core–shell Si/Cu nanocomposites synthesized by self-limiting surface reaction as anodes for lithium ion batteries. *Functional Materials Letters*, **2017**, 10, 1750025	1.2	10
41	Electrochemical properties and interfacial reactions of LiNi0.5Mn1.5O4 nanorods. *Progress in Natural Science: Materials International*, **2012**, 22, 207-212	3.6	10
40	Improving the rate capability of a SiOx/graphite anode by adding LiNO3. *Progress in Natural Science: Materials International*, **2020**, 30, 321-327	3.6	10
39	Wearable Bipolar Rechargeable Aluminum Battery **2020**, 2, 808-813		9
38	Low-Density Fluorinated Silane Solvent Enhancing Deep Cycle Lithium-Sulfur Batteries' Lifetime. *Advanced Materials*, **2021**, 33, e2102034	24	9
37	Electrochemical impedance spectroscopic study of the rate-determining step of Li ion intercalation and deintercalation in LixNiO2 cathodes. *Ionics*, **1996**, 2, 259-265	2.7	8

36	Lithium fluorinated sulfonimide-based solid polymer electrolytes for Li || LiFePO4 cell: The impact of anionic structure. *Solid State Ionics*, **2020**, 358, 115519	3.3	8
35	Carbon-Coated Li[sub 1.2]Cr[sub 0.4]Ti[sub 0.4]O[sub 2] Cathode Material for Lithium-Ion Batteries. *Electrochemical and Solid-State Letters*, **2006**, 9, A324		7
34	Surface compatibility in a carbon–alloy composite and its influence on the electrochemical performance of Li/ion batteries. *Carbon*, **2004**, 42, 1965-1972	10.4	7
33	Highly salt-concentrated electrolyte comprising lithium bis(fluorosulfonyl)imide and 1,3-dioxolane-based ether solvents for 4-V-class rechargeable lithium metal cell. *Electrochimica Acta*, **2020**, 363, 137198	6.7	7
32	Simplifying and accelerating kinetics enabling fast-charge Al batteries. *Journal of Materials Chemistry A*, **2020**, 8, 23834-23843	13	6
31	Ultralight Electrolyte for High-Energy Lithium–Sulfur Pouch Cells. *Angewandte Chemie*, **2021**, 133, 17688-17696	3.6	6
30	A Better Choice to Achieve High Volumetric Energy Density: Anode-Free Lithium Metal Batteries.. *Advanced Materials*, **2022**, e2110323	24	6
29	Inhibition of lithium dendrite growth by forming rich polyethylene oxide-like species in a solid-electrolyte interphase in a polysulfide/carbonate electrolyte. *Journal of Materials Chemistry A*, **2018**, 6, 16818-16823	13	5
28	Activation of LiMnBO glass as cathode material for lithium-ion batteries. *Journal of Materials Chemistry*, **2000**, 10, 1465-1467		5
27	Raman Spectroscopic Investigation of the Dissociation of Dimethylsulphoxide Induced by Polyacrylonitrile. *Journal of Raman Spectroscopy*, **1996**, 27, 901-906	2.3	5
26	Excellent low-temperature electrochemical cycling of an anode consisting of Si nanoparticles seeded in Sn nanowires for lithium-ion batteries. *Electrochimica Acta*, **2021**, 396, 139224	6.7	5
25	Raising the intrinsic safety of layered oxide cathodes by surface re-lithiation with LLZTO garnet-type solid electrolytes.. *Advanced Materials*, **2022**, e2200655	24	5
24	Electrochemical and structural studies of the carbon-coated Li[CrxLi(1/3−x/3)Ti(2/3−2x/3)]O2 (x=0.3, 0.35, 0.4, 0.45). *Journal of Power Sources*, **2007**, 174, 867-871	8.9	4
23	Li[(FSO2)(n-C4F9SO2)N]: A Difunctional Salt for Ethylene-Carbonate- and Additive-Free Electrolyte for Li-Ion Cells. *ChemElectroChem*, **2021**, 8, 1807-1816	4.3	4
22	Amorphous Redox-Rich Polysulfides for Mg Cathodes. *Jacs Au*, **2021**, 1, 1266-1274		4
21	A designed core-shell structural composite of lithium terephthalate coating on Li4Ti5O12 as anode for lithium ion batteries. *Progress in Natural Science: Materials International*, **2016**, 26, 368-374	3.6	4
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