

Nancy J Dudney

List of Publications by Year in descending order

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147
papers

14,852
citations

19657

61
h-index

18647

119
g-index

156
all docs

156
docs citations

156
times ranked

12913
citing authors

#	ARTICLE	IF	CITATIONS
1	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. Nature Energy, 2019, 4, 187-196.	39.5	1,099
2	Thin-film lithium and lithium-ion batteries. Solid State Ionics, 2000, 135, 33-45.	2.7	987
3	Hierarchically Structured Sulfur/Carbon Nanocomposite Material for High-Energy Lithium Battery. Chemistry of Materials, 2009, 21, 4724-4730.	6.7	815
4	Anomalous High Ionic Conductivity of Nanoporous Li_3PS_4 . Journal of the American Chemical Society, 2013, 135, 975-978.	13.7	709
5	Solid Electrolyte: the Key for High-Voltage Lithium Batteries. Advanced Energy Materials, 2015, 5, 1401408.	19.5	544
6	Elastic Properties of the Solid Electrolyte $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ (LLZO). Chemistry of Materials, 2016, 28, 197-206.	6.7	445
7	Electrochemically-driven solid-state amorphization in lithium-silicon alloys and implications for lithium storage. Acta Materialia, 2003, 51, 1103-1113.	7.9	440
8	Phosphorous Pentasulfide as a Novel Additive for High-Performance Lithium-Sulfur Batteries. Advanced Functional Materials, 2013, 23, 1064-1069.	14.9	397
9	Lithium Superionic Sulfide Cathode for All-Solid Lithium-Sulfur Batteries. ACS Nano, 2013, 7, 2829-2833.	14.6	333
10	Air-stable, high-conduction solid electrolytes of arsenic-substituted Li_4SnS_4 . Energy and Environmental Science, 2014, 7, 1053-1058.	30.8	326
11	Interfacial Stability of Li Metal-Solid Electrolyte Elucidated via in Situ Electron Microscopy. Nano Letters, 2016, 16, 7030-7036.	9.1	309
12	Lithium Polysulfidophosphates: A Family of Lithium-Conducting Sulfur-Rich Compounds for Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2013, 52, 7460-7463.	13.8	263
13	Real Space Mapping of Li-Ion Transport in Amorphous Si Anodes with Nanometer Resolution. Nano Letters, 2010, 10, 3420-3425.	9.1	232
14	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. ACS Energy Letters, 0, , 1399-1404.	17.4	228
15	Local electronic structure variation resulting in Li filament formation within solid electrolytes. Nature Materials, 2021, 20, 1485-1490.	27.5	226
16	Electrochemical and rate performance study of high-voltage lithium-rich composition: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$. Journal of Power Sources, 2012, 199, 220-226.	7.8	210
17	Nanoscale Imaging of Fundamental Li Battery Chemistry: Solid-Electrolyte Interphase Formation and Preferential Growth of Lithium Metal Nanoclusters. Nano Letters, 2015, 15, 2011-2018.	9.1	185
18	In Situ Ambient Pressure X-ray Photoelectron Spectroscopy Studies of Lithium-Oxygen Redox Reactions. Scientific Reports, 2012, 2, 715.	3.3	180

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19	Electrochemically-driven solid-state amorphization in lithium-metal anodes. Journal of Power Sources, 2003, 119-121, 604-609.	7.8	177
20	Direct visualization of initial SEI morphology and growth kinetics during lithium deposition by in situ electrochemical transmission electron microscopy. Chemical Communications, 2014, 50, 2104.	4.1	172
21	Thermal stability and catalytic activity of gold nanoparticles supported on silica. Journal of Catalysis, 2009, 262, 92-101.	6.2	170
22	Lithium Diffusion in $\text{Li}_{\text{x}}\text{CoO}_2$ (0.45 $\leq x \leq 0.7$) Intercalation Cathodes. Electrochemical and Solid-State Letters, 2001, 4, A74.	2.2	159
23	Ultrahigh-Energy-Density Microbatteries Enabled by New Electrode Architecture and Micropackaging Design. Advanced Materials, 2010, 22, E139-44.	21.0	156
24	Interface Limited Lithium Transport in Solid-State Batteries. Journal of Physical Chemistry Letters, 2014, 5, 298-303.	4.6	148
25	Addition of a thin-film inorganic solid electrolyte (Lipon) as a protective film in lithium batteries with a liquid electrolyte. Journal of Power Sources, 2000, 89, 176-179.	7.8	142
26	Electrochemical and Solid-State Lithiation of Graphitic C_{3N_4} . Chemistry of Materials, 2013, 25, 503-508.	6.7	141
27	Artificial Solid Electrolyte Interphase To Address the Electrochemical Degradation of Silicon Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 10083-10088.	8.0	141
28	Surface chemistry of metal oxide coated lithium manganese nickel oxide thin film cathodes studied by XPS. Electrochimica Acta, 2013, 90, 135-147.	5.2	140
29	Solid electrolyte coated high voltage layered-layered lithium-rich composite cathode: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$. Journal of Materials Chemistry A, 2013, 1, 5587.	10.3	137
30	Thin Film Micro-Batteries. Electrochemical Society Interface, 2008, 17, 44-48.	0.4	134
31	Surface studies of high voltage lithium rich composition: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$. Journal of Power Sources, 2012, 216, 179-186.	7.8	131
32	Gold Nanoparticles Supported on Carbon Nitride: Influence of Surface Hydroxyls on Low Temperature Carbon Monoxide Oxidation. ACS Catalysis, 2012, 2, 1138-1146.	11.2	127
33	Influence of Lithium Salts on the Discharge Chemistry of Li -Air Cells. Journal of Physical Chemistry Letters, 2012, 3, 1242-1247.	4.6	123
34	Understanding the Degradation of Silicon Electrodes for Lithium-Ion Batteries Using Acoustic Emission. Journal of the Electrochemical Society, 2010, 157, A1354.	2.9	122
35	Mechanical characterization of LiPON films using nanoindentation. Thin Solid Films, 2011, 520, 413-418.	1.8	122
36	Spectroscopic Characterization of Solid Discharge Products in Li -Air Cells with Aprotic Carbonate Electrolytes. Journal of Physical Chemistry C, 2011, 115, 14325-14333.	3.1	114

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37	Resolving the Grain Boundary and Lattice Impedance of Hot-Pressed $\text{Li}_{0.7}\text{La}_{0.3}\text{Zr}_{0.2}\text{O}_{12}$ Garnet Electrolytes. <i>ChemElectroChem</i> , 2014, 1, 375-378.	3.4	112
38	Using all energy in a battery. <i>Science</i> , 2015, 347, 131-132.	12.6	99
39	Resolving the Amorphous Structure of Lithium Phosphorus Oxynitride (Lipon). <i>Journal of the American Chemical Society</i> , 2018, 140, 11029-11038.	13.7	99
40	Analysis of thin-film lithium batteries with cathodes of 50 nm to 4 μm thick LiCoO_2 . <i>Journal of Power Sources</i> , 2003, 119-121, 300-304.	7.8	97
41	Decoupling Electrochemical Reaction and Diffusion Processes in Ionically-Conductive Solids on the Nanometer Scale. <i>ACS Nano</i> , 2010, 4, 7349-7357.	14.6	96
42	Nanoparticles of gold on $\gamma\text{-Al}_2\text{O}_3$ produced by dc magnetron sputtering. <i>Journal of Catalysis</i> , 2005, 231, 151-158.	6.2	95
43	High voltage stability of LiCoO_2 particles with a nano-scale Lipon coating. <i>Electrochimica Acta</i> , 2011, 56, 6573-6580.	5.2	91
44	Effect of interface modifications on voltage fade in $0.5\text{Li}_2\text{MnO}_3\text{-}0.5\text{LiNi}_{0.375}\text{Mn}_{0.375}\text{Co}_{0.25}\text{O}_2$ cathode materials. <i>Journal of Power Sources</i> , 2014, 249, 509-514.	7.8	89
45	Deposition and Confinement of Li Metal along an Artificial Lipon-Lipon Interface. <i>ACS Energy Letters</i> , 2019, 4, 651-655.	17.4	87
46	Direct Visualization of Solid Electrolyte Interphase Formation in Lithium-Ion Batteries with <i>In Situ</i> Electrochemical Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 1029-1037.	0.4	83
47	Lithium-Ion Batteries: Solid Electrolyte: the Key for High-Voltage Lithium Batteries (<i>Adv. Energy Mater.</i>)	19.5	82
48	Quantitative Electrochemical Measurements Using <i>In Situ</i> $\text{e}^-/\text{S}/\text{TEM}$ Devices. <i>Microscopy and Microanalysis</i> , 2014, 20, 452-461.	0.4	80
49	Anomalous Discharge Product Distribution in Lithium-Air Cathodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8401-8408.	3.1	79
50	A high conductivity oxide-sulfide composite lithium superionic conductor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4111-4116.	10.3	77
51	An Artificial Solid Electrolyte Interphase Enables the Use of a $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ 5 V Cathode with Conventional Electrolytes. <i>Advanced Energy Materials</i> , 2013, 3, 1275-1278.	19.5	75
52	Fabrication and characterization of Li-Mn-Ni-O sputtered thin film high voltage cathodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2012, 211, 108-118.	7.8	71
53	Pushing the Theoretical Limit of Li-CFx Batteries: A Tale of Bifunctional Electrolyte. <i>Journal of the American Chemical Society</i> , 2014, 136, 6874-6877.	13.7	70
54	A three-dimensional interconnected polymer/ceramic composite as a thin film solid electrolyte. <i>Energy Storage Materials</i> , 2020, 26, 242-249.	18.0	70

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55	Magnetron sputtering of gold nanoparticles onto WO ₃ and activated carbon. <i>Catalysis Today</i> , 2007, 122, 248-253.	4.4	68
56	Facile and scalable fabrication of polymer-ceramic composite electrolyte with high ceramic loadings. <i>Journal of Power Sources</i> , 2018, 390, 153-164.	7.8	68
57	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.	3.1	67
58	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.	10.3	67
59	Self-aligned Cu@Si core-shell nanowire array as a high-performance anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2012, 198, 312-317.	7.8	65
60	Design of composite polymer electrolytes for Li ion batteries based on mechanical stability criteria. <i>Journal of Power Sources</i> , 2012, 201, 280-287.	7.8	64
61	Direct Mapping of Ionic Transport in a Si Anode on the Nanoscale: Time Domain Electrochemical Strain Spectroscopy Study. <i>ACS Nano</i> , 2011, 5, 9682-9695.	14.6	61
62	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, 13732-13735.	13.7	61
63	High-Voltage Cycling Behavior of Thin-Film LiCoO ₂ Cathodes. <i>Journal of the Electrochemical Society</i> , 2002, 149, A1442.	2.9	59
64	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.	2.9	59
65	Advanced Lithium Battery Cathodes Using Dispersed Carbon Fibers as the Current Collector. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1060.	2.9	59
66	Influence of Hydrocarbon and CO ₂ on the Reversibility of Li@O ₂ Chemistry Using <i>In Situ</i> Ambient Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25948-25954.	3.1	59
67	Local Detection of Activation Energy for Ionic Transport in Lithium Cobalt Oxide. <i>Nano Letters</i> , 2012, 12, 3399-3403.	9.1	58
68	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.	7.8	56
69	Current Collectors for Rechargeable Li-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 158, A658-A663.	2.9	56
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.	2.6	55
71	Determining and Minimizing Resistance for Ion Transport at the Polymer/Ceramic Electrolyte Interface. <i>ACS Energy Letters</i> , 2019, 4, 1080-1085.	17.4	52
72	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.	2.9	51

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73	Asymmetric Rate Behavior of Si Anodes for Lithium-Ion Batteries: Ultrafast De-Lithiation versus Sluggish Lithiation at High Current Densities. Advanced Energy Materials, 2015, 5, 1401627.	19.5	50
74	Electrochemical Stability of Carbon Fibers Compared to Aluminum as Current Collectors for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2012, 159, A1652-A1658.	2.9	48
75	Mesoscopic Framework Enables Facile Ionic Transport in Solid Electrolytes for Li Batteries. Advanced Energy Materials, 2016, 6, 1600053.	19.5	46
76	Evolution of Phase Transformation Behavior in Li(Mn _{1.5} Ni _{0.5})O ₄ Cathodes Studied By In Situ XRD. Journal of the Electrochemical Society, 2011, 158, A890.	2.9	45
77	Degradation mechanisms of lithium-rich nickel manganese cobalt oxide cathode thin films. RSC Advances, 2014, 4, 23364.	3.6	45
78	Nanoindentation of high-purity vapor deposited lithium films: A mechanistic rationalization of the transition from diffusion to dislocation-mediated flow. Journal of Materials Research, 2018, 33, 1361-1368.	2.6	44
79	Enhanced Ionic Conduction in AgCl-Al ₂ O ₃ Composites Induced by Plastic Deformation. Journal of the American Ceramic Society, 1987, 70, 65-68.	3.8	40
80	In situ atomic force microscopy studies on lithium (de)intercalation-induced morphology changes in Li CoO ₂ micro-machined thin film electrodes. Journal of Power Sources, 2013, 222, 417-425.	7.8	40
81	Practical Considerations for Testing Polymer Electrolytes for High-Energy Solid-State Batteries. ACS Energy Letters, 2021, 6, 2240-2247.	17.4	40
82	Properties of lithium phosphorus oxynitride (Lipon) for 3D solid-state lithium batteries. Journal of Materials Research, 2010, 25, 1507-1515.	2.6	39
83	Electrode architectures for high capacity multivalent conversion compounds: iron (ii and iii) fluoride. RSC Advances, 2014, 4, 6730.	3.6	39
84	Modeling of all-solid-state thin-film Li-ion batteries: Accuracy improvement. Solid State Ionics, 2019, 334, 111-116.	2.7	39
85	Nanoindentation of high-purity vapor deposited lithium films: The elastic modulus. Journal of Materials Research, 2018, 33, 1335-1346.	2.6	38
86	Analysis of composite electrolytes with sintered reinforcement structure for energy storage applications. Journal of Power Sources, 2013, 241, 178-185.	7.8	37
87	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via <i>In Situ</i> Electron Microscopy. Nano Letters, 2021, 21, 151-157.	9.1	36
88	The possibility of forming a sacrificial anode coating for Mg. Corrosion Science, 2014, 87, 11-14.	6.6	35
89	Gas evolution from cathode materials: A pathway to solvent decomposition concomitant to SEI formation. Journal of Power Sources, 2013, 239, 341-346.	7.8	34
90	Evidence for the Formation of Nitrogen-Rich Platinum and Palladium Nitride Nanoparticles. Chemistry of Materials, 2013, 25, 4936-4945.	6.7	33

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91	Multifunctional approaches for safe structural batteries. Journal of Energy Storage, 2021, 40, 102747.	8.1	33
92	Influence of Support Hydroxides on the Catalytic Activity of Oxidized Gold Clusters. ChemCatChem, 2010, 2, 281-286.	3.7	32
93	Study of segmental dynamics and ion transport in polymer-ceramic composite electrolytes by quasi-elastic neutron scattering. Molecular Systems Design and Engineering, 2019, 4, 379-385.	3.4	31
94	Electrochemical and electron microscopic characterization of thin-film LiCoO ₂ cathodes under high-voltage cycling conditions. Journal of Power Sources, 2003, 119-121, 295-299.	7.8	30
95	Intrinsic Surface Stability in LiMn ₂ -xNi _x O ₄ (x = 0.45, 0.5) High Voltage Spinel Materials for Lithium Ion Batteries. Electrochemical and Solid-State Letters, 2012, 15, A72.	2.2	30
96	Thermophysical properties of LiFePO ₄ cathodes with carbonized pitch coatings and organic binders: Experiments and first-principles modeling. Journal of Power Sources, 2014, 251, 8-13.	7.8	30
97	On the mechanisms of stress relaxation and intensification at the lithium/solid-state electrolyte interface. Journal of Materials Research, 2019, 34, 3593-3616.	2.6	30
98	Polymer-Ceramic Composite Electrolytes for Lithium Batteries: A Comparison between the Single-Ion-Conducting Polymer Matrix and Its Counterpart. ACS Applied Energy Materials, 2020, 3, 8871-8881.	5.1	30
99	Formation of Iron Oxyfluoride Phase on the Surface of Nano-Fe ₃ O ₄ Conversion Compound for Electrochemical Energy Storage. Journal of Physical Chemistry Letters, 2013, 4, 3798-3805.	4.6	28
100	Structure of Spontaneously Formed Solid-Electrolyte Interphase on Lithiated Graphite Determined Using Small-Angle Neutron Scattering. Journal of Physical Chemistry C, 2015, 119, 9816-9823.	3.1	28
101	Probing battery chemistry with liquid cell electron energy loss spectroscopy. Chemical Communications, 2015, 51, 16377-16380.	4.1	25
102	Multifunctional Utilization of Pitch-Coated Carbon Fibers in Lithium-Based Rechargeable Batteries. Advanced Energy Materials, 2021, 11, 2100135.	19.5	25
103	Operando NMR and XRD study of chemically synthesized LiC oxidation in a dry room environment. Journal of Power Sources, 2015, 287, 253-260.	7.8	22
104	Deposition and Characterization of Li ₂ O-SiO ₂ -P ₂ O ₅ Thin Films. Journal of the American Ceramic Society, 1993, 76, 929-943.	3.8	21
105	Resistance to fracture in the glassy solid electrolyte Lipon. Journal of Materials Research, 2021, 36, 787-796.	2.6	21
106	Vacuum-tight sample transfer stage for a scanning electron microscopic study of stabilized lithium metal particles. Journal of Materials Science, 2012, 47, 1572-1577.	3.7	19
107	Evolution of the lithium morphology from cycling of thin film solid state batteries. Journal of Electroceramics, 2017, 38, 222-229.	2.0	18
108	In situ stress measurements during electrochemical cycling of lithium-rich cathodes. Journal of Power Sources, 2017, 364, 383-391.	7.8	18

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109	Mixed Polyanion Glass Cathodes: Iron Phosphate Vanadate Glasses. Journal of the Electrochemical Society, 2014, 161, A2210-A2215.	2.9	17
110	A detector for neutron imaging. IEEE Transactions on Nuclear Science, 2004, 51, 1016-1019.	2.0	16
111	Dry Synthesis of Lithium Intercalated Graphite Powder and Fiber. Journal of the Electrochemical Society, 2014, 161, A614-A619.	2.9	15
112	Lithium Transport in an Amorphous $\text{Li}_{1-x}\text{Si}_x$ Anode Investigated by Quasi-elastic Neutron Scattering. Journal of Physical Chemistry C, 2017, 121, 11083-11088.	3.1	15
113	Plasma Synthesis of Spherical Crystalline and Amorphous Electrolyte Nanopowders for Solid-State Batteries. ACS Applied Materials & Interfaces, 2020, 12, 11570-11578.	8.0	15
114	Electroanalytical Measurement of Interphase Formation at a Li Metal/Solid Electrolyte Interface. ACS Energy Letters, 2020, 5, 3860-3867.	17.4	14
115	Gel composite electrolyte – an effective way to utilize ceramic fillers in lithium batteries. Journal of Materials Chemistry A, 2021, 9, 6555-6566.	10.3	14
116	Understanding How Structure and Crystallinity Affect Performance in Solid-State Batteries Using a Glass Ceramic Li_3VO_8 Cathode. Chemistry of Materials, 2019, 31, 6135-6144.	6.7	13
117	Approaches toward lithium metal stabilization. MRS Bulletin, 2018, 43, 752-758.	3.5	12
118	Comparing the Purity of Rolled versus Evaporated Lithium Metal Films Using X-ray Microtomography. ACS Energy Letters, 2022, 7, 1120-1124.	17.4	11
119	The use of Magnetron Sputtering for the Production of Heterogeneous Catalysts. Studies in Surface Science and Catalysis, 2006, , 71-78.	1.5	10
120	Effective conductivity of particulate polymer composite electrolytes using random resistor network method. Solid State Ionics, 2011, 199-200, 44-53.	2.7	10
121	Graphite Foams for Lithium-Ion Battery Current Collectors. ECS Transactions, 2006, 3, 23-28.	0.5	9
122	Lithium Vanadium Oxide ($\text{Li}_{1.1}\text{V}_3\text{O}_8$) Coated with Amorphous Lithium Phosphorous Oxynitride (LiPON): Role of Material Morphology and Interfacial Structure on Resulting Electrochemistry. Journal of the Electrochemical Society, 2017, 164, A1503-A1513.	2.9	9
123	Effects of Plasticizer Content and Ceramic Addition on Electrochemical Properties of Cross-Linked Polymer Electrolyte. Journal of the Electrochemical Society, 2021, 168, 050549.	2.9	9
124	Preparation of Bi Nanowires from the Reaction between Ammonia and $\text{Bi}_{1.7}\text{V}_8\text{O}_{16}$. Chemistry of Materials, 2004, 16, 3348-3351.	6.7	8
125	Study of the Segmental Dynamics and Ion Transport of Solid Polymer Electrolytes in the Semi-crystalline State. Frontiers in Chemistry, 2020, 8, 592604.	3.6	8
126	Thin Film Rechargeable Lithium Batteries for Implantable Devices. ASAIO Journal, 1997, 43, M647.	1.6	7

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127	Hydration of Sodium beta- and beta''-Aluminas. Journal of the American Ceramic Society, 1987, 70, 816-821.	3.8	6
128	Thin Film Batteries for Energy Harvesting. , 2009, , 355-363.		5
129	Exploiting the Oxygen Redox Reaction and Crystal-Preferred Orientation in a P3-Type Na _{2/3} Mg _{1/3} Mn _{2/3} O ₂ Thin-Film Electrode. Energy & Fuels, 2020, 34, 7692-7699.	5.1	5
130	Preparation of thin-film neutron converter foils for imaging detectors. IEEE Transactions on Nuclear Science, 2004, 51, 1034-1038.	2.0	3
131	Understanding Catalyst Stability through Aberration-Corrected STEM. Microscopy and Microanalysis, 2009, 15, 1408-1409.	0.4	3
132	Cathode Materials: Phosphorous Pentasulfide as a Novel Additive for High-Performance Lithium-Sulfur Batteries (Adv. Funct. Mater. 8/2013). Advanced Functional Materials, 2013, 23, 918-918.	14.9	3
133	Mesoporous Carbon Materials as Electrodes for Electrochemical Double-Layer Capacitor. Materials Research Society Symposia Proceedings, 2006, 973, 1.	0.1	2
134	In situ Electrochemical TEM for Quantitative Nanoscale Imaging Dynamics of Solid Electrolyte Interphase and Lithium Electrodeposition. Microscopy and Microanalysis, 2015, 21, 2437-2438.	0.4	2
135	Magnetron Sputtering to Prepare Supported Metal Catalysts. , 2008, , 347-353.		2
136	Tuning Electrodeposition Parameters for Tailored Nanoparticle Size, Shape, and Morphology: An In Situ ec-STEM Investigation. Microscopy and Microanalysis, 2014, 20, 1506-1507.	0.4	1
137	In operando Transmission Electron Microscopy Imaging of SEI Formation and Structure in Li-Ion and Li-Metal Batteries. Microscopy and Microanalysis, 2014, 20, 1538-1539.	0.4	1
138	A "Hidden" Mesoscopic Feature Revealed By Electron Microscopy Could Facilitate Ion Transport In Solid Electrolytes. Microscopy and Microanalysis, 2016, 22, 1308-1309.	0.4	0
139	Integrating Novel Microscopy into Battery Research: From Atomic Resolution to In Situ and Functional Imaging. Microscopy and Microanalysis, 2017, 23, 1998-1999.	0.4	0
140	In situ Nanoscale Imaging and Spectroscopy of Energy Storage Materials. Microscopy and Microanalysis, 2017, 23, 1964-1965.	0.4	0
141	Structure and Electrochemistry of LiV ₃ O ₈ Thin Film Electrode: Effect of Diffusion Rate and Concentration on Cell Polarization. ECS Meeting Abstracts, 2019, , .	0.0	0
142	A Three-Dimensional, Interconnected Composite As a Thin Film Solid Electrolyte. ECS Meeting Abstracts, 2019, , .	0.0	0
143	Precision Electroanalytical Measurements of Li/Solid-State Electrolyte Interfaces. ECS Meeting Abstracts, 2019, , .	0.0	0
144	Lipon-like Electrolyte Powders Made By Scalable Alternative Processing. ECS Meeting Abstracts, 2019, , .	0.0	0

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145	(Invited) Thin Film Batteries Still Have Interesting Lessons for Lithium Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
146	(Invited) Mechanisms of Stress Relaxation and Intensification at the Lithium/Solid Electrolyte Interface. ECS Meeting Abstracts, 2019, , .	0.0	0
147	Electroanalytical Characterization of the Interphase between the Solid Electrolyte Lipon and Li Metal. ECS Meeting Abstracts, 2020, MA2020-02, 1025-1025.	0.0	0