

Nancy J Dudney

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1307035/publications.pdf>

Version: 2024-02-01

147
papers

14,852
citations

19608

61
h-index

18606

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. <i>Nature Energy</i> , 2019, 4, 187-196.	19.8	1,099
2	Thin-film lithium and lithium-ion batteries. <i>Solid State Ionics</i> , 2000, 135, 33-45.	1.3	987
3	Hierarchically Structured Sulfur/Carbon Nanocomposite Material for High-Energy Lithium Battery. <i>Chemistry of Materials</i> , 2009, 21, 4724-4730.	3.2	815
4	Anomalous High Ionic Conductivity of Nanoporous Li_3PS_4 . <i>Journal of the American Chemical Society</i> , 2013, 135, 975-978.	6.6	709
5	Solid Electrolyte: the Key for High-Voltage Lithium Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1401408.	10.2	544
6	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.	3.2	445
7	Electrochemically-driven solid-state amorphization in lithium-silicon alloys and implications for lithium storage. <i>Acta Materialia</i> , 2003, 51, 1103-1113.	3.8	440
8	Phosphorous Pentasulfide as a Novel Additive for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 1064-1069.	7.8	397
9	Lithium Superionic Sulfide Cathode for All-Solid Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2013, 7, 2829-2833.	7.3	333
10	Air-stable, high-conduction solid electrolytes of arsenic-substituted Li_4SnS_4 . <i>Energy and Environmental Science</i> , 2014, 7, 1053-1058.	15.6	326
11	Interfacial Stability of Li Metal-Solid Electrolyte Elucidated via in Situ Electron Microscopy. <i>Nano Letters</i> , 2016, 16, 7030-7036.	4.5	309
12	Lithium Polysulfidophosphates: A Family of Lithium-Conducting Sulfur-Rich Compounds for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7460-7463.	7.2	263
13	Real Space Mapping of Li-Ion Transport in Amorphous Si Anodes with Nanometer Resolution. <i>Nano Letters</i> , 2010, 10, 3420-3425.	4.5	232
14	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. <i>ACS Energy Letters</i> , 0, , 1399-1404.	8.8	228
15	Local electronic structure variation resulting in Li filament formation within solid electrolytes. <i>Nature Materials</i> , 2021, 20, 1485-1490.	13.3	226
16	Electrochemical and rate performance study of high-voltage lithium-rich composition: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$. <i>Journal of Power Sources</i> , 2012, 199, 220-226.	4.0	210
17	Nanoscale Imaging of Fundamental Li Battery Chemistry: Solid-Electrolyte Interphase Formation and Preferential Growth of Lithium Metal Nanoclusters. <i>Nano Letters</i> , 2015, 15, 2011-2018.	4.5	185
18	In Situ Ambient Pressure X-ray Photoelectron Spectroscopy Studies of Lithium-Oxygen Redox Reactions. <i>Scientific Reports</i> , 2012, 2, 715.	1.6	180

#	ARTICLE	IF	CITATIONS
19	Electrochemically-driven solid-state amorphization in lithium metal anodes. <i>Journal of Power Sources</i> , 2003, 119-121, 604-609.	4.0	177
20	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.	2.2	172
21	Thermal stability and catalytic activity of gold nanoparticles supported on silica. <i>Journal of Catalysis</i> , 2009, 262, 92-101.	3.1	170
22	Lithium Diffusion in $\text{Li}_{x}\text{CoO}_{2}$ (0.45 $\leq x \leq 0.7$) Intercalation Cathodes. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A74.	2.2	159
23	Ultrahigh Energy Density Microbatteries Enabled by New Electrode Architecture and Micropackaging Design. <i>Advanced Materials</i> , 2010, 22, E139-44.	11.1	156
24	Interface Limited Lithium Transport in Solid-State Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 298-303.	2.1	148
25	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.	4.0	142
26	Electrochemical and Solid-State Lithiation of Graphitic $\text{C}_{3\text{N}_{4}}$. <i>Chemistry of Materials</i> , 2013, 25, 503-508.	3.2	141
27	Artificial Solid Electrolyte Interphase To Address the Electrochemical Degradation of Silicon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10083-10088.	4.0	141
28	Surface chemistry of metal oxide coated lithium manganese nickel oxide thin film cathodes studied by XPS. <i>Electrochimica Acta</i> , 2013, 90, 135-147.	2.6	140
29	Solid electrolyte coated high voltage layered layered lithium-rich composite cathode: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_{2}$. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5587.	5.2	137
30	Thin Film Micro-Batteries. <i>Electrochemical Society Interface</i> , 2008, 17, 44-48.	0.3	134
31	Surface studies of high voltage lithium rich composition: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_{2}$. <i>Journal of Power Sources</i> , 2012, 216, 179-186.	4.0	131
32	Gold Nanoparticles Supported on Carbon Nitride: Influence of Surface Hydroxyls on Low Temperature Carbon Monoxide Oxidation. <i>ACS Catalysis</i> , 2012, 2, 1138-1146.	5.5	127
33	Influence of Lithium Salts on the Discharge Chemistry of Li-Air Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1242-1247.	2.1	123
34	Understanding the Degradation of Silicon Electrodes for Lithium-Ion Batteries Using Acoustic Emission. <i>Journal of the Electrochemical Society</i> , 2010, 157, A1354.	1.3	122
35	Mechanical characterization of LiPON films using nanoindentation. <i>Thin Solid Films</i> , 2011, 520, 413-418.	0.8	122
36	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.	1.5	114

#	ARTICLE	IF	CITATIONS
37	Resolving the Grain Boundary and Lattice Impedance of Hot-Pressed $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Garnet Electrolytes. <i>ChemElectroChem</i> , 2014, 1, 375-378.	1.7	112
38	Using all energy in a battery. <i>Science</i> , 2015, 347, 131-132.	6.0	99
39	Resolving the Amorphous Structure of Lithium Phosphorus Oxynitride (Lipon). <i>Journal of the American Chemical Society</i> , 2018, 140, 11029-11038.	6.6	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.	4.0	97
41	Decoupling Electrochemical Reaction and Diffusion Processes in Ionically-Conductive Solids on the Nanometer Scale. <i>ACS Nano</i> , 2010, 4, 7349-7357.	7.3	96
42	Nanoparticles of gold on -AlO produced by dc magnetron sputtering. <i>Journal of Catalysis</i> , 2005, 231, 151-158.	3.1	95
43	High voltage stability of LiCoO_2 particles with a nano-scale Lipon coating. <i>Electrochimica Acta</i> , 2011, 56, 6573-6580.	2.6	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.	4.0	89
45	Deposition and Confinement of Li Metal along an Artificial Lipon-Lipon Interface. <i>ACS Energy Letters</i> , 2019, 4, 651-655.	8.8	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.	0.2	83
47	Lithium-Ion Batteries: Solid Electrolyte: the Key for High-Voltage Lithium Batteries (<i>Adv. Energy Mater.</i>) Tj ETQq1 1 0.784314 rgBT	10.2	82
48	Quantitative Electrochemical Measurements Using <i>In Situ</i> ec-S/TEM Devices. <i>Microscopy and Microanalysis</i> , 2014, 20, 452-461.	0.2	80
49	Anomalous Discharge Product Distribution in Lithium-Air Cathodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8401-8408.	1.5	79
50	A high conductivity oxide-sulfide composite lithium superionic conductor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4111-4116.	5.2	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.	10.2	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.	4.0	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.	6.6	70
54	A three-dimensional interconnected polymer/ceramic composite as a thin film solid electrolyte. <i>Energy Storage Materials</i> , 2020, 26, 242-249.	9.5	70

#	ARTICLE	IF	CITATIONS
55	Magnetron sputtering of gold nanoparticles onto WO ₃ and activated carbon. <i>Catalysis Today</i> , 2007, 122, 248-253.	2.2	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.	4.0	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.	1.5	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.	5.2	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.	4.0	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.	4.0	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.	7.3	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.	6.6	61
63	High-Voltage Cycling Behavior of Thin-Film LiCoO ₂ Cathodes. <i>Journal of the Electrochemical Society</i> , 2002, 149, A1442.	1.3	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.	1.3	59
65	Advanced Lithium Battery Cathodes Using Dispersed Carbon Fibers as the Current Collector. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1060.	1.3	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.	1.5	59
67	Local Detection of Activation Energy for Ionic Transport in Lithium Cobalt Oxide. <i>Nano Letters</i> , 2012, 12, 3399-3403.	4.5	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.	4.0	56
69	Current Collectors for Rechargeable Li-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 158, A658-A663.	1.3	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.	1.2	55
71	Determining and Minimizing Resistance for Ion Transport at the Polymer/Ceramic Electrolyte Interface. <i>ACS Energy Letters</i> , 2019, 4, 1080-1085.	8.8	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.	1.3	51

#	ARTICLE	IF	CITATIONS
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.	10.2	50
74	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.	1.3	48
75	Mesoscopic Framework Enables Facile Ionic Transport in Solid Electrolytes for Li Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600053.	10.2	46
76	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.	1.3	45
77	Degradation mechanisms of lithium-rich nickel manganese cobalt oxide cathode thin films. <i>RSC Advances</i> , 2014, 4, 23364.	1.7	45
78	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.	1.2	44
79	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.	1.9	40
80	In situ atomic force microscopy studies on lithium (de)intercalation-induced morphology changes in Li CoO ₂ micro-machined thin film electrodes. <i>Journal of Power Sources</i> , 2013, 222, 417-425.	4.0	40
81	Practical Considerations for Testing Polymer Electrolytes for High-Energy Solid-State Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2240-2247.	8.8	40
82	Properties of lithium phosphorus oxynitride (Lipon) for 3D solid-state lithium batteries. <i>Journal of Materials Research</i> , 2010, 25, 1507-1515.	1.2	39
83	Electrode architectures for high capacity multivalent conversion compounds: iron (ii and iii) fluoride. <i>RSC Advances</i> , 2014, 4, 6730.	1.7	39
84	Modeling of all-solid-state thin-film Li-ion batteries: Accuracy improvement. <i>Solid State Ionics</i> , 2019, 334, 111-116.	1.3	39
85	Nanoindentation of high-purity vapor deposited lithium films: The elastic modulus. <i>Journal of Materials Research</i> , 2018, 33, 1335-1346.	1.2	38
86	Analysis of composite electrolytes with sintered reinforcement structure for energy storage applications. <i>Journal of Power Sources</i> , 2013, 241, 178-185.	4.0	37
87	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via <i>in Situ</i> Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 151-157.	4.5	36
88	The possibility of forming a sacrificial anode coating for Mg. <i>Corrosion Science</i> , 2014, 87, 11-14.	3.0	35
89	Gas evolution from cathode materials: A pathway to solvent decomposition concomitant to SEI formation. <i>Journal of Power Sources</i> , 2013, 239, 341-346.	4.0	34
90	Evidence for the Formation of Nitrogen-Rich Platinum and Palladium Nitride Nanoparticles. <i>Chemistry of Materials</i> , 2013, 25, 4936-4945.	3.2	33

#	ARTICLE	IF	CITATIONS
91	Multifunctional approaches for safe structural batteries. <i>Journal of Energy Storage</i> , 2021, 40, 102747.	3.9	33
92	Influence of Support Hydroxides on the Catalytic Activity of Oxidized Gold Clusters. <i>ChemCatChem</i> , 2010, 2, 281-286.	1.8	32
93	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.	1.7	31
94	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.	4.0	30
95	Intrinsic Surface Stability in LiMn _{2-x} 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.	2.2	30
96	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.	4.0	30
97	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.	1.2	30
98	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.	2.5	30
99	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.	2.1	28
100	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.	1.5	28
101	Probing battery chemistry with liquid cell electron energy loss spectroscopy. <i>Chemical Communications</i> , 2015, 51, 16377-16380.	2.2	25
102	Multifunctional Utilization of Pitch-Coated Carbon Fibers in Lithium-Based Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100135.	10.2	25
103	Operando NMR and XRD study of chemically synthesized LiC oxidation in a dry room environment. <i>Journal of Power Sources</i> , 2015, 287, 253-260.	4.0	22
104	Deposition and Characterization of Li ₂ O-SiO ₂ -P ₂ O ₅ Thin Films. <i>Journal of the American Ceramic Society</i> , 1993, 76, 929-943.	1.9	21
105	Resistance to fracture in the glassy solid electrolyte Lipon. <i>Journal of Materials Research</i> , 2021, 36, 787-796.	1.2	21
106	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.	1.7	19
107	Evolution of the lithium morphology from cycling of thin film solid state batteries. <i>Journal of Electroceramics</i> , 2017, 38, 222-229.	0.8	18
108	In situ stress measurements during electrochemical cycling of lithium-rich cathodes. <i>Journal of Power Sources</i> , 2017, 364, 383-391.	4.0	18

#	ARTICLE	IF	CITATIONS
109	Mixed Polyanion Glass Cathodes: Iron Phosphate Vanadate Glasses. <i>Journal of the Electrochemical Society</i> , 2014, 161, A2210-A2215.	1.3	17
110	A detector for neutron imaging. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 1016-1019.	1.2	16
111	Dry Synthesis of Lithium Intercalated Graphite Powder and Fiber. <i>Journal of the Electrochemical Society</i> , 2014, 161, A614-A619.	1.3	15
112	Lithium Transport in an Amorphous Li_xSi Anode Investigated by Quasi-elastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11083-11088.	1.5	15
113	Plasma Synthesis of Spherical Crystalline and Amorphous Electrolyte Nanopowders for Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11570-11578.	4.0	15
114	Electroanalytical Measurement of Interphase Formation at a Li Metal/Solid Electrolyte Interface. <i>ACS Energy Letters</i> , 2020, 5, 3860-3867.	8.8	14
115	Gel composite electrolyte – an effective way to utilize ceramic fillers in lithium batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6555-6566.	5.2	14
116	Understanding How Structure and Crystallinity Affect Performance in Solid-State Batteries Using a Glass Ceramic Li_3VO_8 Cathode. <i>Chemistry of Materials</i> , 2019, 31, 6135-6144.	3.2	13
117	Approaches toward lithium metal stabilization. <i>MRS Bulletin</i> , 2018, 43, 752-758.	1.7	12
118	Comparing the Purity of Rolled versus Evaporated Lithium Metal Films Using X-ray Microtomography. <i>ACS Energy Letters</i> , 2022, 7, 1120-1124.	8.8	11
119	The use of Magnetron Sputtering for the Production of Heterogeneous Catalysts. <i>Studies in Surface Science and Catalysis</i> , 2006, , 71-78.	1.5	10
120	Effective conductivity of particulate polymer composite electrolytes using random resistor network method. <i>Solid State Ionics</i> , 2011, 199-200, 44-53.	1.3	10
121	Graphite Foams for Lithium-Ion Battery Current Collectors. <i>ECS Transactions</i> , 2006, 3, 23-28.	0.3	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. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1503-A1513.	1.3	9
123	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.	1.3	9
124	Preparation of Bi Nanowires from the Reaction between Ammonia and $\text{Bi}_1.7\text{V}_8\text{O}_{16}$. <i>Chemistry of Materials</i> , 2004, 16, 3348-3351.	3.2	8
125	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.	1.8	8
126	Thin Film Rechargeable Lithium Batteries for Implantable Devices. <i>ASAIO Journal</i> , 1997, 43, M647.	0.9	7

#	ARTICLE	IF	CITATIONS
127	Hydration of Sodium beta- and beta"-Aluminas. Journal of the American Ceramic Society, 1987, 70, 816-821.	1.9	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.	2.5	5
130	Preparation of thin-film neutron converter foils for imaging detectors. IEEE Transactions on Nuclear Science, 2004, 51, 1034-1038.	1.2	3
131	Understanding Catalyst Stability through Aberration-Corrected STEM. Microscopy and Microanalysis, 2009, 15, 1408-1409.	0.2	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.	7.8	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.	0.2	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.	0.2	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.	0.2	1
138	A "Hidden" Mesoscopic Feature Revealed By Electron Microscopy Could Facilitate Ion Transport In Solid Electrolytes. Microscopy and Microanalysis, 2016, 22, 1308-1309.	0.2	0
139	Integrating Novel Microscopy into Battery Research: From Atomic Resolution to In Situ and Functional Imaging. Microscopy and Microanalysis, 2017, 23, 1998-1999.	0.2	0
140	In situ Nanoscale Imaging and Spectroscopy of Energy Storage Materials. Microscopy and Microanalysis, 2017, 23, 1964-1965.	0.2	0
141	Structure and Electrochemistry of LiV3O8 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

#	ARTICLE	IF	CITATIONS
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