Linda F Nazar

List of Publications by Year
in descending order

278 papers	67,014 citations	767 119 h-index	642 256 g-index
307 all docs	307 docs citations	307 times ranked	30110 citing authors

#	Article	IF	Citations
1	A highly ordered nanostructured carbonâ€"sulphur cathode for lithiumâ€"sulphur batteries. Nature Materials, 2009, 8, 500-506.	27.5	5,250
2	Challenges Facing Lithium Batteries and Electrical Doubleâ€Layer Capacitors. Angewandte Chemie - International Edition, 2012, 51, 9994-10024.	13.8	2,407
3	A high-capacity and long-life aqueous rechargeable zinc battery using a metal oxide intercalation cathode. Nature Energy, 2016, 1, .	39.5	2,167
4	The Emerging Chemistry of Sodium Ion Batteries for Electrochemical Energy Storage. Angewandte Chemie - International Edition, 2015, 54, 3431-3448.	13.8	1,772
5	Advances in Liâ€"S batteries. Journal of Materials Chemistry, 2010, 20, 9821.	6.7	1,765
6	Advances in lithiumâ€"sulfur batteries based on multifunctional cathodes and electrolytes. Nature Energy, 2016, 1, .	39.5	1,710
7	A highly efficient polysulfide mediator for lithiumâ€"sulfur batteries. Nature Communications, 2015, 6, 5682.	12.8	1,691
8	Positive Electrode Materials for Li-Ion and Li-Batteries. Chemistry of Materials, 2010, 22, 691-714.	6.7	1,569
9	Approaching Theoretical Capacity of LiFePO[sub 4] at Room Temperature at High Rates. Electrochemical and Solid-State Letters, 2001, 4, A170.	2.2	1,336
10	Sodium and sodium-ion energy storage batteries. Current Opinion in Solid State and Materials Science, 2012, 16, 168-177.	11.5	1,251
11	New Approaches for High Energy Density Lithiumâ€"Sulfur Battery Cathodes. Accounts of Chemical Research, 2013, 46, 1135-1143.	15.6	1,166
12	Scientific Challenges for the Implementation of Zn-Ion Batteries. Joule, 2020, 4, 771-799.	24.0	1,164
13	Surface-enhanced redox chemistry of polysulphides on a metallic and polar host for lithium-sulphur batteries. Nature Communications, 2014, 5, 4759.	12.8	1,122
14	Advances in understanding mechanisms underpinning lithiumâ€"air batteries. Nature Energy, 2016, 1, .	39.5	1,050
15	Spherical Ordered Mesoporous Carbon Nanoparticles with High Porosity for Lithiumâ€"Sulfur Batteries. Angewandte Chemie - International Edition, 2012, 51, 3591-3595.	13.8	1,021
16	Nano-network electronic conduction in iron and nickel olivine phosphates. Nature Materials, 2004, 3, 147-152.	27.5	1,019
17	Sulfur Cathodes Based on Conductive MXene Nanosheets for Highâ€Performance Lithiumâ€"Sulfur Batteries. Angewandte Chemie - International Edition, 2015, 54, 3907-3911.	13.8	1,006
18	New horizons for inorganic solid state ion conductors. Energy and Environmental Science, 2018, 11, 1945-1976.	30.8	894

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19	A multifunctional 3.5â€‰V iron-based phosphate cathode for rechargeableÂbatteries. Nature Materials, 2007, 6, 749-753.	27.5	870
20	A facile surface chemistry route to a stabilized lithium metal anode. Nature Energy, 2017, 2, .	39.5	864
21	Stabilizing lithiumâ€"sulphur cathodes using polysulphide reservoirs. Nature Communications, 2011, 2, 325.	12.8	803
22	A Nitrogen and Sulfur Dualâ€Doped Carbon Derived from Polyrhodanine@Cellulose for Advanced Lithiumâ€"Sulfur Batteries. Advanced Materials, 2015, 27, 6021-6028.	21.0	703
23	Screening for Superoxide Reactivity in Li-O₂ Batteries: Effect on Li₂O₂/LiOH Crystallization. Journal of the American Chemical Society, 2012, 134, 2902-2905.	13.7	669
24	Tuning Transition Metal Oxideâ€"Sulfur Interactions for Long Life Lithium Sulfur Batteries: The â€œGoldilocksâ€•Principle. Advanced Energy Materials, 2016, 6, 1501636.	19.5	623
25	Review on electrodeâ€"electrolyte solution interactions, related to cathode materials for Li-ion batteries. Journal of Power Sources, 2007, 165, 491-499.	7.8	619
26	Interwoven MXene Nanosheet/Carbonâ€Nanotube Composites as Liâ€"S Cathode Hosts. Advanced Materials, 2017, 29, 1603040.	21.0	606
27	Aqueous <i>vs.</i> nonaqueous Zn-ion batteries: consequences of the desolvation penalty at the interface. Energy and Environmental Science, 2018, 11, 881-892.	30.8	604
28	Lithiumâ€"Oxygen Batteries and Related Systems: Potential, Status, and Future. Chemical Reviews, 2020, 120, 6626-6683.	47.7	593
29	Current density dependence of peroxide formation in the Liâ€"O2 battery and its effect on charge. Energy and Environmental Science, 2013, 6, 1772.	30.8	586
30	Nanostructured Composites: A High Capacity, Fast Rate Li3V2(PO4)3/Carbon Cathode for Rechargeable Lithium Batteries. Advanced Materials, 2002, 14, 1525-1528.	21.0	561
31	Electrochemical Property:Â Structure Relationships in Monoclinic Li3-yV2(PO4)3. Journal of the American Chemical Society, 2003, 125, 10402-10411.	13.7	509
32	Synthesis of a metallic mesoporous pyrochlore as a catalyst for lithiumâ€"O2 batteries. Nature Chemistry, 2012, 4, 1004-1010.	13.6	507
33	Sulfur Speciation in Liâ€"S Batteries Determined by Operando X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2013, 4, 3227-3232.	4.6	462
34	Understanding the Nature of Absorption/Adsorption in Nanoporous Polysulfide Sorbents for the Liâ€"S Battery. Journal of Physical Chemistry C, 2012, 116, 19653-19658.	3.1	454
35	Nonâ€Aqueous and Hybrid Liâ€O₂ Batteries. Advanced Energy Materials, 2012, 2, 801-815.	19.5	454
36	Nanocrystalline intermetallics on mesoporous carbon for direct formic acid fuel cell anodes. Nature Chemistry, 2010, 2, 286-293.	13.6	448

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37	High â€œCâ€•rate Li-S cathodes: sulfur imbibed bimodal porous carbons. Energy and Environmental Science, 2011, 4, 2878.	30.8	446
38	Tailoring Porosity in Carbon Nanospheres for Lithiumâ€“Sulfur Battery Cathodes. ACS Nano, 2013, 7, 10920-10930.	14.6	439
39	Tuning the electrolyte network structure to invoke quasi-solid state sulfur conversion and suppress lithium dendrite formation in Liâ€“S batteries. Nature Energy, 2018, 3, 783-791.	39.5	421
40	Graphene-enveloped sulfur in a one pot reaction: a cathode with good coulombic efficiency and high practical sulfur content. Chemical Communications, 2012, 48, 1233-1235.	4.1	415
41	A graphene-like metallic cathode host for long-life and high-loading lithiumâ€“sulfur batteries. Materials Horizons, 2016, 3, 130-136.	12.2	409
42	Long-Life and High-Areal-Capacity Liâ€“S Batteries Enabled by a Light-Weight Polar Host with Intrinsic Polysulfide Adsorption. ACS Nano, 2016, 10, 4111-4118.	14.6	376
43	A high-energy-density lithium-oxygen battery based on a reversible four-electron conversion to lithium oxide. Science, 2018, 361, 777-781.	12.6	356
44	<i>In Situ</i> Reactive Assembly of Scalable Coreâ€“Shell Sulfurâ€“MnO₂ Composite Cathodes. ACS Nano, 2016, 10, 4192-4198.	14.6	351
45	A high capacity thiospinel cathode for Mg batteries. Energy and Environmental Science, 2016, 9, 2273-2277.	30.8	349
46	The Role of Catalysts and Peroxide Oxidation in Lithiumâ€“Oxygen Batteries. Angewandte Chemie - International Edition, 2013, 52, 392-396.	13.8	347
47	Unique behaviour of nonsolvents for polysulphides in lithiumâ€“sulphur batteries. Energy and Environmental Science, 2014, 7, 2697-2705.	30.8	339
48	Structure of the high voltage phase of layered P2-Na_{2/3âˆ’z}[Mn_{1/2}Fe_{1/2}]O₂and the positive effect of Ni substitution on its stability. Energy and Environmental Science, 2015, 8, 2512-2523.	30.8	331
49	Boosting Solidâ€State Diffusivity and Conductivity in Lithium Superionic Argyrodites by Halide Substitution. Angewandte Chemie - International Edition, 2019, 58, 8681-8686.	13.8	325
50	Layered TiS₂ Positive Electrode for Mg Batteries. ACS Energy Letters, 2016, 1, 297-301.	17.4	310
51	Crystal Structure and Electrochemical Properties of A₂MPO₄F Fluorophosphates (A = Na, Li; M = Fe, Mn, Co, Ni). Chemistry of Materials, 2010, 22, 1059-1070.	6.7	300
52	Reviewâ€”The Importance of Chemical Interactions between Sulfur Host Materials and Lithium Polysulfides for Advanced Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2015, 162, A2567-A2576.	2.9	294
53	Crystallite Size Control of Prussian White Analogues for Nonaqueous Potassium-Ion Batteries. ACS Energy Letters, 2017, 2, 1122-1127.	17.4	294
54	Synthesis of nanocrystals and morphology control of hydrothermally prepared LiFePO4. Journal of Materials Chemistry, 2007, 17, 3248.	6.7	290

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55	Investigation of the Mechanism of Mg Insertion in Birnessite in Nonaqueous and Aqueous Rechargeable Mg-Ion Batteries. Chemistry of Materials, 2016, 28, 534-542.	6.7	287
56	Lithium-sulfur batteries. MRS Bulletin, 2014, 39, 436-442.	3.5	284
57	Nature of Li₂O₂ Oxidation in a Liâ€"O₂ Battery Revealed by Operando X-ray Diffraction. Journal of the American Chemical Society, 2014, 136, 16335-16344.	13.7	283
58	A Reversible Solid-State Crystalline Transformation in a Metal Phosphide Induced by Redox Chemistry. Science, 2002, 296, 2012-2015.	12.6	282
59	A Comprehensive Approach toward Stable Lithiumâ€"Sulfur Batteries with High Volumetric Energy Density. Advanced Energy Materials, 2017, 7, 1601630.	19.5	277
60	Topochemical Synthesis of Sodium Metal Phosphate Olivines for Sodium-Ion Batteries. Chemistry of Materials, 2011, 23, 3593-3600.	6.7	274
61	The critical role of phase-transfer catalysis in aprotic sodium oxygen batteries. Nature Chemistry, 2015, 7, 496-501.	13.6	273
62	An InÂVivo Formed Solid Electrolyte Surface Layer Enables Stable Plating of Li Metal. Joule, 2017, 1, 871-886.	24.0	271
63	Radical or Not Radical: Revisiting Lithiumâ€"Sulfur Electrochemistry in Nonaqueous Electrolytes. Advanced Energy Materials, 2015, 5, 1401801.	19.5	270
64	Charge Ordering in Lithium Vanadium Phosphates:Â Electrode Materials for Lithium-Ion Batteries. Journal of the American Chemical Society, 2003, 125, 326-327.	13.7	258
65	Recent Progress in Nanostructured Cathode Materials for Lithium Secondary Batteries. Advanced Functional Materials, 2010, 20, 3818-3834.	14.9	257
66	Lightweight Metallic MgB2 Mediates Polysulfide Redox and Promises High-Energy-Density Lithium-Sulfur Batteries. Joule, 2019, 3, 136-148.	24.0	256
67	X-ray/Neutron Diffraction and Electrochemical Studies of Lithium De/Re-Intercalation in Li1-xCo1/3Ni1/3Mn1/3O2 (x = 0 â†' 1). Chemistry of Materials, 2006, 18, 1901-1910.	6.7	252
68	Rhombohedral Form of Li3V2(PO4)3as a Cathode in Li-Ion Batteries. Chemistry of Materials, 2000, 12, 3240-3242.	6.7	251
69	High-Voltage Superionic Halide Solid Electrolytes for All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2020, 5, 533-539.	17.4	250
70	High areal capacity, long cycle life 4â€‰V ceramic all-solid-state Li-ion batteries enabled by chloride solid electrolytes. Nature Energy, 2022, 7, 83-93.	39.5	249
71	Nitridated TiO2 hollow nanofibers as an anode material for high power lithium ion batteries. Energy and Environmental Science, 2011, 4, 4532.	30.8	242
72	Na-ion mobility in layered Na2FePO4F and olivine Na[Fe,Mn]PO4. Energy and Environmental Science, 2013, 6, 2257.	30.8	228

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73	Proof of Supervalent Doping in Olivine LiFePO₄. Chemistry of Materials, 2008, 20, 6313-6315.	6.7	223
74	Na₁₁Sn₂PS₁₂: a new solid state sodium superionic conductor. Energy and Environmental Science, 2018, 11, 87-93.	30.8	222
75	New Family of Argyrodite Thioantimonate Lithium Superionic Conductors. Journal of the American Chemical Society, 2019, 141, 19002-19013.	13.7	221
76	Reversible lithium uptake by CoP3 at low potential: role of the anion. Electrochemistry Communications, 2002, 4, 516-520.	4.7	218
77	Li2.5V2(PO4)3:Â A Room-Temperature Analogue to the Fast-Ion Conducting High-Temperature Î³-Phase of Li3V2(PO4)3. Chemistry of Materials, 2004, 16, 1456-1465.	6.7	218
78	Energy storage emerging: A perspective from the Joint Center for Energy Storage Research. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12550-12557.	7.1	218
79	A highly active nanostructured metallic oxide cathode for aprotic Liâ€"O₂batteries. Energy and Environmental Science, 2015, 8, 1292-1298.	30.8	213
80	Concurrent Polymerization and Insertion of Aniline in Molybdenum Trioxide:Â Formation and Properties of a [Poly(aniline)]0.24MoO3Nanocomposite. Chemistry of Materials, 1996, 8, 2005-2015.	6.7	211
81	Solvent-Engineered Design of Argyrodite Li₆PS₅X (X = Cl, Br, I) Solid Electrolytes with High Ionic Conductivity. ACS Energy Letters, 2019, 4, 265-270.	17.4	207
82	Rational design of sulphur host materials for Liâ€"S batteries: correlating lithium polysulphide adsorptivity and self-discharge capacity loss. Chemical Communications, 2015, 51, 2308-2311.	4.1	206
83	Carbon Nanotube-Based Supercapacitors with Excellent ac Line Filtering and Rate Capability <i>via</i> Improved Interfacial Impedance. ACS Nano, 2015, 9, 7248-7255.	14.6	202
84	Small Polaron Hopping in LixFePO4Solid Solutions:Â Coupled Lithium-Ion and Electron Mobility. Journal of the American Chemical Society, 2006, 128, 11416-11422.	13.7	196
85	Towards a Stable Organic Electrolyte for the Lithium Oxygen Battery. Advanced Energy Materials, 2015, 5, 1400867.	19.5	192
86	Improving Energy Density and Structural Stability of Manganese Oxide Cathodes for Na-Ion Batteries by Structural Lithium Substitution. Chemistry of Materials, 2016, 28, 9064-9076.	6.7	191
87	Electrochemical Lithium Intercalation into a Polyaniline/ â€‰Vâ€‰2â€‰Oâ€‰5 Nanocomposite. Journal of the Electrochemical Society, 1996, 143, L181-L183.	2.9	178
88	Scalable Synthesis of Tavorite LiFeSO₄F and NaFeSO₄F Cathode Materials. Angewandte Chemie - International Edition, 2010, 49, 8738-8742.	13.8	176
89	Surface Chemistry of LiFePO[sub 4] Studied by MoÌˆssbauer and X-Ray Photoelectron Spectroscopy and Its Effect on Electrochemical Properties. Journal of the Electrochemical Society, 2007, 154, A283.	2.9	175
90	A Highly Active Low Voltage Redox Mediator for Enhanced Rechargeability of Lithiumâ€"Oxygen Batteries. ACS Central Science, 2015, 1, 510-515.	11.3	175

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91	Speciation and Thermal Transformation in Alumina Sols:Â Structures of the Polyhydroxyoxoaluminum Cluster [Al30O8(OH)56(H2O)26]18+and Its Î´-Keggin MoietÃ©. Journal of the American Chemical Society, 2000, 122, 3777-3778.	13.7	174
92	Oxide Catalysts for Rechargeable Highâ€Capacity Liâ€“O₂ Batteries. Advanced Energy Materials, 2012, 2, 903-910.	19.5	172
93	The role of vacancies and defects in Na0.44MnO2 nanowire catalysts for lithiumâ€“oxygen batteries. Energy and Environmental Science, 2012, 5, 9558.	30.8	169
94	Electrospun porous nanorod perovskite oxide/nitrogen-doped graphene composite as a bi-functional catalyst for metal air batteries. Nano Energy, 2014, 10, 192-200.	16.0	168
95	A Powder Neutron Diffraction Investigation of the Two Rhombohedral NASICON Analogues:Â Î³-Na3Fe2(PO4)3and Li3Fe2(PO4)3. Chemistry of Materials, 2000, 12, 525-532.	6.7	167
96	On the Stability of LiFePO[sub 4] Olivine Cathodes under Various Conditions (Electrolyte Solutions,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	166
97	Directing the Lithiumâ€“Sulfur Reaction Pathway via Sparingly Solvating Electrolytes for High Energy Density Batteries. ACS Central Science, 2017, 3, 605-613.	11.3	164
98	Uptake of CO₂ in Layered P2-Na_{0.67}Mn_{0.5}Fe_{0.5}O₂: Insertion of Carbonate Anions. Chemistry of Materials, 2015, 27, 2515-2524.	6.7	162
99	Correlated Migration Invokes Higher Na⁺â€Ion Conductivity in NaSICONâ€Type Solid Electrolytes. Advanced Energy Materials, 2019, 9, 1902373.	19.5	162
100	Alkali-ion Conduction Paths in LiFeSO₄F and NaFeSO₄F Tavorite-Type Cathode Materials. Chemistry of Materials, 2011, 23, 2278-2284.	6.7	156
101	Surfaceâ€Initiated Growth of Thin Oxide Coatings for Liâ€“Sulfur Battery Cathodes. Advanced Energy Materials, 2012, 2, 1490-1496.	19.5	156
102	Na_{4â€Î±}M_{2+Î±/2}(P₂O₇)₂ (2/3 â‰ Î± â‰ 7/8, M = Fe,) Tj ETQq0 0 0 rg Advanced Energy Materials, 2013, 3, 770-776.	19.5	155
103	Aging processes of alumina sol-gels: characterization of new aluminum polyoxycations by aluminum-27 NMR spectroscopy. Chemistry of Materials, 1991, 3, 602-610.	6.7	152
104	A new halospinel superionic conductor for high-voltage all solid state lithium batteries. Energy and Environmental Science, 2020, 13, 2056-2063.	30.8	148
105	Nanostructured materials for energy storage. Solid State Sciences, 2001, 3, 191-200.	0.7	146
106	Tavorite Lithium Iron Fluorophosphate Cathode Materials: Phase Transition and Electrochemistry of LiFePO[sub 4]Fâ€“Li[sub 2]FePO[sub 4]F. Electrochemical and Solid-State Letters, 2010, 13, A43.	2.2	145
107	Implications of 4 e^{â€“} Oxygen Reduction via Iodide Redox Mediation in Liâ€“O₂ Batteries. ACS Energy Letters, 2016, 1, 747-756.	17.4	145
108	Electrochemical Li Insertion into Conductive Polymer/ â€‰Vâ€‰2â€‰Oâ€‰5 Nanocomposites. Journal of the Electrochemical Society, 1997, 144, 3886-3895.	2.9	142

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109	Reversible Calcium Plating and Stripping at Room Temperature Using a Borate Salt. ACS Energy Letters, 2019, 4, 2271-2276.	17.4	142
110	Methods and Protocols for Electrochemical Energy Storage Materials Research. Chemistry of Materials, 2017, 29, 90-105.	6.7	141
111	More on the performance of LiFePO4 electrodesâ€"The effect of synthesis route, solution composition, aging, and temperature. Journal of Power Sources, 2007, 174, 1241-1250.	7.8	139
112	Electrochemical energy storage to power the 21st century. MRS Bulletin, 2011, 36, 486-493.	3.5	139
113	<i>In Situ</i> Monitoring of Fast Li-Ion Conductor Li₇P₃S₁₁ Crystallization Inside a Hot-Press Setup. Chemistry of Materials, 2016, 28, 6152-6165.	6.7	138
114	Stabilizing Lithium Plating by a Biphasic Surface Layer Formed Inâ€...Situ. Angewandte Chemie - International Edition, 2018, 57, 9795-9798.	13.8	134
115	The Importance of Nanometric Passivating Films on Cathodes for Liâ€"Air Batteries. ACS Nano, 2014, 8, 12483-12493.	14.6	131
116	Highly reversible Zn anode with a practical areal capacity enabled by a sustainable electrolyte and superacid interfacial chemistry. Joule, 2022, 6, 1103-1120.	24.0	131
117	The true crystal structure of Li17M4 (M=Ge, Sn, Pb)â€"revised from Li22M5. Journal of Alloys and Compounds, 2001, 329, 82-91.	5.5	125
118	Innovative Approaches to Li-Argyrodite Solid Electrolytes for All-Solid-State Lithium Batteries. Accounts of Chemical Research, 2021, 54, 2717-2728.	15.6	121
119	Simple Synthesis of Graphitic Ordered Mesoporous Carbon Materials by a Solidâ€State Method Using Metal Phthalocyanines. Angewandte Chemie - International Edition, 2009, 48, 5661-5665.	13.8	120
120	Insertion of poly(p-phenylenevinylene) in layered MoO3. Journal of the American Chemical Society, 1992, 114, 6239-6240.	13.7	116
121	Reversible Lithium Uptake by FeP[sub 2]. Electrochemical and Solid-State Letters, 2003, 6, A162.	2.2	115
122	Nanostructured materials for lithium-ion batteries: Surface conductivity vs. bulk ion/electron transport. Faraday Discussions, 2007, 134, 119-141.	3.2	115
123	Structural Evolution and Redox Processes Involved in the Electrochemical Cycling of P2â€"Na_{0.67}[Mn_{0.66}Fe_{0.20}Cu_{0.14}]O₂. Chemistry of Materials, 2017, 29, 6684-6697.	6.7	112
124	Nanostructured Metal Carbides for Aprotic Liâ€"O₂ Batteries: New Insights into Interfacial Reactions and Cathode Stability. Journal of Physical Chemistry Letters, 2015, 6, 2252-2258.	4.6	111
125	Synthesis and characterization of polypyrrole/vanadium pentoxide nanocomposite aerogels. Journal of Materials Chemistry, 1998, 8, 1019-1027.	6.7	109
126	Inhibiting Polysulfide Shuttle in Lithiumâ€"Sulfur Batteries through Lowâ€Ionâ€Pairing Salts and a Triflamide Solvent. Angewandte Chemie - International Edition, 2017, 56, 6192-6197.	13.8	109

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127	Structure and Electrochemistry of Two-Electron Redox Couples in Lithium Metal Fluorophosphates Based on the Tavorite Structure. Chemistry of Materials, 2011, 23, 5138-5148.	6.7	107
128	Layered Lithium Iron Nitride:Â A Promising Anode Material for Li-Ion Batteries. Journal of the American Chemical Society, 2001, 123, 8598-8599.	13.7	105
129	Carbon/MoO2Composite Based on Porous Semi-Graphitized Nanorod Assemblies from In Situ Reaction of Tri-Block Polymers. Chemistry of Materials, 2007, 19, 374-383.	6.7	100
130	6Li NMR Studies of Cation Disorder and Transition Metal Ordering in Li[Ni1/3Mn1/3Co1/3]O2 Using Ultrafast Magic Angle Spinning. Chemistry of Materials, 2005, 17, 6560-6566.	6.7	95
131	Perovskiteâ€"Nitrogenâ€Doped Carbon Nanotube Composite as Bifunctional Catalysts for Rechargeable Lithiumâ€"Air Batteries. ChemSusChem, 2015, 8, 1058-1065.	6.8	92
132	Proof of Intercrystallite Ionic Transport in LiMPO₄ Electrodes (M = Fe, Mn). Journal of the American Chemical Society, 2009, 131, 6044-6045.	13.7	91
133	Coupled Cationâ€"Anion Dynamics Enhances Cation Mobility in Room-Temperature Superionic Solid-State Electrolytes. Journal of the American Chemical Society, 2019, 141, 19360-19372.	13.7	91
134	Synthesis and Characterization of Mesoporous Indium Tin Oxide Possessing an Electronically Conductive Framework. Journal of the American Chemical Society, 2002, 124, 8516-8517.	13.7	90
135	Direct Evidence of Solution-Mediated Superoxide Transport and Organic Radical Formation in Sodium-Oxygen Batteries. Journal of the American Chemical Society, 2016, 138, 11219-11226.	13.7	90
136	Structure and Ion Exchange Properties of a New Cobalt Borate with a Tunnel Structure â€œTemplatedâ€• by Na+. Journal of the American Chemical Society, 2002, 124, 6522-6523.	13.7	89
137	Prussian Blue Mgï£¿Li Hybrid Batteries. Advanced Science, 2016, 3, 1600044.	11.2	89
138	Screening for positive electrodes for magnesium batteries: a protocol for studies at elevated temperatures. Chemical Communications, 2016, 52, 12458-12461.	4.1	86
139	Oxygen Reduction Reaction Using MnO₂Nanotubes/Nitrogen-Doped Exfoliated Graphene Hybrid Catalyst for Li-O₂Battery Applications. Journal of the Electrochemical Society, 2013, 160, A344-A350.	2.9	84
140	Exploiting the paddle-wheel mechanism for the design of fast ion conductors. Nature Reviews Materials, 2022, 7, 389-405.	48.7	83
141	Inhibiting Polysulfide Shuttle in Lithiumâ€"Sulfur Batteries through Lowâ€Ionâ€Pairing Salts and a Triflamide Solvent. Angewandte Chemie, 2017, 129, 6288-6293.	2.0	82
142	The effects of moisture contamination in the Li-O2 battery. Journal of Power Sources, 2014, 268, 565-574.	7.8	81
143	Stable Cycling of a Scalable Graphene-Encapsulated Nanocomposite for Lithiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2014, 6, 10917-10923.	8.0	80
144	Bimodal Mesoporous Carbon Nanofibers with High Porosity: Freestanding and Embedded in Membranes for Lithiumâ€"Sulfur Batteries. Chemistry of Materials, 2014, 26, 3879-3886.	6.7	80

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145	Design Rules for High-Valent Redox in Intercalation Electrodes. Joule, 2020, 4, 1369-1397.	24.0	80
146	Lithium Ytterbium-Based Halide Solid Electrolytes for High Voltage All-Solid-State Batteries. , 2021, 3, 930-938.		80
147	Hydrothermal Synthesis and Crystal Structure of a Novel Layered Vanadate with 1,4-Diazabicyclo[2.2.2]octane as the Structure-Directing Agent:Â (C6H14N2)V6O14Â·H2O. Chemistry of Materials, 1996, 8, 327-329.	6.7	78
148	Electrochemical Properties of Siâ€Ge Heterostructures as an Anode Material for Lithium Ion Batteries. Advanced Functional Materials, 2014, 24, 1458-1464.	14.9	78
149	A conditioning-free magnesium chloride complex electrolyte for rechargeable magnesium batteries. Journal of Materials Chemistry A, 2016, 4, 7160-7164.	10.3	78
150	The Nature and Impact of Side Reactions in Glymeâ€based Sodiumâ€"Oxygen Batteries. ChemSusChem, 2016, 9, 1795-1803.	6.8	76
151	Nanotechnology for a Sustainable Future: Addressing Global Challenges with the International Network4Sustainable Nanotechnology. ACS Nano, 2021, 15, 18608-18623.	14.6	76
152	Fabrication of Three-Dimensional Carbon Nanotube and Metal Oxide Hybrid Mesoporous Architectures. ACS Nano, 2013, 7, 4281-4288.	14.6	72
153	On the Nature of Li Insertion in Tin Composite Oxide Glasses. Electrochemical and Solid-State Letters, 1999, 2, 367.	2.2	71
154	Transport Properties of Polysulfide Species in Lithiumâ€"Sulfur Battery Electrolytes: Coupling of Experiment and Theory. ACS Central Science, 2016, 2, 560-568.	11.3	71
155	Charging sustainable batteries. Nature Sustainability, 2022, 5, 176-178.	23.7	70
156	Targeting Superionic Conductivity by Turning on Anion Rotation at Room Temperature in Fast Ion Conductors. Matter, 2020, 2, 1667-1684.	10.0	69
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