

Nancy J Dudney

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144 papers	11,653 citations	55 h-index	107 g-index
156 ext. papers	13,077 ext. citations	8.9 avg, IF	6.55 L-index

#	Paper	IF	Citations
144	Thin-film lithium and lithium-ion batteries. <i>Solid State Ionics</i> , 2000 , 135, 33-45	3.3	838
143	Hierarchically Structured Sulfur/Carbon Nanocomposite Material for High-Energy Lithium Battery. <i>Chemistry of Materials</i> , 2009 , 21, 4724-4730	9.6	766
142	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. <i>Nature Energy</i> , 2019 , 4, 187-196	62.3	653
141	Anomalous high ionic conductivity of nanoporous Li_3PS_4 . <i>Journal of the American Chemical Society</i> , 2013 , 135, 975-8	16.4	537
140	Solid Electrolyte: the Key for High-Voltage Lithium Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1401408	108.8	419
139	Electrochemically-driven solid-state amorphization in lithium-silicon alloys and implications for lithium storage. <i>Acta Materialia</i> , 2003 , 51, 1103-1113	8.4	389
138	Phosphorous Pentasulfide as a Novel Additive for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 1064-1069	15.6	363
137	Elastic Properties of the Solid Electrolyte $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ (LLZO). <i>Chemistry of Materials</i> , 2016 , 28, 197-206	6	299
136	Lithium superionic sulfide cathode for all-solid lithium-sulfur batteries. <i>ACS Nano</i> , 2013 , 7, 2829-33	16.7	284
135	Interfacial Stability of Li Metal-Solid Electrolyte Elucidated via in Situ Electron Microscopy. <i>Nano Letters</i> , 2016 , 16, 7030-7036	11.5	239
134	Lithium polysulfidophosphates: a family of lithium-conducting sulfur-rich compounds for lithium-sulfur batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7460-3	16.4	233
133	Air-stable, high-conduction solid electrolytes of arsenic-substituted Li_4SnS_4 . <i>Energy and Environmental Science</i> , 2014 , 7, 1053-1058	35.4	228
132	Real space mapping of Li-ion transport in amorphous Si anodes with nanometer resolution. <i>Nano Letters</i> , 2010 , 10, 3420-5	11.5	215
131	Electrochemical and rate performance study of high-voltage lithium-rich composition: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$. <i>Journal of Power Sources</i> , 2012 , 199, 220-226	8.9	186
130	Electrochemically-driven solid-state amorphization in lithium-metal anodes. <i>Journal of Power Sources</i> , 2003 , 119-121, 604-609	8.9	161
129	Nanoscale imaging of fundamental li battery chemistry: solid-electrolyte interphase formation and preferential growth of lithium metal nanoclusters. <i>Nano Letters</i> , 2015 , 15, 2011-8	11.5	157
128	In situ ambient pressure X-ray photoelectron spectroscopy studies of lithium-oxygen redox reactions. <i>Scientific Reports</i> , 2012 , 2, 715	4.9	154

127	Lithium Diffusion in $\text{Li}_{0.45}\text{CoO}_2$ (0.45). <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, A74		152
126	Thermal stability and catalytic activity of gold nanoparticles supported on silica. <i>Journal of Catalysis</i> , 2009 , 262, 92-101	7.3	150
125	Direct visualization of initial SEI morphology and growth kinetics during lithium deposition by in situ electrochemical transmission electron microscopy. <i>Chemical Communications</i> , 2014 , 50, 2104-7	5.8	148
124	Ultrahigh-energy-density microbatteries enabled by new electrode architecture and micropackaging design. <i>Advanced Materials</i> , 2010 , 22, E139-44	24	135
123	Interface Limited Lithium Transport in Solid-State Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 298-303	6.4	129
122	Addition of a thin-film inorganic solid electrolyte (Lipon) as a protective film in lithium batteries with a liquid electrolyte. <i>Journal of Power Sources</i> , 2000 , 89, 176-179	8.9	128
121	Surface chemistry of metal oxide coated lithium manganese nickel oxide thin film cathodes studied by XPS. <i>Electrochimica Acta</i> , 2013 , 90, 135-147	6.7	122
120	Surface studies of high voltage lithium rich composition: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$. <i>Journal of Power Sources</i> , 2012 , 216, 179-186	8.9	122
119	Solid electrolyte coated high voltage layered lithium-rich composite cathode: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5587	13	121
118	Influence of Lithium Salts on the Discharge Chemistry of Li-Air Cells. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1242-7	6.4	117
117	Artificial solid electrolyte interphase to address the electrochemical degradation of silicon electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10083-8	9.5	115
116	Gold Nanoparticles Supported on Carbon Nitride: Influence of Surface Hydroxyls on Low Temperature Carbon Monoxide Oxidation. <i>ACS Catalysis</i> , 2012 , 2, 1138-1146	13.1	113
115	Electrochemical and Solid-State Lithiation of Graphitic C_3N_4 . <i>Chemistry of Materials</i> , 2013 , 25, 503-508	9.6	112
114	Thin Film Micro-Batteries. <i>Electrochemical Society Interface</i> , 2008 , 17, 44-48	3.6	112
113	Spectroscopic Characterization of Solid Discharge Products in Li-Air Cells with Aprotic Carbonate Electrolytes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14325-14333	3.8	110
112	Understanding the Degradation of Silicon Electrodes for Lithium-Ion Batteries Using Acoustic Emission. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1354	3.9	108
111	Mechanical characterization of LiPON films using nanoindentation. <i>Thin Solid Films</i> , 2011 , 520, 413-418	2.2	95
110	Decoupling electrochemical reaction and diffusion processes in ionically-conductive solids on the nanometer scale. <i>ACS Nano</i> , 2010 , 4, 7349-57	16.7	90

109	Materials science. Using all energy in a battery. <i>Science</i> , 2015 , 347, 131-2	33.3	88
108	Resolving the Grain Boundary and Lattice Impedance of Hot-Pressed Li ₇ La ₃ Zr ₂ O ₁₂ Garnet Electrolytes. <i>ChemElectroChem</i> , 2014 , 1, 375-378	4.3	85
107	Nanoparticles of gold on γ -Al ₂ O ₃ produced by dc magnetron sputtering. <i>Journal of Catalysis</i> , 2005 , 231, 151-158	7.3	83
106	Analysis of thin-film lithium batteries with cathodes of 50 nm to 4 μ m thick LiCoO ₂ . <i>Journal of Power Sources</i> , 2003 , 119-121, 300-304	8.9	81
105	High voltage stability of LiCoO ₂ particles with a nano-scale Lipon coating. <i>Electrochimica Acta</i> , 2011 , 56, 6573-6580	6.7	79
104	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2014 , 1, 1399-1404	14.4	78
103	Effect of interface modifications on voltage fade in 0.5Li ₂ MnO ₃ /0.5LiNi _{0.375} Mn _{0.375} Co _{0.25} O ₂ cathode materials. <i>Journal of Power Sources</i> , 2014 , 249, 509-514	8.9	74
102	Anomalous Discharge Product Distribution in Lithium-Air Cathodes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8401-8408	3.8	72
101	Resolving the Amorphous Structure of Lithium Phosphorus Oxynitride (Lipon). <i>Journal of the American Chemical Society</i> , 2018 , 140, 11029-11038	16.4	67
100	Direct visualization of solid electrolyte interphase formation in lithium-ion batteries with in situ electrochemical transmission electron microscopy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1029-37	0.5	67
99	An Artificial Solid Electrolyte Interphase Enables the Use of a LiNi _{0.5} Mn _{1.5} O ₄ 5 V Cathode with Conventional Electrolytes. <i>Advanced Energy Materials</i> , 2013 , 3, 1275-1278	21.8	66
98	Lithium Polysulfidophosphates: A Family of Lithium-Conducting Sulfur-Rich Compounds for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2013 , 125, 7608-7611	3.6	64
97	A high conductivity oxide-sulfide composite lithium superionic conductor. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4111-4116	13	63
96	Fabrication and characterization of LiMnNiO sputtered thin film high voltage cathodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2012 , 211, 108-118	8.9	62
95	Quantitative electrochemical measurements using in situ ec-S/TEM devices. <i>Microscopy and Microanalysis</i> , 2014 , 20, 452-61	0.5	62
94	Role of pH in the Formation of Structurally Stable and Catalytically Active TiO ₂ -Supported Gold Catalysts. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 269-280	3.8	62
93	Self-aligned Cu ₂ S core-shell nanowire array as a high-performance anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2012 , 198, 312-317	8.9	61
92	Lithium-Ion Batteries: Solid Electrolyte: the Key for High-Voltage Lithium Batteries (Adv. Energy Mater. 4/2015). <i>Advanced Energy Materials</i> , 2015 , 5,	21.8	61

91	Direct mapping of ionic transport in a Si anode on the nanoscale: time domain electrochemical strain spectroscopy study. <i>ACS Nano</i> , 2011 , 5, 9682-95	16.7	59
90	Magnetron sputtering of gold nanoparticles onto WO ₃ and activated carbon. <i>Catalysis Today</i> , 2007 , 122, 248-253	5.3	56
89	Facile and scalable fabrication of polymer-ceramic composite electrolyte with high ceramic loadings. <i>Journal of Power Sources</i> , 2018 , 390, 153-164	8.9	54
88	High-Voltage Cycling Behavior of Thin-Film LiCoO ₂ Cathodes. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A1442	3.9	54
87	Local electronic structure variation resulting in Li 'filament' formation within solid electrolytes. <i>Nature Materials</i> , 2021 , 20, 1485-1490	27	54
86	Influence of Hydrocarbon and CO ₂ on the Reversibility of LiO ₂ Chemistry Using In Situ Ambient Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25948-25954	3.8	53
85	Deposition and Confinement of Li Metal along an Artificial Lipon/Lipon Interface. <i>ACS Energy Letters</i> , 2019 , 4, 651-655	20.1	52
84	Design of composite polymer electrolytes for Li ion batteries based on mechanical stability criteria. <i>Journal of Power Sources</i> , 2012 , 201, 280-287	8.9	52
83	Current Collectors for Rechargeable Li-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A658	3.9	52
82	Pushing the theoretical limit of Li-CF(x) batteries: a tale of bifunctional electrolyte. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6874-7	16.4	51
81	A high-conduction Ge substituted Li ₃ AsS ₄ solid electrolyte with exceptional low activation energy. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10396-10403	13	51
80	Local detection of activation energy for ionic transport in lithium cobalt oxide. <i>Nano Letters</i> , 2012 , 12, 3399-403	11.5	50
79	Advanced Lithium Battery Cathodes Using Dispersed Carbon Fibers as the Current Collector. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1060	3.9	50
78	Characterization and Performance of LiFePO ₄ Thin-Film Cathodes Prepared with Radio-Frequency Magnetron-Sputter Deposition. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A805	3.9	50
77	Unravelling the Impact of Reaction Paths on Mechanical Degradation of Intercalation Cathodes for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13732-5	16.4	48
76	A three-dimensional interconnected polymer/ceramic composite as a thin film solid electrolyte. <i>Energy Storage Materials</i> , 2020 , 26, 242-249	19.4	46
75	A Perspective on Coatings to Stabilize High-Voltage Cathodes: LiMn _{1.5} Ni _{0.5} O ₄ with Sub-Nanometer Lipon Cycled with LiPF ₆ Electrolyte. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A3113-A3125	3.9	45
74	Evaluation of the electrochemical stability of graphite foams as current collectors for lead acid batteries. <i>Journal of Power Sources</i> , 2006 , 161, 1392-1399	8.9	45

73	Asymmetric Rate Behavior of Si Anodes for Lithium-Ion Batteries: Ultrafast De-Lithiation versus Sluggish Lithiation at High Current Densities. <i>Advanced Energy Materials</i> , 2015 , 5, 1401627	21.8	44
72	Degradation mechanisms of lithium-rich nickel manganese cobalt oxide cathode thin films. <i>RSC Advances</i> , 2014 , 4, 23364	3.7	39
71	Evolution of Phase Transformation Behavior in Li(Mn _{1.5} Ni _{0.5})O ₄ Cathodes Studied By In Situ XRD. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A890	3.9	39
70	Nanoindentation of high-purity vapor deposited lithium films: A mechanistic rationalization of diffusion-mediated flow. <i>Journal of Materials Research</i> , 2018 , 33, 1347-1360	2.5	39
69	Electrochemical Stability of Carbon Fibers Compared to Aluminum as Current Collectors for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1652-A1658	3.9	38
68	Determining and Minimizing Resistance for Ion Transport at the Polymer/Ceramic Electrolyte Interface. <i>ACS Energy Letters</i> , 2019 , 4, 1080-1085	20.1	37
67	Properties of lithium phosphorus oxynitride (Lipon) for 3D solid-state lithium batteries. <i>Journal of Materials Research</i> , 2010 , 25, 1507-1515	2.5	35
66	In situ atomic force microscopy studies on lithium (de)intercalation-induced morphology changes in LiCoO ₂ micro-machined thin film electrodes. <i>Journal of Power Sources</i> , 2013 , 222, 417-425	8.9	34
65	Nanoindentation of high-purity vapor deposited lithium films: A mechanistic rationalization of the transition from diffusion to dislocation-mediated flow. <i>Journal of Materials Research</i> , 2018 , 33, 1361-1368	2.5	34
64	Mesoscopic Framework Enables Facile Ionic Transport in Solid Electrolytes for Li Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600053	21.8	33
63	Electrode architectures for high capacity multivalent conversion compounds: iron (II and III) fluoride. <i>RSC Advances</i> , 2014 , 4, 6730	3.7	32
62	Analysis of composite electrolytes with sintered reinforcement structure for energy storage applications. <i>Journal of Power Sources</i> , 2013 , 241, 178-185	8.9	30
61	Influence of Support Hydroxides on the Catalytic Activity of Oxidized Gold Clusters. <i>ChemCatChem</i> , 2010 , 2, 281-286	5.2	30
60	Electrochemical and electron microscopic characterization of thin-film LiCoO ₂ cathodes under high-voltage cycling conditions. <i>Journal of Power Sources</i> , 2003 , 119-121, 295-299	8.9	29
59	Enhanced Ionic Conduction in AgCl-Al ₂ O ₃ Composites Induced by Plastic Deformation. <i>Journal of the American Ceramic Society</i> , 1987 , 70, 65-68	3.8	29
58	Intrinsic Surface Stability in LiMn _{2-2x} Ni _x O ₄ (x = 0.45, 0.5) High Voltage Spinel Materials for Lithium Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, A72		27
57	Nanoindentation of high-purity vapor deposited lithium films: The elastic modulus. <i>Journal of Materials Research</i> , 2018 , 33, 1335-1346	2.5	27
56	Formation of Iron Oxyfluoride Phase on the Surface of Nano-Fe ₃ O ₄ Conversion Compound for Electrochemical Energy Storage. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3798-3805	6.4	26

55	Thermophysical properties of LiFePO ₄ cathodes with carbonized pitch coatings and organic binders: Experiments and first-principles modeling. <i>Journal of Power Sources</i> , 2014 , 251, 8-13	8.9	26
54	The possibility of forming a sacrificial anode coating for Mg. <i>Corrosion Science</i> , 2014 , 87, 11-14	6.8	25
53	Evidence for the Formation of Nitrogen-Rich Platinum and Palladium Nitride Nanoparticles. <i>Chemistry of Materials</i> , 2013 , 25, 4936-4945	9.6	25
52	Study of segmental dynamics and ion transport in polymer/ceramic composite electrolytes by quasi-elastic neutron scattering. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 379-385	4.6	24
51	Modeling of all-solid-state thin-film Li-ion batteries: Accuracy improvement. <i>Solid State Ionics</i> , 2019 , 334, 111-116	3.3	23
50	Probing battery chemistry with liquid cell electron energy loss spectroscopy. <i>Chemical Communications</i> , 2015 , 51, 16377-80	5.8	23
49	Gas evolution from cathode materials: A pathway to solvent decomposition concomitant to SEI formation. <i>Journal of Power Sources</i> , 2013 , 239, 341-346	8.9	23
48	Structure of Spontaneously Formed Solid-Electrolyte Interphase on Lithiated Graphite Determined Using Small-Angle Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9816-9823	3.8	21
47	On the mechanisms of stress relaxation and intensification at the lithium/solid-state electrolyte interface. <i>Journal of Materials Research</i> , 2019 , 34, 3593-3616	2.5	20
46	Practical Considerations for Testing Polymer Electrolytes for High-Energy Solid-State Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 2240-2247	20.1	18
45	Deposition and Characterization of Li ₂ O/Bi ₂ O ₃ /P ₂ O ₅ Thin Films. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 929-943	3.8	17
44	Operando NMR and XRD study of chemically synthesized LiC _x oxidation in a dry room environment. <i>Journal of Power Sources</i> , 2015 , 287, 253-260	8.9	16
43	Mixed Polyanion Glass Cathodes: Iron Phosphate Vanadate Glasses. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A2210-A2215	3.9	15
42	Vacuum-tight sample transfer stage for a scanning electron microscopic study of stabilized lithium metal particles. <i>Journal of Materials Science</i> , 2012 , 47, 1572-1577	4.3	15
41	In situ stress measurements during electrochemical cycling of lithium-rich cathodes. <i>Journal of Power Sources</i> , 2017 , 364, 383-391	8.9	15
40	Handbook of Solid State Batteries. <i>Materials and Energy</i> , 2015 ,		14
39	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via Electron Microscopy. <i>Nano Letters</i> , 2021 , 21, 151-157	11.5	14
38	Lithium Transport in an Amorphous Li _x Si Anode Investigated by Quasi-elastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11083-11088	3.8	13

37	Polymer/Ceramic Composite Electrolytes for Lithium Batteries: A Comparison between the Single-Ion-Conducting Polymer Matrix and Its Counterpart. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8871-8881	6.1	13
36	Dry Synthesis of Lithium Intercalated Graphite Powder and Fiber. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A614-A619	3.9	12
35	Evolution of the lithium morphology from cycling of thin film solid state batteries. <i>Journal of Electroceramics</i> , 2017 , 38, 222-229	1.5	10
34	Effective conductivity of particulate polymer composite electrolytes using random resistor network method. <i>Solid State Ionics</i> , 2011 , 199-200, 44-53	3.3	10
33	Approaches toward lithium metal stabilization. <i>MRS Bulletin</i> , 2018 , 43, 752-758	3.2	10
32	Understanding How Structure and Crystallinity Affect Performance in Solid-State Batteries Using a Glass Ceramic LiV3O8 Cathode. <i>Chemistry of Materials</i> , 2019 , 31, 6135-6144	9.6	9
31	Graphite Foams for Lithium-Ion Battery Current Collectors. <i>ECS Transactions</i> , 2006 , 3, 23-28	1	9
30	A detector for neutron imaging. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 1016-1019	1.7	8
29	Multifunctional approaches for safe structural batteries. <i>Journal of Energy Storage</i> , 2021 , 40, 102747	7.8	8
28	The use of Magnetron Sputtering for the Production of Heterogeneous Catalysts. <i>Studies in Surface Science and Catalysis</i> , 2006 , 71-78	1.8	7
27	Electroanalytical Measurement of Interphase Formation at a Li Metal/Solid Electrolyte Interface. <i>ACS Energy Letters</i> , 2020 , 5, 3860-3867	20.1	7
26	Lithium Vanadium Oxide (Li1.1V3O8) Coated with Amorphous Lithium Phosphorous Oxynitride (LiPON): Role of Material Morphology and Interfacial Structure on Resulting Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1503-A1513	3.9	6
25	Thin Film Rechargeable Lithium Batteries for Implantable Devices. <i>ASAIO Journal</i> , 1997 , 43, M647	3.6	6
24	Preparation of Bi Nanowires from the Reaction between Ammonia and Bi1.7V8O16. <i>Chemistry of Materials</i> , 2004 , 16, 3348-3351	9.6	6
23	Plasma Synthesis of Spherical Crystalline and Amorphous Electrolyte Nanopowders for Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11570-11578	9.5	4
22	Multifunctional Utilization of Pitch-Coated Carbon Fibers in Lithium-Based Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100135	21.8	4
21	Study of the Segmental Dynamics and Ion Transport of Solid Polymer Electrolytes in the Semi-crystalline State. <i>Frontiers in Chemistry</i> , 2020 , 8, 592604	5	4
20	Gel composite electrolyte: An effective way to utilize ceramic fillers in lithium batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6555-6566	13	4

19	Resistance to fracture in the glassy solid electrolyte Lipon. <i>Journal of Materials Research</i> , 2021 , 36, 787-796	4
18	Cathode Materials: Phosphorous Pentasulfide as a Novel Additive for High-Performance Lithium-Sulfur Batteries (Adv. Funct. Mater. 8/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 918-918	15.6 3
17	Understanding Catalyst Stability through Aberration-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1408-1409	0.5 3
16	Thin Film Batteries for Energy Harvesting 2009 , 355-363	3
15	Hydration of Sodium and γ -Aluminas. <i>Journal of the American Ceramic Society</i> , 1987 , 70, 816-821	3.8 3
14	Effects of Plasticizer Content and Ceramic Addition on Electrochemical Properties of Cross-Linked Polymer Electrolyte. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 050549	3.9 3
13	Comparing the Purity of Rolled versus Evaporated Lithium Metal Films Using X-ray Microtomography. <i>ACS Energy Letters</i> , 2022 , 7, 1120-1124	20.1 3
12	In situ Electrochemical TEM for Quantitative Nanoscale Imaging Dynamics of Solid Electrolyte Interphase and Lithium Electrodeposition. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2437-2438	0.5 2
11	Mesoporous Carbon Materials as Electrodes for Electrochemical Double-Layer Capacitor. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 973, 1	2
10	Challenges for and Pathways Toward Solid-State Batteries 2020 ,	2
9	Exploiting the Oxygen Redox Reaction and Crystal-Preferred Orientation in a P3-Type Na ₂ /3Mg ₁ /3Mn ₂ /3O ₂ Thin-Film Electrode. <i>Energy & Fuels</i> , 2020 , 34, 7692-7699	4.1 1
8	Tuning Electrodeposition Parameters for Tailored Nanoparticle Size, Shape, and Morphology: An In Situ ec-STEM Investigation. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1506-1507	0.5 1
7	Preparation of thin-film neutron converter foils for imaging detectors. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 1034-1038	1.7 1
6	Magnetron Sputtering to Prepare Supported Metal Catalysts 2008 , 347-353	1
5	Ion Transport in Batteries with Polymer Electrolytes1-19	1
4	A Hidden Mesoscopic Feature Revealed By Electron Microscopy Could Facilitate Ion Transport In Solid Electrolytes. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1308-1309	0.5
3	In operando Transmission Electron Microscopy Imaging of SEI Formation and Structure in Li-Ion and Li-Metal Batteries. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1538-1539	0.5
2	Integrating Novel Microscopy into Battery Research: From Atomic Resolution to In Situ and Functional Imaging. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1998-1999	0.5

- 1 In situ Nanoscale Imaging and Spectroscopy of Energy Storage Materials. *Microscopy and Microanalysis*, **2017**, 23, 1964-1965

0.5