Linda F Nazar

List of Publications by Citations

280 papers	54,738 citations	111 h-index	233 g-index
307 ext. papers	60,659 ext. citations	15.6 avg, IF	8.37 L-index

#	Paper	IF	Citations
280	A highly ordered nanostructured carbon-sulphur cathode for lithium-sulphur batteries. *Nature Materials*, **2009**, 8, 500-6	27	4489
279	Challenges facing lithium batteries and electrical double-layer capacitors. *Angewandte Chemie - International Edition*, **2012**, 51, 9994-10024	16.4	2149
278	Advances in Li–S batteries. *Journal of Materials Chemistry*, **2010**, 20, 9821		1574
277	The emerging chemistry of sodium ion batteries for electrochemical energy storage. *Angewandte Chemie - International Edition*, **2015**, 54, 3431-48	16.4	1542
276	A high-capacity and long-life aqueous rechargeable zinc battery using a metal oxide intercalation cathode. *Nature Energy*, **2016**, 1,	62.3	1416
275	Positive Electrode Materials for Li-Ion and Li-Batteries. *Chemistry of Materials*, **2010**, 22, 691-714	9.6	1407
274	A highly efficient polysulfide mediator for lithium-sulfur batteries. *Nature Communications*, **2015**, 6, 5682	17.4	1385
273	Advances in lithium–sulfur batteries based on multifunctional cathodes and electrolytes. *Nature Energy*, **2016**, 1,	62.3	1317
272	Approaching Theoretical Capacity of LiFePO[sub 4] at Room Temperature at High Rates. *Electrochemical and Solid-State Letters*, **2001**, 4, A170		1244
271	Sodium and sodium-ion energy storage batteries. *Current Opinion in Solid State and Materials Science*, **2012**, 16, 168-177	12	1126
270	New approaches for high energy density lithium-sulfur battery cathodes. *Accounts of Chemical Research*, **2013**, 46, 1135-43	24.3	1033
269	Surface-enhanced redox chemistry of polysulphides on a metallic and polar host for lithium-sulphur batteries. *Nature Communications*, **2014**, 5, 4759	17.4	972
268	Nano-network electronic conduction in iron and nickel olivine phosphates. *Nature Materials*, **2004**, 3, 147-52	27	949
267	Spherical ordered mesoporous carbon nanoparticles with high porosity for lithium-sulfur batteries. *Angewandte Chemie - International Edition*, **2012**, 51, 3591-5	16.4	940
266	Sulfur cathodes based on conductive MXene nanosheets for high-performance lithium-sulfur batteries. *Angewandte Chemie - International Edition*, **2015**, 54, 3907-11	16.4	848
265	Advances in understanding mechanisms underpinning lithium–air batteries. *Nature Energy*, **2016**, 1,	62.3	834
264	A multifunctional 3.5 V iron-based phosphate cathode for rechargeable batteries. *Nature Materials*, **2007**, 6, 749-53	27	792

263	Stabilizing lithium-sulphur cathodes using polysulphide reservoirs. *Nature Communications*, **2011**, 2, 325	17.4	755
262	A facile surface chemistry route to a stabilized lithium metal anode. *Nature Energy*, **2017**, 2,	62.3	618
261	Screening for superoxide reactivity in Li-O2 batteries: effect on Li2O2/LiOH crystallization. *Journal of the American Chemical Society*, **2012**, 134, 2902-5	16.4	617
260	New horizons for inorganic solid state ion conductors. *Energy and Environmental Science*, **2018**, 11, 1945-1976	35.4	601
259	A nitrogen and sulfur dual-doped carbon derived from polyrhodanine@cellulose for advanced lithium-sulfur batteries. *Advanced Materials*, **2015**, 27, 6021-8	24	595
258	Review on electrode–electrolyte solution interactions, related to cathode materials for Li-ion batteries. *Journal of Power Sources*, **2007**, 165, 491-499	8.9	544
257	Current density dependence of peroxide formation in the Li-O2 battery and its effect on charge. *Energy and Environmental Science*, **2013**, 6, 1772	35.4	532
256	Nanostructured Composites: A High Capacity, Fast Rate Li3V2(PO4)3/Carbon Cathode for Rechargeable Lithium Batteries. *Advanced Materials*, **2002**, 14, 1525-1528	24	520
255	Scientific Challenges for the Implementation of Zn-Ion Batteries. *Joule*, **2020**, 4, 771-799	27.8	482
254	Electrochemical property: Structure relationships in monoclinic Li(3-y)V2(PO4)3. *Journal of the American Chemical Society*, **2003**, 125, 10402-11	16.4	469
253	Synthesis of a metallic mesoporous pyrochlore as a catalyst for lithium-O2 batteries. *Nature Chemistry*, **2012**, 4, 1004-10	17.6	467
252	Interwoven MXene Nanosheet/Carbon-Nanotube Composites as Li-S Cathode Hosts. *Advanced Materials*, **2017**, 29, 1603040	24	451
251	Tuning Transition Metal Oxide–Sulfur Interactions for Long Life Lithium Sulfur Batteries: The "Goldilocks" Principle. *Advanced Energy Materials*, **2016**, 6, 1501636	21.8	448
250	High-rate Li-S cathodes: sulfur imbibed bimodal porous carbons. *Energy and Environmental Science*, **2011**, 4, 2878	35.4	422
249	Non-Aqueous and Hybrid Li-O2 Batteries. *Advanced Energy Materials*, **2012**, 2, 801-815	21.8	419
248	Understanding the Nature of Absorption/Adsorption in Nanoporous Polysulfide Sorbents for the Li–S Battery. *Journal of Physical Chemistry C*, **2012**, 116, 19653-19658	3.8	411
247	Nanocrystalline intermetallics on mesoporous carbon for direct formic acid fuel cell anodes. *Nature Chemistry*, **2010**, 2, 286-93	17.6	405
246	Tailoring porosity in carbon nanospheres for lithium-sulfur battery cathodes. *ACS Nano*, **2013**, 7, 10920-30	16.7	391

245	Graphene-enveloped sulfur in a one pot reaction: a cathode with good coulombic efficiency and high practical sulfur content. *Chemical Communications*, **2012**, 48, 1233-5	5.8	391
244	Aqueous vs. nonaqueous Zn-ion batteries: consequences of the desolvation penalty at the interface. *Energy and Environmental Science*, **2018**, 11, 881-892	35.4	389
243	Sulfur Speciation in Li-S Batteries Determined by Operando X-ray Absorption Spectroscopy. *Journal of Physical Chemistry Letters*, **2013**, 4, 3227-3232	6.4	382
242	A graphene-like metallic cathode host for long-life and high-loading lithium–sulfur batteries. *Materials Horizons*, **2016**, 3, 130-136	14.4	355
241	The role of catalysts and peroxide oxidation in lithium-oxygen batteries. *Angewandte Chemie - International Edition*, **2013**, 52, 392-6	16.4	328
240	Long-Life and High-Areal-Capacity Li-S Batteries Enabled by a Light-Weight Polar Host with Intrinsic Polysulfide Adsorption. *ACS Nano*, **2016**, 10, 4111-8	16.7	314
239	In Situ Reactive Assembly of Scalable Core-Shell Sulfur-MnO2 Composite Cathodes. *ACS Nano*, **2016**, 10, 4192-8	16.7	302
238	Tuning the electrolyte network structure to invoke quasi-solid state sulfur conversion and suppress lithium dendrite formation in Li-S batteries. *Nature Energy*, **2018**, 3, 783-791	62.3	282
237	Unique behaviour of nonsolvents for polysulphides in lithium–sulphur batteries. *Energy and Environmental Science*, **2014**, 7, 2697-2705	35.4	280
236	Lithium-Oxygen Batteries and Related Systems: Potential, Status, and Future. *Chemical Reviews*, **2020**, 120, 6626-6683	68.1	279
235	Synthesis of nanocrystals and morphology control of hydrothermally prepared LiFePO4. *Journal of Materials Chemistry*, **2007**, 17, 3248		272
234	A high capacity thiospinel cathode for Mg batteries. *Energy and Environmental Science*, **2016**, 9, 2273-2277	35.4	266
233	Crystal Structure and Electrochemical Properties of A2MPO4F Fluorophosphates (A = Na, Li; M = Fe, Mn, Co, Ni). *Chemistry of Materials*, **2010**, 22, 1059-1070	9.6	265
232	A reversible solid-state crystalline transformation in a metal phosphide induced by redox chemistry. *Science*, **2002**, 296, 2012-5	33.3	264
231	Review—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	3.9	263
230	Structure of the high voltage phase of layered P2-Na2/3[Mn1/2Fe1/2]O2 and the positive effect of Ni substitution on its stability. *Energy and Environmental Science*, **2015**, 8, 2512-2523	35.4	257
229	Topochemical Synthesis of Sodium Metal Phosphate Olivines for Sodium-Ion Batteries. *Chemistry of Materials*, **2011**, 23, 3593-3600	9.6	250
228	Lithium-sulfur batteries. *MRS Bulletin*, **2014**, 39, 436-442	3.2	249

227	Layered TiS2 Positive Electrode for Mg Batteries. *ACS Energy Letters*, **2016**, 1, 297-301	20.1	246
226	The critical role of phase-transfer catalysis in aprotic sodium oxygen batteries. *Nature Chemistry*, **2015**, 7, 496-501	17.6	241
225	A Comprehensive Approach toward Stable Lithium–Sulfur Batteries with High Volumetric Energy Density. *Advanced Energy Materials*, **2017**, 7, 1601630	21.8	240
224	Nature of Li2O2 oxidation in a Li-O2 battery revealed by operando X-ray diffraction. *Journal of the American Chemical Society*, **2014**, 136, 16335-44	16.4	236
223	Recent Progress in Nanostructured Cathode Materials for Lithium Secondary Batteries. *Advanced Functional Materials*, **2010**, 20, 3818-3834	15.6	233
222	A high-energy-density lithium-oxygen battery based on a reversible four-electron conversion to lithium oxide. *Science*, **2018**, 361, 777-781	33.3	232
221	Nitridated TiO2 hollow nanofibers as an anode material for high power lithium ion batteries. *Energy and Environmental Science*, **2011**, 4, 4532	35.4	230
220	Charge ordering in lithium vanadium phosphates: electrode materials for lithium-ion batteries. *Journal of the American Chemical Society*, **2003**, 125, 326-7	16.4	230
219	Rhombohedral Form of Li3V2(PO4)3 as a Cathode in Li-Ion Batteries. *Chemistry of Materials*, **2000**, 12, 3240-3242	9.6	229
218	Investigation of the Mechanism of Mg Insertion in Birnessite in Nonaqueous and Aqueous Rechargeable Mg-Ion Batteries. *Chemistry of Materials*, **2016**, 28, 534-542	9.6	226
217	Crystallite Size Control of Prussian White Analogues for Nonaqueous Potassium-Ion Batteries. *ACS Energy Letters*, **2017**, 2, 1122-1127	20.1	223
216	An In Vivo Formed Solid Electrolyte Surface Layer Enables Stable Plating of Li Metal. *Joule*, **2017**, 1, 871-886	39.8	213
215	X-ray/Neutron Diffraction and Electrochemical Studies of Lithium De/Re-Intercalation in Li1-xCo1/3Ni1/3Mn1/3O2 (x = 0 -1). *Chemistry of Materials*, **2006**, 18, 1901-1910	9.6	205
214	Radical or Not Radical: Revisiting Lithium–Sulfur Electrochemistry in Nonaqueous Electrolytes. *Advanced Energy Materials*, **2015**, 5, 1401801	21.8	204
213	Reversible lithium uptake by CoP3 at low potential: role of the anion. *Electrochemistry Communications*, **2002**, 4, 516-520	5.1	203
212	Proof of Supervalent Doping in Olivine LiFePO4. *Chemistry of Materials*, **2008**, 20, 6313-6315	9.6	202
211	Li2.5V2(PO4)3: A Room-Temperature Analogue to the Fast-Ion Conducting High-Temperature Phase of Li3V2(PO4)3. *Chemistry of Materials*, **2004**, 16, 1456-1465	9.6	200
210	Na-ion mobility in layered Na2FePO4F and olivine Na[Fe,Mn]PO4. *Energy and Environmental Science*, **2013**, 6, 2257	35.4	195

209	A highly active nanostructured metallic oxide cathode for aprotic Li□O2 batteries. *Energy and Environmental Science*, **2015**, 8, 1292-1298	35.4	190
208	Rational design of sulphur host materials for Li-S batteries: correlating lithium polysulphide adsorptivity and self-discharge capacity loss. *Chemical Communications*, **2015**, 51, 2308-11	5.8	188
207	Concurrent Polymerization and Insertion of Aniline in Molybdenum Trioxide: Formation and Properties of a [Poly(aniline)]0.24MoO3 Nanocomposite. *Chemistry of Materials*, **1996**, 8, 2005-2015	9.6	184
206	Lightweight Metallic MgB2 Mediates Polysulfide Redox and Promises High-Energy-Density Lithium-Sulfur Batteries. *Joule*, **2019**, 3, 136-148	27.8	178
205	Lithiumbatterien und elektrische Doppelschichtkondensatoren: aktuelle Herausforderungen. *Angewandte Chemie*, **2012**, 124, 10134-10166	3.6	176
204	Small polaron hopping in Li(x)FePO4 solid solutions: coupled lithium-ion and electron mobility. *Journal of the American Chemical Society*, **2006**, 128, 11416-22	16.4	174
203	Towards a Stable Organic Electrolyte for the Lithium Oxygen Battery. *Advanced Energy Materials*, **2015**, 5, 1400867	21.8	172
202	Boosting Solid-State Diffusivity and Conductivity in Lithium Superionic Argyrodites by Halide Substitution. *Angewandte Chemie - International Edition*, **2019**, 58, 8681-8686	16.4	168
201	Oxide Catalysts for Rechargeable High-Capacity Li□O2 Batteries. *Advanced Energy Materials*, **2012**, 2, 903-910	21.8	165
200	Surface Chemistry of LiFePO[sub 4] Studied by Mo ssbauer and X-Ray Photoelectron Spectroscopy and Its Effect on Electrochemical Properties. *Journal of the Electrochemical Society*, **2007**, 154, A283	3.9	164
199	Carbon Nanotube-Based Supercapacitors with Excellent ac Line Filtering and Rate Capability via Improved Interfacial Impedance. *ACS Nano*, **2015**, 9, 7248-55	16.7	163
198	Electrochemical Lithium Intercalation into a Polyaniline/ V 2 O 5 Nanocomposite. *Journal of the Electrochemical Society*, **1996**, 143, L181-L183	3.9	162
197	Speciation and Thermal Transformation in Alumina Sols: Structures of the Polyhydroxyoxoaluminum Cluster [Al30O8(OH)56(H2O)26]18+ and Its □Keggin Moiet□ *Journal of the American Chemical Society*, **2000**, 122, 3777-3778	16.4	160
196	Na11Sn2PS12: a new solid state sodium superionic conductor. *Energy and Environmental Science*, **2018**, 11, 87-93	35.4	160
195	Sulfur Cathodes Based on Conductive MXene Nanosheets for High-Performance Lithium□Sulfur Batteries. *Angewandte Chemie*, **2015**, 127, 3979-3983	3.6	158
194	The role of vacancies and defects in Na0.44MnO2 nanowire catalysts for lithium□oxygen batteries. *Energy and Environmental Science*, **2012**, 5, 9558	35.4	152
193	Spherical Ordered Mesoporous Carbon Nanoparticles with High Porosity for Lithium□Sulfur Batteries. *Angewandte Chemie*, **2012**, 124, 3651-3655	3.6	152
192	Scalable synthesis of tavorite LiFeSO4F and NaFeSO4F cathode materials. *Angewandte Chemie - International Edition*, **2010**, 49, 8738-42	16.4	152

191	A Highly Active Low Voltage Redox Mediator for Enhanced Rechargeability of Lithium-Oxygen Batteries. *ACS Central Science*, **2015**, 1, 510-5	16.8	150
190	Surface-Initiated Growth of Thin Oxide Coatings for Li□Sulfur Battery Cathodes. *Advanced Energy Materials*, **2012**, 2, 1490-1496	21.8	149
189	On the Stability of LiFePO[sub 4] Olivine Cathodes under Various Conditions (Electrolyte Solutions, Temperatures). *Electrochemical and Solid-State Letters*, **2007**, 10, A40		149
188	Electrospun porous nanorod perovskite oxide/nitrogen-doped graphene composite as a bi-functional catalyst for metal air batteries. *Nano Energy*, **2014**, 10, 192-200	17.1	145
187	A Powder Neutron Diffraction Investigation of the Two Rhombohedral NASICON Analogues:´ □Na3Fe2(PO4)3and Li3Fe2(PO4)3. *Chemistry of Materials*, **2000**, 12, 525-532	9.6	145
186	Alkali-ion Conduction Paths in LiFeSO4F and NaFeSO4F Tavorite-Type Cathode Materials. *Chemistry of Materials*, **2011**, 23, 2278-2284	9.6	142
185	Aging processes of alumina sol-gels: characterization of new aluminum polyoxycations by aluminum-27 NMR spectroscopy. *Chemistry of Materials*, **1991**, 3, 602-610	9.6	141
184	Nanostructured materials for energy storage. *Solid State Sciences*, **2001**, 3, 191-200		139
183	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	9.6	137
182	Tavorite Lithium Iron Fluorophosphate Cathode Materials: Phase Transition and Electrochemistry of LiFePO[sub 4]F□i[sub 2]FePO[sub 4]F. *Electrochemical and Solid-State Letters*, **2010**, 13, A43		135
181	Uptake of CO2 in Layered P2-Na0.67Mn0.5Fe0.5O2: Insertion of Carbonate Anions. *Chemistry of Materials*, **2015**, 27, 2515-2524	9.6	131
180	Electrochemical Li Insertion into Conductive Polymer/ V 2 O 5 Nanocomposites. *Journal of the Electrochemical Society*, **1997**, 144, 3886-3895	3.9	129
179	Na4-□M2+□2(P2O7)2 (2/3 □7/8, M = Fe, Fe0.5Mn0.5, Mn): A Promising Sodium Ion Cathode for Na-ion Batteries. *Advanced Energy Materials*, **2013**, 3, 770-776	21.8	128
178	Implications of 4 e□Oxygen Reduction via Iodide Redox Mediation in Li□O2 Batteries. *ACS Energy Letters*, **2016**, 1, 747-756	20.1	127
177	Directing the Lithium-Sulfur Reaction Pathway via Sparingly Solvating Electrolytes for High Energy Density Batteries. *ACS Central Science*, **2017**, 3, 605-613	16.8	125
176	More on the performance of LiFePO4 electrodes□he effect of synthesis route, solution composition, aging, and temperature. *Journal of Power Sources*, **2007**, 174, 1241-1250	8.9	125
175	Solvent-Engineered Design of Argyrodite Li6PS5X (X = Cl, Br, I) Solid Electrolytes with High Ionic Conductivity. *ACS Energy Letters*, **2019**, 4, 265-270	20.1	118
174	The importance of nanometric passivating films on cathodes for Li-air batteries. *ACS Nano*, **2014**, 8, 12483-12493	13.9	116

173	New Family of Argyrodite Thioantimonate Lithium Superionic Conductors. *Journal of the American Chemical Society*, **2019**, 141, 19002-19013	16.4	115
172	High-Voltage Superionic Halide Solid Electrolytes for All-Solid-State Li-Ion Batteries. *ACS Energy Letters*, **2020**, 5, 533-539	20.1	113
171	In Situ Monitoring of Fast Li-Ion Conductor Li7P3S11 Crystallization Inside a Hot-Press Setup. *Chemistry of Materials*, **2016**, 28, 6152-6165	9.6	113
170	Simple synthesis of graphitic ordered mesoporous carbon materials by a solid-state method using metal phthalocyanines. *Angewandte Chemie - International Edition*, **2009**, 48, 5661-5	16.4	112
169	Reversible Lithium Uptake by FeP[sub 2]. *Electrochemical and Solid-State Letters*, **2003**, 6, A162		110
168	Electrochemical energy storage to power the 21st century. *MRS Bulletin*, **2011**, 36, 486-493	3.2	108
167	The true crystal structure of Li17M4 (M=Ge, Sn, Pb)Revised from Li22M5. *Journal of Alloys and Compounds*, **2001**, 329, 82-91	5.7	108
166	Methods and Protocols for Electrochemical Energy Storage Materials Research. *Chemistry of Materials*, **2017**, 29, 90-105	9.6	106
165	Nanostructured materials for lithium-ion batteries: surface conductivity vs. bulk ion/electron transport. *Faraday Discussions*, **2007**, 134, 119-41; discussion 215-33, 415-9	3.6	104
164	Nanostructured Metal Carbides for Aprotic Li-O2 Batteries: New Insights into Interfacial Reactions and Cathode Stability. *Journal of Physical Chemistry Letters*, **2015**, 6, 2252-8	6.4	103
163	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	11.5	103
162	. *Journal of Materials Chemistry*, **1998**, 8, 1019-1027		102
161	Insertion of poly(p-phenylenevinylene) in layered MoO3. *Journal of the American Chemical Society*, **1992**, 114, 6239-6240	16.4	100
160	The Role of Catalysts and Peroxide Oxidation in Lithium□Oxygen Batteries. *Angewandte Chemie*, **2013**, 125, 410-414	3.6	98
159	Natriumionenbatterien f□die elektrochemische Energiespeicherung. *Angewandte Chemie*, **2015**, 127, 3495-3513	3.6	98
158	Stabilizing Lithium Plating by a Biphasic Surface Layer Formed In Situ. *Angewandte Chemie - International Edition*, **2018**, 57, 9795-9798	16.4	98
157	Carbon/MoO2 Composite Based on Porous Semi-Graphitized Nanorod Assemblies from In Situ Reaction of Tri-Block Polymers. *Chemistry of Materials*, **2007**, 19, 374-383	9.6	96
156	Structure and Electrochemistry of Two-Electron Redox Couples in Lithium Metal Fluorophosphates Based on the Tavorite Structure. *Chemistry of Materials*, **2011**, 23, 5138-5148	9.6	94

155	Layered lithium iron nitride: a promising anode material for li-ion batteries. *Journal of the American Chemical Society*, **2001**, 123, 8598-9	16.4	94
154	Reversible Calcium Plating and Stripping at Room Temperature Using a Borate Salt. *ACS Energy Letters*, **2019**, 4, 2271-2276	20.1	89
153	Inhibiting Polysulfide Shuttle in Lithium-Sulfur Batteries through Low-Ion-Pairing Salts and a Triflamide Solvent. *Angewandte Chemie - International Edition*, **2017**, 56, 6192-6197	16.4	86
152	Correlated Migration Invokes Higher Na+-Ion Conductivity in NaSICON-Type Solid Electrolytes. *Advanced Energy Materials*, **2019**, 9, 1902373	21.8	86
151	Synthesis and characterization of mesoporous indium tin oxide possessing an electronically conductive framework. *Journal of the American Chemical Society*, **2002**, 124, 8516-7	16.4	86
150	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	9.6	85
149	Structural Evolution and Redox Processes Involved in the Electrochemical Cycling of P2□Na0.67[Mn0.66Fe0.20Cu0.14]O2. *Chemistry of Materials*, **2017**, 29, 6684-6697	9.6	84
148	Structure and ion exchange properties of a new cobalt borate with a tunnel structure "templated" by Na+. *Journal of the American Chemical Society*, **2002**, 124, 6522-3	16.4	83
147	Proof of intercrystallite ionic transport in LiMPO(4) electrodes (M = Fe, Mn). *Journal of the American Chemical Society*, **2009**, 131, 6044-5	16.4	80
146	Direct Evidence of Solution-Mediated Superoxide Transport and Organic Radical Formation in Sodium-Oxygen Batteries. *Journal of the American Chemical Society*, **2016**, 138, 11219-26	16.4	79
145	Perovskite-nitrogen-doped carbon nanotube composite as bifunctional catalysts for rechargeable lithium-air batteries. *ChemSusChem*, **2015**, 8, 1058-65	8.3	77
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143	Oxygen Reduction Reaction Using MnO2Nanotubes/Nitrogen-Doped Exfoliated Graphene Hybrid Catalyst for Li-O2Battery Applications. *Journal of the Electrochemical Society*, **2013**, 160, A344-A350	3.9	77
142	Stable cycling of a scalable graphene-encapsulated nanocomposite for lithium-sulfur batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 10917-23	9.5	72
141	The effects of moisture contamination in the Li-O2 battery. *Journal of Power Sources*, **2014**, 268, 565-574	8.9	72
140	Prussian Blue Mg-Li Hybrid Batteries. *Advanced Science*, **2016**, 3, 1600044	13.6	72
139	Electrochemical Properties of Si-Ge Heterostructures as an Anode Material for Lithium Ion Batteries. *Advanced Functional Materials*, **2014**, 24, 1458-1464	15.6	71
138	Fabrication of three-dimensional carbon nanotube and metal oxide hybrid mesoporous architectures. *ACS Nano*, **2013**, 7, 4281-8	16.7	69

137	On the Nature of Li Insertion in Tin Composite Oxide Glasses. *Electrochemical and Solid-State Letters*, **1999**, 2, 367		69
136	A new halospinel superionic conductor for high-voltage all solid state lithium batteries. *Energy and Environmental Science*, **2020**, 13, 2056-2063	35.4	66
135	Screening for positive electrodes for magnesium batteries: a protocol for studies at elevated temperatures. *Chemical Communications*, **2016**, 52, 12458-12461	5.8	65
134	The Nature and Impact of Side Reactions in Glyme-based Sodium-Oxygen Batteries. *ChemSusChem*, **2016**, 9, 1795-803	8.3	64
133	Facile Reversible Displacement Reaction of Cu[sub 3]P with Lithium at Low Potential. *Electrochemical and Solid-State Letters*, **2004**, 7, A187		62
132	Lithium metal fluorosulfate polymorphs as positive electrodes for Li-ion batteries: synthetic strategies and effect of cation ordering. *Energy and Environmental Science*, **2012**, 5, 6238	35.4	60
131	An Inorganic Tire-Tread Lattice: Hydrothermal Synthesis of the Layered Vanadate [N(CH3)4]5V18O46 with a Supercell Structure. *Angewandte Chemie - International Edition*, **1999**, 38, 2888-2891	16.4	60
130	Uptake of lithium by layered molybdenum oxide and its tin exchanged derivatives: high volumetric capacity materials. *Solid State Ionics*, **2000**, 133, 37-50	3.3	59
129	Hydrothermal Synthesis and Crystal Structure of a Novel Layered Vanadate with 1,4-Diazabicyclo[2.2.2]octane as the Structure-Directing Agent: (C6H14N2)V6O14·H2O. *Chemistry of Materials*, **1996**, 8, 327-329	9.6	59
128	A conditioning-free magnesium chloride complex electrolyte for rechargeable magnesium batteries. *Journal of Materials Chemistry A*, **2016**, 4, 7160-7164	13	59
127	Transport Properties of Polysulfide Species in Lithium-Sulfur Battery Electrolytes: Coupling of Experiment and Theory. *ACS Central Science*, **2016**, 2, 560-8	16.8	59
126	Coupled Cation-Anion Dynamics Enhances Cation Mobility in Room-Temperature Superionic Solid-State Electrolytes. *Journal of the American Chemical Society*, **2019**, 141, 19360-19372	16.4	56
125	A new class of materials for lithium-ion batteries: iron(III) borates. *Journal of Power Sources*, **2001**, 97-98, 254-257	8.9	55
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123	Bi-Functional N-Doped CNT/Graphene Composite as Highly Active and Durable Electrocatalyst for Metal Air Battery Applications. *Journal of the Electrochemical Society*, **2013**, 160, A2244-A2250	3.9	52
122	Highly Active Graphene Nanosheets Prepared via Extremely Rapid Heating as Efficient Zinc-Air Battery Electrode Material. *Journal of the Electrochemical Society*, **2013**, 160, F910-F915	3.9	51
121	In vitro evaluation of the dehydration characteristics of silicone hydrogel and conventional hydrogel contact lens materials. *Contact Lens and Anterior Eye*, **2002**, 25, 147-56	4.1	51
120	Decomposition Reaction of Lithium Bis(oxalato)borate in the Rechargeable Lithium-Oxygen Cell. *Electrochemical and Solid-State Letters*, **2011**, 14, A185		49

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