Marca M Doeff

List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
152	Heterostructured Lepidocrocite Titanate-Carbon Nanosheets for Electrochemical Applications. *ACS Applied Nano Materials*, **2022**, 5, 678-690	5.6	1
151	The origin of impedance rise in Ni-Rich positive electrodes for lithium-ion batteries. *Journal of Power Sources*, **2021**, 498, 229885	8.9	3
150	A layered nonstoichiometric lepidocrocite-type sodium titanate anode material for sodium-ion batteries. *MRS Energy & Sustainability*, **2021**, 8, 88	2.2	2
149	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. *Advanced Energy Materials*, **2021**, 11, 2003019	21.8	3
148	Location-Dependent Cobalt Deposition in Smartphone Cells upon Long-Term Fast-Charging Visualized by Synchrotron X-ray Fluorescence. *Chemistry of Materials*, **2021**, 33, 6318-6328	9.6	
147	Removal of Na+ and Ca2+ with Prussian blue analogue electrodes for brackish water desalination. *Desalination*, **2020**, 487, 114479	10.3	17
146	Unveiling the mechanisms of lithium dendrite suppression by cationic polymer film induced solid□electrolyte interphase modification. *Energy and Environmental Science*, **2020**, 13, 1832-1842	35.4	23
145	Distinct Surface and Bulk Thermal Behaviors of LiNiMnCoO Cathode Materials as a Function of State of Charge. *ACS Applied Materials & Interfaces*, **2020**, 12, 11643-11656	9.5	8
144	Thermal stress-induced charge and structure heterogeneity in emerging cathode materials. *Materials Today*, **2020**, 35, 87-98	21.8	23
143	Scalable Freeze-Tape-Casting Fabrication and Pore Structure Analysis of 3D LLZO Solid-State Electrolytes. *ACS Applied Materials & Interfaces*, **2020**, 12, 3494-3501	9.5	22
142	All-Solid-State Batteries Using Rationally Designed Garnet Electrolyte Frameworks. *ACS Applied Energy Materials*, **2020**, 3, 170-175	6.1	43
141	Optimization of nonatitanate electrodes for sodium-ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 19917-19926	13	4
140	Effect of Liquid Electrolyte Soaking on the Interfacial Resistance of LiLaZrO for All-Solid-State Lithium Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 20605-20612	9.5	11
139	Structural Degradation of Layered Cathode Materials in Lithium-Ion Batteries Induced by Ball Milling. *Journal of the Electrochemical Society*, **2019**, 166, A1964-A1971	3.9	11
138	Three-Dimensionally Aligned Sulfur Electrodes by Directional Freeze Tape Casting. *Nano Letters*, **2019**, 19, 4731-4737	11.5	19
137	Thermally-driven mesopore formation and oxygen release in delithiated NCA cathode particles. *Journal of Materials Chemistry A*, **2019**, 7, 12593-12603	13	32
136	Solid-state electrolyte considerations for electric vehicle batteries. *Sustainable Energy and Fuels*, **2019**, 3, 1647-1659	5.8	22

135	Oriented porous LLZO 3D structures obtained by freeze casting for battery applications. *Journal of Materials Chemistry A*, **2019**, 7, 20861-20870	13	30
134	Long-term chemothermal stability of delithiated NCA in polymer solid-state batteries. *Journal of Materials Chemistry A*, **2019**, 7, 27135-27147	13	4
133	Mesoscale Chemomechanical Interplay of the LiNi0.8Co0.15Al0.05O2 Cathode in Solid-State Polymer Batteries. *Chemistry of Materials*, **2019**, 31, 491-501	9.6	62
132	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. *Nano Letters* , **2018**, 18, 3241-3249	11.5	163
131	Interface Instability of Fe-Stabilized LiLaZrO versus Li Metal. *Journal of Physical Chemistry C*, **2018**, 122, 3780-3785	3.8	55
130	Charge Heterogeneity and Surface Chemistry in Polycrystalline Cathode Materials. *Joule*, **2018**, 2, 464-477	27.8	107
129	Electrochemical Characteristics of Layered Transition Metal Oxide Cathode Materials for Lithium Ion Batteries: Surface, Bulk Behavior, and Thermal Properties. *Accounts of Chemical Research*, **2018**, 51, 89-96	24.3	128
128	Depth-Dependent Redox Behavior of LiNi0.6Mn0.2Co0.2O2. *Journal of the Electrochemical Society*, **2018**, 165, A696-A704	3.9	84
127	Propagation topography of redox phase transformations in heterogeneous layered oxide cathode materials. *Nature Communications*, **2018**, 9, 2810	17.4	45
126	Thermally driven mesoscale chemomechanical interplay in Li0.5Ni0.6Mn0.2Co0.2O2 cathode materials. *Journal of Materials Chemistry A*, **2018**, 6, 23055-23061	13	32
125	Garnet Electrolyte Surface Degradation and Recovery. *ACS Applied Energy Materials*, **2018**, 1, 7244-7252	6.1	50
124	Synthesis and characterization of metastable, 20 nm-sized Pna21-LiCoPO4 nanospheres. *Journal of Solid State Chemistry*, **2017**, 248, 9-17	3.3	11
123	Particle size-controllable microwave-assisted solvothermal synthesis of the high-voltage cathode material LiCoPO4 using water/ethylene glycol solvent blends. *Solid State Sciences*, **2017**, 65, 100-109	3.4	22
122	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. *Chemistry of Materials*, **2017**, 29, 2141-2149	9.6	31
121	Investigating the Intercalation Chemistry of Alkali Ions in Fluoride Perovskites. *Chemistry of Materials*, **2017**, 29, 1561-1568	9.6	26
120	A review of Ni-based layered oxides for rechargeable Li-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 874-901	13	303
119	Direct synthesis and characterization of mixed-valent Li0.5□CoPO4, a Li-deficient derivative of the Cmcm polymorph of LiCoPO4. *RSC Advances*, **2017**, 7, 28069-28081	3.7	2
118	Enhanced lithium ion transport in garnet-type solid state electrolytes. *Journal of Electroceramics*, **2017**, 38, 168-175	1.5	20

117	Effects of the particle properties on electrochemical performance of nanocrystalline LiAl0.1Cu0.1Mn1.8O4 cathode materials prepared by ultrasonic spray pyrolysis. *Journal of Electroanalytical Chemistry*, **2017**, 792, 1-7	4.1	1
116	Atomic Insights into the Enhanced Surface Stability in High Voltage Cathode Materials by Ultrathin Coating. *Advanced Functional Materials*, **2017**, 27, 1602873	15.6	24
115	In Situ Engineering of the Electrode-Electrolyte Interface for Stabilized Overlithiated Cathodes. *Advanced Materials*, **2017**, 29, 1604549	24	21
114	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. *Chemical Reviews*, **2017**, 117, 13123-13186	68.1	291
113	A spongy nickel-organic CO reduction photocatalyst for nearly 100% selective CO production. *Science Advances*, **2017**, 3, e1700921	14.3	124
112	Editorial for the JECR special issue on all solid-state batteries. *Journal of Electroceramics*, **2017**, 38, 125-127	1.3	
111	CoLi[(OH)O][(POOH)(PO)], a Lithium-Stabilized, Mixed-Valent Cobalt(II,III) Hydroxide Phosphate Framework. *Inorganic Chemistry*, **2017**, 56, 10950-10961	5.1	6
110	Crystal Chemistry and Electrochemistry of LixMn1.5Ni0.5O4 Solid Solution Cathode Materials. *Chemistry of Materials*, **2017**, 29, 6818-6828	9.6	15
109	Facile, ethylene glycol-promoted microwave-assisted solvothermal synthesis of high-performance LiCoPO4 as a high-voltage cathode material for lithium-ion batteries. *RSC Advances*, **2016**, 6, 82984-82994	3.7	26
108	Tailoring Transition-Metal Hydroxides and Oxides by Photon-Induced Reactions. *Angewandte Chemie*, **2016**, 128, 14484-14488	3.6	2
107	Tailoring Transition-Metal Hydroxides and Oxides by Photon-Induced Reactions. *Angewandte Chemie - International Edition*, **2016**, 55, 14272-14276	16.4	8
106	Metal segregation in hierarchically structured cathode materials for high-energy lithium batteries. *Nature Energy*, **2016**, 1,	62.3	179
105	Elucidation of the surface characteristics and electrochemistry of high-performance LiNiO2. *Chemical Communications*, **2016**, 52, 4239-42	5.8	50
104	Structural and Electrochemical Consequences of Al and Ga Cosubstitution in LiLaZrO Solid Electrolytes. *Chemistry of Materials*, **2016**, 28, 2384-2392	9.6	181
103	Intermittent Contact Alternating Current Scanning Electrochemical Microscopy: A Method for Mapping Conductivities in Solid Li Ion Conducting Electrolyte Samples. *Frontiers in Energy Research*, **2016**, 4,	3.8	13
102	Experimental and Computational Investigation of Lepidocrocite Anodes for Sodium-Ion Batteries. *Chemistry of Materials*, **2016**, 28, 4284-4291	9.6	15
101	Tuning complex transition metal hydroxide nanostructures as active catalysts for water oxidation by a laser-chemical route. *Nano Letters*, **2015**, 15, 2498-503	11.5	35
100	Three-dimensional elemental imaging of Li-ion solid-state electrolytes using fs-laser induced breakdown spectroscopy (LIBS). *Journal of Analytical Atomic Spectrometry*, **2015**, 30, 2295-2302	3.7	62

99	Interrelationships among Grain Size, Surface Composition, Air Stability, and Interfacial Resistance of Al-Substituted Li7La3Zr2O12 Solid Electrolytes. *ACS Applied Materials & Interfaces*, **2015**, 7, 17649-55	9.5	172
98	Tailoring the surface properties of LiNi(0.4)Mn(0.4)Co(0.2)O2 by titanium substitution for improved high voltage cycling performance. *Physical Chemistry Chemical Physics*, **2015**, 17, 21778-81	3.6	22
97	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+). *Inorganic Chemistry*, **2015**, 54, 10440-9	5.1	63
96	Sodiation Kinetics of Metal Oxide Conversion Electrodes: A Comparative Study with Lithiation. *Nano Letters*, **2015**, 15, 5755-63	11.5	100
95	Electrochemical Properties of Electrodes Derived from NaTi3O6OH□2H2O in Sodium and Lithium Cells. *Journal of the Electrochemical Society*, **2015**, 162, A52-A59	3.9	9
94	Effects of crystallinity and impurities on the electrical conductivity of Li□La2Zr□O thin films. *Thin Solid Films*, **2015**, 576, 55-60	2.2	47
93	Effect of Carbon Coating on the Physicochemical and Electrochemical Properties of Fe2O3 Nanoparticles for Anode Application in High Performance Lithium Ion Batteries. *Inorganic Chemistry* , **2015**, 54, 5239-48	5.1	14
92	High-voltage cathode materials for lithium-ion batteries: freeze-dried LiMn0.8Fe0.1M0.1PO4/C (M = Fe, Co, Ni, Cu) nanocomposites. *Inorganic Chemistry*, **2015**, 54, 2671-8	5.1	11
91	Effect of surface microstructure on electrochemical performance of garnet solid electrolytes. *ACS Applied Materials & Interfaces*, **2015**, 7, 2073-81	9.5	277
90	Structural and Chemical Evolution of Amorphous Nickel Iron Complex Hydroxide upon Lithiation/Delithiation. *Chemistry of Materials*, **2015**, 27, 1583-1589	9.6	13
89	Transitions from near-surface to interior redox upon lithiation in conversion electrode materials. *Nano Letters*, **2015**, 15, 1437-44	11.5	92
88	Chemical and structural stability of lithium-ion battery electrode materials under electron beam. *Scientific Reports*, **2014**, 4, 5694	4.9	86
87	Titanate Anodes for Sodium Ion Batteries. *Journal of Inorganic and Organometallic Polymers and Materials*, **2014**, 24, 5-14	3.2	64
86	Influence of synthesis conditions on the surface passivation and electrochemical behavior of layered cathode materials. *Journal of Materials Chemistry A*, **2014**, 2, 19833-19840	13	38
85	Computational and Experimental Investigation of Ti Substitution in Li1(NixMnxCo1-2x-yTiy)O2 for Lithium Ion Batteries. *Journal of Physical Chemistry Letters*, **2014**, 5, 3649-55	6.4	64
84	Modification of the electrochemical activity of LiMn1.95Si0.05O4 spinel via addition of phases with different physico-chemical properties. *Journal of Materials Chemistry A*, **2014**, 2, 3216	13	1
83	Effect of microstructure and surface impurity segregation on the electrical and electrochemical properties of dense Al-substituted Li7La3Zr2O12. *Journal of Materials Chemistry A*, **2014**, 2, 172-181	13	136
82	Profiling the nanoscale gradient in stoichiometric layered cathode particles for lithium-ion batteries. *Energy and Environmental Science*, **2014**, 7, 3077	35.4	133

81	The origin of high electrolyte-electrode interfacial resistances in lithium cells containing garnet type solid electrolytes. *Physical Chemistry Chemical Physics*, **2014**, 16, 18294-300	3.6	335
80	Lepidocrocite-type Layered Titanate Structures: New Lithium and Sodium Ion Intercalation Anode Materials. *Chemistry of Materials*, **2014**, 26, 2502-2512	9.6	56
79	Surface reconstruction and chemical evolution of stoichiometric layered cathode materials for lithium-ion batteries. *Nature Communications*, **2014**, 5, 3529	17.4	860
78	New materials based on a layered sodium titanate for dual electrochemical Na and Li intercalation systems. *Energy and Environmental Science*, **2013**, 6, 2538	35.4	163
77	Effect of Si(IV) substitution on electrochemical, magnetic and spectroscopic performance of nanosized LiMn2□SixO4. *Journal of Materials Chemistry A*, **2013**, 1, 10857	13	14
76	Effect of lithium borate addition on the physical and electrochemical properties of the lithium ion conductor Li3.4Si0.4P0.6O4. *Solid State Ionics*, **2013**, 231, 109-115	3.3	20
75	Battery Cathodes **2013**, 5-49		10
74	Aluminum Migration during Deposition of Li7La3Zr2O12 Thin Films on Aluminum Oxide Substrates. *ECS Transactions*, **2013**, 53, 1-4	1	2
73	Characterization of electrode materials for lithium ion and sodium ion batteries using synchrotron radiation techniques. *Journal of Visualized Experiments*, **2013**, e50594	1.6	8
72	Electrochemical and Physical Properties of Ti-Substituted Layered Nickel Manganese Cobalt Oxide (NMC) Cathode Materials. *Journal of the Electrochemical Society*, **2012**, 159, A1383-A1392	3.9	77
71	Structural Underpinnings of the Enhanced Cycling Stability upon Al-Substitution in LiNi0.45Mn0.45Co0.1□AlyO2 Positive Electrode Materials for Li-ion Batteries. *Chemistry of Materials*, **2012**, 24, 3307-3317	9.6	62
70	XAFS Investigations of LiNi0.45Mn0.45Co0.1□AlyO2Positive Electrode Materials. *Journal of the Electrochemical Society*, **2012**, 159, A1562-A1571	3.9	11
69	Spherical nanoporous LiCoPO4/C composites as high performance cathode materials for rechargeable lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 9984		87
68	Aliovalent titanium substitution in layered mixed Li Ni□Mn□Co oxides for lithium battery applications. *Journal of Materials Chemistry*, **2011**, 21, 9991		52
67	Nanoporous spherical LiFePO4 for high performance cathodes. *Energy and Environmental Science*, **2011**, 4, 885	35.4	137
66	Combustion synthesis of nanoparticulate LiMgxMn1□PO4 (x = 0, 0.1, 0.2) carbon composites. *Journal of Materials Research*, **2010**, 25, 1460-1468	2.5	19
65	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. *Journal of the Electrochemical Society*, **2010**, 157, A1317	3.9	27
64	Nanoscale LiFePO[sub 4] and Li[sub 4]Ti[sub 5]O[sub 12] for High Rate Li-Ion Batteries. *Journal of the Electrochemical Society*, **2009**, 156, A1041	3.9	77

63	Microwave Plasma Chemical Vapor Deposition of Carbon Coatings on LiNi1 □BCo1 □BMn1 □BO2 for Li-Ion Battery Composite Cathodes. *Journal of the Electrochemical Society*, **2009**, 156, A48	3.9	53
62	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. *Journal of the Electrochemical Society*, **2009**, 156, A120	3.9	38
61	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. *Journal of the Electrochemical Society*, **2009**, 156, A1011	3.9	26
60	Structure and Electrochemistry of LiNi[sub 1□]Co[sub 1□□]M[sub y]Mn[sub 1□]O[sub 2] (M=Ti, Al, Fe) Positive Electrode Materials. *Journal of the Electrochemical Society*, **2009**, 156, A192	3.9	66
59	Electrode Materials with the Na0.44MnO2 Structure: Effect of Titanium Substitution on Physical and Electrochemical Properties. *Chemistry of Materials*, **2008**, 20, 3404-3411	9.6	39
58	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. *Journal of the Electrochemical Society*, **2008**, 155, A172	3.9	57
57	TEM Study of Fracturing in Spherical and Plate-like LiFePO[sub 4] Particles. *Electrochemical and Solid-State Letters*, **2008**, 11, A25		119
56	Impact of carbon structure and morphology on the electrochemical performance of LiFePO4/C composites. *Journal of Solid State Electrochemistry*, **2008**, 12, 995-1001	2.6	78
55	Synthesis and electrochemistry of Li3MnO4: Mn in the +5 oxidation state. *Journal of Power Sources*, **2007**, 172, 189-197	8.9	30
54	Effect of structure on the storage characteristics of manganese oxide electrode materials. *Journal of Power Sources*, **2007**, 165, 573-580	8.9	15
53	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. *ECS Transactions*, **2007**, 11, 27-33	1	5
52	Factors Influencing the Quality of Carbon Coatings on LiFePO[sub 4]. *Journal of the Electrochemical Society*, **2007**, 154, A389	3.9	211
51	TEM Studies of Carbon Coated LiFePO4 After Charge Discharge Cycling. *ECS Transactions*, **2006**, 3, 29-36	1	4
50	Carbon Surface Layers on a High-Rate LiFePO[sub 4]. *Electrochemical and Solid-State Letters*, **2006**, 9, A360		82
49	Optimization of carbon coatings on LiFePO4. *Journal of Power Sources*, **2006**, 163, 180-184	8.9	193
48	Synthesis and electrochemical characterization of M2Mn3O8 (M=Ca, Cu) compounds and derivatives. *Solid State Ionics*, **2006**, 177, 893-900	3.3	25
47	Layered Manganese Oxide Intergrowth Electrodes for Rechargeable Lithium Batteries. 1. Substitution with Co or Ni. *Chemistry of Materials*, **2005**, 17, 1036-1043	9.6	28
46	Corrosion of Aluminum Current Collectors in Lithium-Ion Batteries with Electrolytes Containing LiPF[sub 6]. *Journal of the Electrochemical Society*, **2005**, 152, B448	3.9	59

45	Layered Manganese Oxide Intergrowth Electrodes for Rechargeable Lithium Batteries. 2. Substitution with Al. *Chemistry of Materials*, **2005**, 17, 1044-1054	9.6	32
44	Direct synthesis of LiNi1/3Co1/3Mn1/3O2 from nitrate precursors. *Electrochemistry Communications*, **2004**, 6, 767-772	5.1	93
43	Investigation of layered intergrowth LixMyMn1-yO2+z (M=Ni, Co, Al) compounds as positive electrodes for Li-ion batteries. *Solid State Ionics*, **2004**, 175, 225-228	3.3	8
42	Electrochemical characterization of manganese oxide cathode materials based on Na0.4MnO2. *Journal of Power Sources*, **2004**, 129, 296-302	8.9	19
41	Electrochemical and structural characterization of titanium-substituted manganese oxides based on Na0.44MnO2. *Journal of Power Sources*, **2004**, 135, 240-248	8.9	41
40	Electrochemical Performance of Sol-Gel Synthesized LiFePO[sub 4] in Lithium Batteries. *Journal of the Electrochemical Society*, **2004**, 151, A1279	3.9	225
39	Effect of Surface Carbon Structure on the Electrochemical Performance of LiFePO[sub 4]. *Electrochemical and Solid-State Letters*, **2003**, 6, A207		423
38	A study of layered lithium manganese oxide cathode materials. *Journal of Power Sources*, **2003**, 119-121, 145-149	8.9	17
37	Thermal analysis of a solid polymer electrolyte and a subsequent electrochemical investigation of a lithium polymer battery. *Solid State Ionics*, **2003**, 158, 177-186	3.3	21
36	Influence of Substitution on the Structure and Electrochemistry of Layered Manganese Oxides. *Chemistry of Materials*, **2003**, 15, 4456-4463	9.6	36
35	Sulfur-Doped Aluminum-Substituted Manganese Oxide Spinels for Lithium-Ion Battery Applications. *Journal of the Electrochemical Society*, **2003**, 150, A1060	3.9	7
34	Synthesis and characterization of a copper-substituted manganese oxide with the Na0.44MnO2 structure. *Journal of Power Sources*, **2002**, 112, 294-297	8.9	37
33	[sup 7]Li and [sup 31]P Magic Angle Spinning Nuclear Magnetic Resonance of LiFePO[sub 4]-Type Materials. *Electrochemical and Solid-State Letters*, **2002**, 5, A95		68
32	Hyperfine fields at the Li site in LiFePO(4)-type olivine materials for lithium rechargeable batteries: a (7)Li MAS NMR and SQUID study. *Journal of the American Chemical Society*, **2002**, 124, 3832-3	16.4	93
31	A High-Rate Manganese Oxide for Rechargeable Lithium Battery Applications. *Journal of the Electrochemical Society*, **2001**, 148, A230	3.9	60
30	Transport properties of binary salt polymer electrolytes. *Journal of Power Sources*, **2000**, 89, 227-231	8.9	55
29	Transport Properties of the Solid Polymer Electrolyte System P(EO)nLiTFSI. *Journal of Physical Chemistry B*, **2000**, 104, 3476-3480	3.4	109
28	Transport Properties of a High Molecular Weight Poly(propylene oxide)- LiCF3 SO 3 System. *Journal of the Electrochemical Society*, **1999**, 146, 2024-2028	3.9	43

27	Transport property measurements of polymer electrolytes. *Electrochimica Acta*, **1998**, 43, 1387-1393	6.7	44
26	Li ion conductors based on laponite/poly(ethylene oxide) composites. *Solid State Ionics*, **1998**, 113-115, 109-115	3.3	59
25	Transport Property and Raman Spectroscopic Studies of the Polymer Electrolyte System P (EO) n - NaTFSI. *Journal of the Electrochemical Society*, **1998**, 145, 1586-1592	3.9	55
24	Effect of Electrolyte Composition on the Performance of Sodium/Polymer Cells. *Journal of the Electrochemical Society*, **1997**, 144, L20-L22	3.9	38
23	Lithium Insertion Processes of Orthorhombic Na x MnO2-Based Electrode Materials. *Journal of the Electrochemical Society*, **1996**, 143, 2507-2516	3.9	98
22	23Na-NMR studies of NaxCoO2 cathode materials. *Solid State Ionics*, **1996**, 86-88, 797-803	3.3	7
21	The Measurement of a Complete Set of Transport Properties for a Concentrated Solid Polymer Electrolyte Solution. *Journal of the Electrochemical Society*, **1995**, 142, 1859-1868	3.9	199
20	Electrochemical Characterization of Orthorhombic NaXMnO2 for Alkali Metal Polymer Batteries. *Materials Research Society Symposia Proceedings*, **1995**, 393, 107		6
19	Thin film solid state sodium batteries for electric vehicles. *Electrochimica Acta*, **1995**, 40, 2205-2210	6.7	44
18	Characteristics of laminated electrochromic devices using polyorganodisulfide electrodes. *Solar Energy Materials and Solar Cells*, **1994**, 33, 91-105	6.4	12
17	Orthorhombic Na x MnO2 as a Cathode Material for Secondary Sodium and Lithium Polymer Batteries. *Journal of the Electrochemical Society*, **1994**, 141, L145-L147	3.9	155
16	Electrochemical Insertion of Sodium into Carbon. *Journal of the Electrochemical Society*, **1993**, 140, L169-L170	3.9	385
15	Rechargeable Na / Na x CoO2 and Na15Pb4 / Na x CoO2 Polymer Electrolyte Cells. *Journal of the Electrochemical Society*, **1993**, 140, 2726-2733	3.9	56
14	Polyorganodisulfide electrodes for solid-state batteries and electrochromic devices. *Solid State Ionics*, **1993**, 60, 175-187	3.3	23
13	Thin Film Rechargeable Room Temperature Batteries Using Solid Redox Polymerization Electrodes. *Journal of the Electrochemical Society*, **1992**, 139, 1808-1812	3.9	50
12	The Use of Polydisulfides and Copolymeric Disulfides in the Li/PEO/SRPE Battery System. *Journal of the Electrochemical Society*, **1992**, 139, 2077-2081	3.9	62
11	The use of redox polymerization electrodes in lithium batteries with liquid electrolytes. *Journal of Applied Electrochemistry*, **1992**, 22, 307-309	2.6	20
10	Structure and surface energy characteristics of a series of pseudo-perfluoroalkyl polysiloxanes. *Macromolecules*, **1989**, 22, 2951-2957	5.5	43

9	An electrochemical study of the substitution and decomposition reactions of (arene)tricarbonylchromium radical cations. *Journal of the American Chemical Society*, **1988**, 110, 2109-2116	16.4	51
8	Reactions of matrix isolated fron atoms with nitric oxide. *Inorganica Chimica Acta*, **1986**, 117, 151-155	2.7	4
7	Reaction of matrix-isolated iron atoms with carbon disulfide. *Inorganic Chemistry*, **1986**, 25, 2474-2476	5.1	2
6	Reactions of matrix-isolated iron atoms with dinitrogen. *Inorganic Chemistry*, **1984**, 23, 4108-4110	5.1	19
5	Hydrogen bonding from coordinated imidazole in ferric porphyrin complexes. Effect on the iron(III)/iron(II) reduction potential. *Inorganic Chemistry*, **1983**, 22, 851-852	5.1	26
4	Hydrogen bonding in metalloporphyrin reactions. Reaction of (tetraphenylporphinato)iron(III) chloride and N-methylimidazole. *Inorganic Chemistry*, **1982**, 21, 3699-3705	5.1	22
3	Axial ligand substitution reactions of ruthenium(II) phthalocyanine. *Inorganic Chemistry*, **1981**, 20, 1683-1687	5.1	26
2	Surface reconstruction and chemical evolution of stoichiometric layered cathode materials for lithium-ion batteries		1
1	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. *ACS Energy Letters*,1399-1404	20.1	78