Marca M Doeff

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152	10,034	55	97
papers	citations	h-index	g-index
165	11,223 ext. citations	9.2	6.25
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
152	Surface reconstruction and chemical evolution of stoichiometric layered cathode materials for lithium-ion batteries. <i>Nature Communications</i> , 2014 , 5, 3529	17.4	860
151	Effect of Surface Carbon Structure on the Electrochemical Performance of LiFePO[sub 4]. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, A207		423
150	Electrochemical Insertion of Sodium into Carbon. <i>Journal of the Electrochemical Society</i> , 1993 , 140, L16	9-1.1970	385
149	The origin of high electrolyte-electrode interfacial resistances in lithium cells containing garnet type solid electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18294-300	3.6	335
148	A review of Ni-based layered oxides for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 874-901	13	303
147	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. <i>Chemical Reviews</i> , 2017 , 117, 13123-13186	68.1	291
146	Effect of surface microstructure on electrochemical performance of garnet solid electrolytes. <i>ACS Applied Materials & District Materia</i>	9.5	277
145	Electrochemical Performance of Sol-Gel Synthesized LiFePO[sub 4] in Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1279	3.9	225
144	Factors Influencing the Quality of Carbon Coatings on LiFePO[sub 4]. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A389	3.9	211
143	The Measurement of a Complete Set of Transport Properties for a Concentrated Solid Polymer Electrolyte Solution. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 1859-1868	3.9	199
142	Optimization of carbon coatings on LiFePO4. <i>Journal of Power Sources</i> , 2006 , 163, 180-184	8.9	193
141	Structural and Electrochemical Consequences of Al and Ga Cosubstitution in LiLaZrO Solid Electrolytes. <i>Chemistry of Materials</i> , 2016 , 28, 2384-2392	9.6	181
140	Metal segregation in hierarchically structured cathode materials for high-energy lithium batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	179
139	Interrelationships among Grain Size, Surface Composition, Air Stability, and Interfacial Resistance of Al-Substituted Li7La3Zr2O12 Solid Electrolytes. <i>ACS Applied Materials & District Amplied Materials & District Mater</i>	4 9 -55	172
138	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. <i>Nano Letters</i> , 2018 , 18, 3241-3249	11.5	163
137	New materials based on a layered sodium titanate for dual electrochemical Na and Li intercalation systems. <i>Energy and Environmental Science</i> , 2013 , 6, 2538	35.4	163
136	Orthorhombic Na x MnO2 as a Cathode Material for Secondary Sodium and Lithium Polymer Batteries. <i>Journal of the Electrochemical Society</i> , 1994 , 141, L145-L147	3.9	155

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135	Nanoporous spherical LiFePO4 for high performance cathodes. <i>Energy and Environmental Science</i> , 2011 , 4, 885	35.4	137
134	Effect of microstructure and surface impurity segregation on the electrical and electrochemical properties of dense Al-substituted Li7La3Zr2O12. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 172-181	13	136
133	Profiling the nanoscale gradient in stoichiometric layered cathode particles for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 3077	35.4	133
132	Electrochemical Characteristics of Layered Transition Metal Oxide Cathode Materials for Lithium Ion Batteries: Surface, Bulk Behavior, and Thermal Properties. <i>Accounts of Chemical Research</i> , 2018 , 51, 89-96	24.3	128
131	A spongy nickel-organic CO reduction photocatalyst for nearly 100% selective CO production. <i>Science Advances</i> , 2017 , 3, e1700921	14.3	124
130	TEM Study of Fracturing in Spherical and Plate-like LiFePO[sub 4] Particles. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, A25		119
129	Transport Properties of the Solid Polymer Electrolyte System P(EO)nLiTFSI. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 3476-3480	3.4	109
128	Charge Heterogeneity and Surface Chemistry in Polycrystalline Cathode Materials. <i>Joule</i> , 2018 , 2, 464-4	4727 .8	107
127	Sodiation Kinetics of Metal Oxide Conversion Electrodes: A Comparative Study with Lithiation. <i>Nano Letters</i> , 2015 , 15, 5755-63	11.5	100
126	Lithium Insertion Processes of Orthorhombic Na x MnO2-Based Electrode Materials. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 2507-2516	3.9	98
125	Direct synthesis of LiNi1/3Co1/3Mn1/3O2 from nitrate precursors. <i>Electrochemistry Communications</i> , 2004 , 6, 767-772	5.1	93
124	Hyperfine fields at the Li site in LiFePO(4)-type olivine materials for lithium rechargeable batteries: a (7)Li MAS NMR and SQUID study. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3832-3	16.4	93
123	Transitions from near-surface to interior redox upon lithiation in conversion electrode materials. <i>Nano Letters</i> , 2015 , 15, 1437-44	11.5	92
122	Spherical nanoporous LiCoPO4/C composites as high performance cathode materials for rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9984		87
121	Chemical and structural stability of lithium-ion battery electrode materials under electron beam. <i>Scientific Reports</i> , 2014 , 4, 5694	4.9	86
120	Depth-Dependent Redox Behavior of LiNi0.6Mn0.2Co0.2O2. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A696-A704	3.9	84
119	Carbon Surface Layers on a High-Rate LiFePO[sub 4]. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A360		82
118	Impact of carbon structure and morphology on the electrochemical performance of LiFePO4/C composites. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 995-1001	2.6	78

117	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. ACS Energy Letters, 1399-	1 40 4£	78
116	Electrochemical and Physical Properties of Ti-Substituted Layered Nickel Manganese Cobalt Oxide (NMC) Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1383-A1392	3.9	77
115	Nanoscale LiFePO[sub 4] and Li[sub 4]Ti[sub 5]O[sub 12] for High Rate Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A1041	3.9	77
114	[sup 7]Li and [sup 31]P Magic Angle Spinning Nuclear Magnetic Resonance of LiFePO[sub 4]-Type Materials. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, A95		68
113	Structure and Electrochemistry of LiNi[sub 1B]Co[sub 1BD]M[sub y]Mn[sub 1B]O[sub 2] (M=Ti, Al, Fe) Positive Electrode Materials. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A192	3.9	66
112	Titanate Anodes for Sodium Ion Batteries. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014 , 24, 5-14	3.2	64
111	Computational and Experimental Investigation of Ti Substitution in Li1(NixMnxCo1-2x-yTiy)O2 for Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3649-55	6.4	64
110	Synthesis, Crystal Chemistry, and Electrochemical Properties of Li(7-2x)La3Zr(2-x)Mo(x)O12 (x = 0.1-0.4): Stabilization of the Cubic Garnet Polymorph via Substitution of Zr(4+) by Mo(6+). <i>Inorganic Chemistry</i> , 2015 , 54, 10440-9	5.1	63
109	Three-dimensional elemental imaging of Li-ion solid-state electrolytes using fs-laser induced breakdown spectroscopy (LIBS). <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 2295-2302	3.7	62
108	Structural Underpinnings of the Enhanced Cycling Stability upon Al-Substitution in LiNi0.45Mn0.45Co0.1 AlyO2 Positive Electrode Materials for Li-ion Batteries. <i>Chemistry of Materials</i> , 2012 , 24, 3307-3317	9.6	62
107	The Use of Polydisulfides and Copolymeric Disulfides in the Li/PEO/SRPE Battery System. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2077-2081	3.9	62
106	Mesoscale Chemomechanical Interplay of the LiNi0.8Co0.15Al0.05O2 Cathode in Solid-State Polymer Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 491-501	9.6	62
105	A High-Rate Manganese Oxide for Rechargeable Lithium Battery Applications. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A230	3.9	60
104	Li ion conductors based on laponite/poly(ethylene oxide) composites. <i>Solid State Ionics</i> , 1998 , 113-115, 109-115	3.3	59
103	Corrosion of Aluminum Current Collectors in Lithium-Ion Batteries with Electrolytes Containing LiPF[sub 6]. <i>Journal of the Electrochemical Society</i> , 2005 , 152, B448	3.9	59
102	Compatibility of Li[sub x]Ti[sub y]Mn[sub 1][O[sub 2] (y=0, 0.11) Electrode Materials with Pyrrolidinium-Based Ionic Liquid Electrolyte Systems. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A172	3.9	57
101	Lepidocrocite-type Layered Titanate Structures: New Lithium and Sodium Ion Intercalation Anode Materials. <i>Chemistry of Materials</i> , 2014 , 26, 2502-2512	9.6	56
100	Rechargeable Na / Na x CoO2 and Na15Pb4 / Na x CoO2 Polymer Electrolyte Cells. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 2726-2733	3.9	56

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99	Interface Instability of Fe-Stabilized LiLaZrO versus Li Metal. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3780-3785	3.8	55	
98	Transport properties of binary salt polymer electrolytes. <i>Journal of Power Sources</i> , 2000 , 89, 227-231	8.9	55	
97	Transport Property and Raman Spectroscopic Studies of the Polymer Electrolyte System P(EO)n - NaTFSI. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 1586-1592	3.9	55	
96	Microwave Plasma Chemical Vapor Deposition of Carbon Coatings on LiNi1 BCo1 BMn1 BO2 for Li-Ion Battery Composite Cathodes. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A48	3.9	53	
95	Aliovalent titanium substitution in layered mixed Li NiMnto oxides for lithium battery applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9991		52	
94	An electrochemical study of the substitution and decomposition reactions of (arene)tricarbonylchromium radical cations. <i>Journal of the American Chemical Society</i> , 1988 , 110, 2109-7	21 ¹⁶ 6 ⁴	51	
93	Elucidation of the surface characteristics and electrochemistry of high-performance LiNiO2. <i>Chemical Communications</i> , 2016 , 52, 4239-42	5.8	50	
92	Thin Film Rechargeable Room Temperature Batteries Using Solid Redox Polymerization Electrodes. Journal of the Electrochemical Society, 1992 , 139, 1808-1812	3.9	50	
91	Garnet Electrolyte Surface Degradation and Recovery. ACS Applied Energy Materials, 2018, 1, 7244-725	2 6.1	50	
90	Effects of crystallinity and impurities on the electrical conductivity of Lilla Ir to thin films. <i>Thin Solid Films</i> , 2015 , 576, 55-60	2.2	47	
89	Propagation topography of redox phase transformations in heterogeneous layered oxide cathode materials. <i>Nature Communications</i> , 2018 , 9, 2810	17.4	45	
88	Transport property measurements of polymer electrolytes. <i>Electrochimica Acta</i> , 1998 , 43, 1387-1393	6.7	44	
87	Thin film solid state sodium batteries for electric vehicles. <i>Electrochimica Acta</i> , 1995 , 40, 2205-2210	6.7	44	
86	Transport Properties of a High Molecular Weight Poly(propylene oxide)- LiCF3 SO 3 System. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2024-2028	3.9	43	
85	Structure and surface energy characteristics of a series of pseudo-perfluoroalkyl polysiloxanes. <i>Macromolecules</i> , 1989 , 22, 2951-2957	5.5	43	
84	All-Solid-State Batteries Using Rationally Designed Garnet Electrolyte Frameworks. <i>ACS Applied Energy Materials</i> , 2020 , 3, 170-175	6.1	43	
83	Electrochemical and structural characterization of titanium-substituted manganese oxides based on Na0.44MnO2. <i>Journal of Power Sources</i> , 2004 , 135, 240-248	8.9	41	
82	Electrode Materials with the Na0.44MnO2 Structure: Effect of Titanium Substitution on Physical and Electrochemical Properties. <i>Chemistry of Materials</i> , 2008 , 20, 3404-3411	9.6	39	

81	Influence of synthesis conditions on the surface passivation and electrochemical behavior of layered cathode materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19833-19840	13	38
80	FTIR and Raman Study of the Li[sub x]Ti[sub y]Mn[sub 1]]O[sub 2] (y=0, 0.11) Cathodes in Methylpropyl Pyrrolidinium Bis(fluoro-sulfonyl)imide, LiTFSI Electrolyte. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A120	3.9	38
79	Effect of Electrolyte Composition on the Performance of Sodium/Polymer Cells. <i>Journal of the Electrochemical Society</i> , 1997 , 144, L20-L22	3.9	38
78	Synthesis and characterization of a copper-substituted manganese oxide with the Na0.44MnO2 structure. <i>Journal of Power Sources</i> , 2002 , 112, 294-297	8.9	37
77	Influence of Substitution on the Structure and Electrochemistry of Layered Manganese Oxides. <i>Chemistry of Materials</i> , 2003 , 15, 4456-4463	9.6	36
76	Tuning complex transition metal hydroxide nanostructures as active catalysts for water oxidation by a laser-chemical route. <i>Nano Letters</i> , 2015 , 15, 2498-503	11.5	35
75	Thermally-driven mesopore formation and oxygen release in delithiated NCA cathode particles. Journal of Materials Chemistry A, 2019 , 7, 12593-12603	13	32
74	Layered Manganese Oxide Intergrowth Electrodes for Rechargeable Lithium Batteries. 2. Substitution with Al. <i>Chemistry of Materials</i> , 2005 , 17, 1044-1054	9.6	32
73	Thermally driven mesoscale chemomechanical interplay in Li0.5Ni0.6Mn0.2Co0.2O2 cathode materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23055-23061	13	32
72	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. <i>Chemistry of Materials</i> , 2017 , 29, 2141-2149	9.6	31
71	Oriented porous LLZO 3D structures obtained by freeze casting for battery applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20861-20870	13	30
70	Synthesis and electrochemistry of Li3MnO4: Mn in the +5 oxidation state. <i>Journal of Power Sources</i> , 2007 , 172, 189-197	8.9	30
69	Layered Manganese Oxide Intergrowth Electrodes for Rechargeable Lithium Batteries. 1. Substitution with Co or Ni. <i>Chemistry of Materials</i> , 2005 , 17, 1036-1043	9.6	28
68	Structural and Electrochemical Investigation of Li(Ni[sub 0.4]Co[sub 0.15]Al[sub 0.05]Mn[sub 0.4])O[sub 2] Cathode Material. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1317	3.9	27
67	Investigating the Intercalation Chemistry of Alkali Ions in Fluoride Perovskites. <i>Chemistry of Materials</i> , 2017 , 29, 1561-1568	9.6	26
66	Facile, ethylene glycol-promoted microwave-assisted solvothermal synthesis of high-performance LiCoPO4 as a high-voltage cathode material for lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 82984-829	9 ² 4 ⁷	26
65	The Impact of Aluminum and Iron Substitution on the Structure and Electrochemistry of Li(Ni[sub 0.4]Co[sub 0.2]M[sub y]Mn[sub 0.4])O[sub 2] Materials. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A1011	3.9	26
64	Hydrogen bonding from coordinated imidazole in ferric porphyrin complexes. Effect on the iron(III)/iron(II) reduction potential. <i>Inorganic Chemistry</i> , 1983 , 22, 851-852	5.1	26

63	Axial ligand substitution reactions of ruthenium(II) phthalocyanine. <i>Inorganic Chemistry</i> , 1981 , 20, 1683	-15687	26	
62	Synthesis and electrochemical characterization of M2Mn3O8 (M=Ca, Cu) compounds and derivatives. <i>Solid State Ionics</i> , 2006 , 177, 893-900	3.3	25	
61	Atomic Insights into the Enhanced Surface Stability in High Voltage Cathode Materials by Ultrathin Coating. <i>Advanced Functional Materials</i> , 2017 , 27, 1602873	15.6	24	
60	Unveiling the mechanisms of lithium dendrite suppression by cationic polymer film induced solidelectrolyte interphase modification. <i>Energy and Environmental Science</i> , 2020 , 13, 1832-1842	35.4	23	
59	Polyorganodisulfide electrodes for solid-state batteries and electrochromic devices. <i>Solid State Ionics</i> , 1993 , 60, 175-187	3.3	23	
58	Thermal stress-induced charge and structure heterogeneity in emerging cathode materials. <i>Materials Today</i> , 2020 , 35, 87-98	21.8	23	
57	Particle size-controllable microwave-assisted solvothermal synthesis of the high-voltage cathode material LiCoPO4 using water/ethylene glycol solvent blends. <i>Solid State Sciences</i> , 2017 , 65, 100-109	3.4	22	
56	Solid-state electrolyte considerations for electric vehicle batteries. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1647-1659	5.8	22	
55	Tailoring the surface properties of LiNi(0.4)Mn(0.4)Co(0.2)O2 by titanium substitution for improved high voltage cycling performance. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21778-81	3.6	22	
54	Hydrogen bonding in metalloporphyrin reactions. Reaction of (tetraphenylporphinato)iron(III) chloride and N-methylimidazole. <i>Inorganic Chemistry</i> , 1982 , 21, 3699-3705	5.1	22	
53	Scalable Freeze-Tape-Casting Fabrication and Pore Structure Analysis of 3D LLZO Solid-State Electrolytes. <i>ACS Applied Materials & Acs Applied & Acs Appli</i>	9.5	22	
52	In Situ Engineering of the Electrode-Electrolyte Interface for Stabilized Overlithiated Cathodes. <i>Advanced Materials</i> , 2017 , 29, 1604549	24	21	
51	Thermal analysis of a solid polymer electrolyte and a subsequent electrochemical investigation of a lithium polymer battery. <i>Solid State Ionics</i> , 2003 , 158, 177-186	3.3	21	
50	Enhanced lithium ion transport in garnet-type solid state electrolytes. <i>Journal of Electroceramics</i> , 2017 , 38, 168-175	1.5	20	
49	Effect of lithium borate addition on the physical and electrochemical properties of the lithium ion conductor Li3.4Si0.4P0.6O4. <i>Solid State Ionics</i> , 2013 , 231, 109-115	3.3	20	
48	The use of redox polymerization electrodes in lithium batteries with liquid electrolytes. <i>Journal of Applied Electrochemistry</i> , 1992 , 22, 307-309	2.6	20	
47	Three-Dimensionally Aligned Sulfur Electrodes by Directional Freeze Tape Casting. <i>Nano Letters</i> , 2019 , 19, 4731-4737	11.5	19	
46	Combustion synthesis of nanoparticulate LiMgxMn1 $\[mu]$ PO4 (x = 0, 0.1, 0.2) carbon composites. Journal of Materials Research, 2010 , 25, 1460-1468	2.5	19	

45	Electrochemical characterization of manganese oxide cathode materials based on Na0.4MnO2. Journal of Power Sources, 2004 , 129, 296-302	8.9	19
44	Reactions of matrix-isolated iron atoms with dinitrogen. <i>Inorganic Chemistry</i> , 1984 , 23, 4108-4110	5.1	19
43	Removal of Na+ and Ca2+ with Prussian blue analogue electrodes for brackish water desalination. <i>Desalination</i> , 2020 , 487, 114479	10.3	17
42	A study of layered lithium manganese oxide cathode materials. <i>Journal of Power Sources</i> , 2003 , 119-121, 145-149	8.9	17
41	Crystal Chemistry and Electrochemistry of LixMn1.5Ni0.5O4 Solid Solution Cathode Materials. <i>Chemistry of Materials</i> , 2017 , 29, 6818-6828	9.6	15
40	Effect of structure on the storage characteristics of manganese oxide electrode materials. <i>Journal of Power Sources</i> , 2007 , 165, 573-580	8.9	15
39	Experimental and Computational Investigation of Lepidocrocite Anodes for Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 4284-4291	9.6	15
38	Effect of Si(IV) substitution on electrochemical, magnetic and spectroscopic performance of nanosized LiMn2\(\mathbb{B}\)SixO4. Journal of Materials Chemistry A, 2013, 1, 10857	13	14
37	Effect of Carbon Coating on the Physicochemical and Electrochemical Properties of Fe2O3 Nanoparticles for Anode Application in High Performance Lithium Ion Batteries. <i>Inorganic Chemistry</i> , 2015 , 54, 5239-48	5.1	14
36	Structural and Chemical Evolution of Amorphous Nickel Iron Complex Hydroxide upon Lithiation/Delithiation. <i>Chemistry of Materials</i> , 2015 , 27, 1583-1589	9.6	13
35	Intermittent Contact Alternating Current Scanning Electrochemical Microscopy: A Method for Mapping Conductivities in Solid Li Ion Conducting Electrolyte Samples. <i>Frontiers in Energy Research</i> , 2016 , 4,	3.8	13
34	Characteristics of laminated electrochromic devices using polyorganodisulfide electrodes. <i>Solar Energy Materials and Solar Cells</i> , 1994 , 33, 91-105	6.4	12
33	Synthesis and characterization of metastable, 20 nm-sized Pna21-LiCoPO4 nanospheres. <i>Journal of Solid State Chemistry</i> , 2017 , 248, 9-17	3.3	11
32	Structural Degradation of Layered Cathode Materials in Lithium-Ion Batteries Induced by Ball Milling. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1964-A1971	3.9	11
31	High-voltage cathode materials for lithium-ion batteries: freeze-dried LiMn0.8Fe0.1M0.1PO4/C (M = Fe, Co, Ni, Cu) nanocomposites. <i>Inorganic Chemistry</i> , 2015 , 54, 2671-8	5.1	11
30	XAFS Investigations of LiNi0.45Mn0.45Co0.1 AlyO2Positive Electrode Materials. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1562-A1571	3.9	11
29	Effect of Liquid Electrolyte Soaking on the Interfacial Resistance of LiLaZrO for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Diterfaces</i> , 2020 , 12, 20605-20612	9.5	11
28	Battery Cathodes 2013 , 5-49		10

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27	Electrochemical Properties of Electrodes Derived from NaTi3O6OHI2H2O in Sodium and Lithium Cells. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A52-A59	3.9	9
26	Distinct Surface and Bulk Thermal Behaviors of LiNiMnCoO Cathode Materials as a Function of State of Charge. <i>ACS Applied Materials & State of Charge and State of Cha</i>	9.5	8
25	Tailoring Transition-Metal Hydroxides and Oxides by Photon-Induced Reactions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14272-14276	16.4	8
24	Characterization of electrode materials for lithium ion and sodium ion batteries using synchrotron radiation techniques. <i>Journal of Visualized Experiments</i> , 2013 , e50594	1.6	8
23	Investigation of layered intergrowth LixMyMn1JO2+z (M=Ni, Co, Al) compounds as positive electrodes for Li-ion batteries. <i>Solid State Ionics</i> , 2004 , 175, 225-228	3.3	8
22	Sulfur-Doped Aluminum-Substituted Manganese Oxide Spinels for Lithium-Ion Battery Applications. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1060	3.9	7
21	23Na-NMR studies of NaxCoO2 cathode materials. <i>Solid State Ionics</i> , 1996 , 86-88, 797-803	3.3	7
20	CoLi[(OH)O][(POOH)(PO)], a Lithium-Stabilized, Mixed-Valent Cobalt(II,III) Hydroxide Phosphate Framework. <i>Inorganic Chemistry</i> , 2017 , 56, 10950-10961	5.1	6
19	Electrochemical Characterization of Orthorhombic NaXMnO2 for Alkali Metal Polymer Batteries. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 393, 107		6
18	Characterization and Electrochemical Performance of Substituted LiNi0.4Co0.2-yAlyMn0.4O2 (0{less than or equal to}y{less than or equal to}0.2) Cathode Materials. <i>ECS Transactions</i> , 2007 , 11, 27-3:	3 ¹	5
17	TEM Studies of Carbon Coated LiFePO4 After Charge Discharge Cycling. ECS Transactions, 2006, 3, 29-3	61	4
16	Reactions of matrix isolated fron atoms with nitric oxide. <i>Inorganica Chimica Acta</i> , 1986 , 117, 151-155	2.7	4
15	Optimization of nonatitanate electrodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19917-19926	13	4
14	Long-term chemothermal stability of delithiated NCA in polymer solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27135-27147	13	4
13	The origin of impedance rise in Ni-Rich positive electrodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021 , 498, 229885	8.9	3
12	A Study of Model-Based Protective Fast-Charging and Associated Degradation in Commercial Smartphone Cells: Insights on Cathode Degradation as a Result of Lithium Depositions on the Anode. <i>Advanced Energy Materials</i> , 2021 , 11, 2003019	21.8	3
11	Direct synthesis and characterization of mixed-valent Li0.5LoPO4, a Li-deficient derivative of the Cmcm polymorph of LiCoPO4. <i>RSC Advances</i> , 2017 , 7, 28069-28081	3.7	2
10	Tailoring Transition-Metal Hydroxides and Oxides by Photon-Induced Reactions. <i>Angewandte Chemie</i> , 2016 , 128, 14484-14488	3.6	2

9	Aluminum Migration during Deposition of Li7La3Zr2O12 Thin Films on Aluminum Oxide Substrates. <i>ECS Transactions</i> , 2013 , 53, 1-4	1	2
8	Reaction of matrix-isolated iron atoms with carbon disulfide. <i>Inorganic Chemistry</i> , 1986 , 25, 2474-2476	5.1	2
7	A layered nonstoichiometric lepidocrocite-type sodium titanate anode material for sodium-ion batteries. <i>MRS Energy & Sustainability</i> , 2021 , 8, 88	2.2	2
6	Effects of the particle properties on electrochemical performance of nanocrystalline LiAl0.1Cu0.1Mn1.8O4 cathode materials prepared by ultrasonic spray pyrolysis. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 792, 1-7	4.1	1
5	Modification of the electrochemical activity of LiMn1.95Si0.05O4 spinel via addition of phases with different physico-chemical properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3216	13	1
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