Daniel Brandell

List of Publications by Year
in descending order

202 papers	8,303 citations	57631 44 h-index	64668 79 g-index
211 all docs	211 docs citations	211 times ranked	7506 citing authors

#	Article	IF	Citations
1	Ternary Ionogel Electrolytes Enable Quasiâ€Solidâ€State Potassium Dualâ€Ion Intercalation Batteries. Advanced Energy and Sustainability Research, 2022, 3, 2100122.	2.8	6
2	Artificial intelligence driven in-silico discovery of novel organic lithium-ion battery cathodes. Energy Storage Materials, 2022, 44, 313-325.	9.5	23
3	Recent advances in lithium-sulfur batteries using biomass-derived carbons as sulfur host. Renewable and Sustainable Energy Reviews, 2022, 154, 111783.	8.2	83
4	Operando characterization of active surface area and passivation effects on sulfur-carbon composites for lithium-sulfur batteries. Electrochimica Acta, 2022, 403, 139572.	2.6	7
5	Validity of solid-state Li<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si33.svg"><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:math> diffusion coefficient estimation by electrochemical approaches for lithium-ion batteries. Electrochimica Acta, 2022, 404, 139727.	2.6	19
6	Improved Battery Cycle Life Prediction Using a Hybrid Dataâ€Driven Model Incorporating Linear Support Vector Regression and Gaussian. ChemPhysChem, 2022, 23, .	1.0	20
7	Designing Polyurethane Solid Polymer Electrolytes for High-Temperature Lithium Metal Batteries. ACS Applied Energy Materials, 2022, 5, 407-418.	2.5	19
8	Towards reliable three-electrode cells for lithiumâ€œsulfur batteries. Chemical Communications, 2022, 58, 705-708.	2.2	9
9	Concentrated LiFSIâ€œEthylene Carbonate Electrolytes and Their Compatibility with High-Capacity and High-Voltage Electrodes. ACS Applied Energy Materials, 2022, 5, 585-595.	2.5	15
10	Impact of Compression on the Electrochemical Performance of the Sulfur/Carbon Composite Electrode in Lithiumâ€Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	2.4	3
11	Anionic Redox and Electrochemical Kinetics of the Na₂Mn₃O₇ Cathode Material for Sodium-Ion Batteries. Energy & Fuels, 2022, 36, 4015-4025.	2.5	11
12	A renaissance for lithium-sulfur batteries through low-cost, efficient, and sustainable biomass cathodes. One Earth, 2022, 5, 224-226.	3.6	2
13	Correlations between precipitation reactions and electrochemical performance of lithium-sulfur batteries probed by operando scattering techniques. CheM, 2022, 8, 1476-1492.	5.8	13
14	Exploring metastable phases during lithiation of organic battery electrode materials. ChemSusChem, 2022, , .	3.6	4
15	On the Durability of Protective Titania Coatings on Highâ€Voltage Spinel Cathodes. ChemSusChem, 2022, 15, .	3.6	6
16	Transference Number in Polymer Electrolytes: Mind the Reference-Frame Gap. Journal of the American Chemical Society, 2022, 144, 7583-7587.	6.6	39
17	Prediction of SEI Formation in Allâ€Solidâ€State Batteries: Computational Insights from PCLâ€based Polymer Electrolyte Decomposition on Lithiumâ€Metal. Batteries and Supercaps, 2022, 5, .	2.4	11
18	Waste Office Paper Derived Celluloseâ€Based Carbon Host in Freestanding Cathodes for Lithiumâ€Sulfur Batteries. ChemElectroChem, 2022, 9, .	1.7	2

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19	Dissecting the Solid Polymer Electrolyteâ€“Electrode Interface in the Vicinity of Electrochemical Stability Limits. ACS Applied Materials & Interfaces, 2022, 14, 28716-28728.	4.0	5
20	An Integrated Flowâ€“Electricâ€“Thermal Model for a Cylindrical Liâ€Ion Battery Module with a Direct Liquid Cooling Strategy. Energy Technology, 2022, 10, .	1.8	3
21	Facile Synthesis of Amino-functionalized Mesoporous Fe3O4/rGO 3D Nanocomposite by Diamine compounds as Li-ion Battery Anodes. Applied Surface Science, 2022, 601, 154120.	3.1	11
22	A perspective on organic electrode materials and technologies for next generation batteries. Journal of Power Sources, 2021, 482, 228814.	4.0	140
23	Nature of the Cathodeâ€“Electrolyte Interface in Highly Concentrated Electrolytes Used in Graphite Dual-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 3867-3880.	4.0	47
24	Polymer-based hybrid battery electrolytes: theoretical insights, recent advances and challenges. Journal of Materials Chemistry A, 2021, 9, 6050-6069.	5.2	40
25	Decomposition of Carbonateâ€Based Electrolytes: Differences and Peculiarities for Liquids vs. Polymers Observed Using Operando Gas Analysis. Batteries and Supercaps, 2021, 4, 785-790.	2.4	16
26	Overcoming the Obstacle of Polymerâ€“Polymer Resistances in Double Layer Solid Polymer Electrolytes. Journal of Physical Chemistry Letters, 2021, 12, 2809-2814.	2.1	15
27	Bridging physics-based and equivalent circuit models for lithium-ion batteries. Electrochimica Acta, 2021, 372, 137829.	2.6	42
28	Influence of Binder Crystallinity on the Performance of Si Electrodes with Poly(vinyl alcohol) Binders. ACS Applied Energy Materials, 2021, 4, 3008-3016.	2.5	30
29	How the utilised SOC window in commercial Li-ion pouch cells influence battery ageing. Journal of Power Sources Advances, 2021, 8, 100054.	2.6	14
30	Modelling capacity fade in silicon-graphite composite electrodes for lithium-ion batteries. Electrochimica Acta, 2021, 377, 138067.	2.6	33
31	A molecular dynamics study of a fully zwitterionic copolymer/ionic liquidâ€based electrolyte: Li⁺ transport mechanisms and ionic interactions. Journal of Computational Chemistry, 2021, 42, 1689-1703.	1.5	6
32	Analyzing and mitigating battery ageing by self-heating through a coupled thermal-electrochemical model of cylindrical Li-ion cells. Journal of Energy Storage, 2021, 39, 102648.	3.9	31
33	Polymer-based Solid State Batteries. , 2021, , .		12
34	Importance of the Ion-Pair Lifetime in Polymer Electrolytes. Journal of Physical Chemistry Letters, 2021, 12, 8460-8464.	2.1	15
35	Poly(Ethylene Glycolâ€<i>block</i>â€2â€Ethylâ€2â€Oxazoline) as Cathode Binder in Lithiumâ€Sulfur Batteries. ChemistryOpen, 2021, 10, 960-965.	0.9	3
36	Investigating oxidative stability of lithium-ion battery electrolytes using synthetic charge-discharge profile voltammetry. Journal of Power Sources Advances, 2021, 11, 100071.	2.6	14

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37	Structureâ€“property relationships in organic battery anode materials: exploring redox reactions in crystalline Na- and Li-benzene diacrylate using combined crystallography and density functional theory calculations. Materials Advances, 2021, 2, 1024-1034.	2.6	7
38	Polyesterâ€ZrO₂ Nanocomposite Electrolytes with High Li Transference Numbers for Ambient Temperature Allâ€Solidâ€State Lithium Batteries. Batteries and Supercaps, 2021, 4, 653-662.	2.4	17
39	Going Beyond Sweep Voltammetry: Alternative Approaches in Search of the Elusive Electrochemical Stability of Polymer Electrolytes. Journal of the Electrochemical Society, 2021, 168, 100523.	1.3	18
40	The role of coordination strength in solid polymer electrolytes: compositional dependence of transference numbers in the poly(Îµ-caprolactone)â€“poly(trimethylene carbonate) system. Physical Chemistry Chemical Physics, 2021, 23, 25550-25557.	1.3	18
41	Limitations of Ultrathin Al₂O₃ Coatings on LNMO Cathodes. ACS Omega, 2021, 6, 30644-30655.	1.6	9
42	Facile stitching of graphene oxide nanosheets with ethylenediamine as three dimensional anode material for lithium-ion battery. Journal of Alloys and Compounds, 2020, 818, 152912.	2.8	39
43	Mechanically Robust Yet Highly Conductive Diblock Copolymer Solid Polymer Electrolyte for Ambient Temperature Battery Applications. ACS Applied Polymer Materials, 2020, 2, 939-948.	2.0	22
44	Simultaneous Monitoring of Crystalline Active Materials and Resistance Evolution in Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2020, 142, 1449-1456.	6.6	42
45	Sulfolaneâ€Based Ethylene Carbonateâ€Free Electrolytes for LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂â^'Li₄Ti₅O₁₂ Batteries. Batteries and Supercaps, 2020, 3, 201-207.	2.4	12
46	Interfacial Structures in Ionic Liquid-Based Ternary Electrolytes for Lithium-Metal Batteries: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2020, 124, 9648-9657.	1.2	23
47	Shortâ€range ordering in the Liâ€rich disordered rock salt cathode material Li 2 VO 2 F revealed by Raman spectroscopy. Journal of Raman Spectroscopy, 2020, 51, 2095-2101.	1.2	13
48	The Surface Chemistry of Thin Lithium Metal Electrodes in Lithiumâ€Sulfur Cells. Batteries and Supercaps, 2020, 3, 1370-1376.	2.4	17
49	Understanding the Electrochemical Stability Window of Polymer Electrolytes in Solid-State Batteries from Atomic-Scale Modeling: The Role of Li-Ion Salts. Chemistry of Materials, 2020, 32, 7237-7246.	3.2	101
50	Effects of Solvent Polarity on Li-ion Diffusion in Polymer Electrolytes: An All-Atom Molecular Dynamics Study with Charge Scaling. Journal of Physical Chemistry B, 2020, 124, 8124-8131.	1.2	35
51	How Mn/Ni Ordering Controls Electrochemical Performance in High-Voltage Spinel LiNi_{0.44}Mn_{1.56}O₄ with Fixed Oxygen Content. ACS Applied Energy Materials, 2020, 3, 6001-6013.	2.5	33
52	Stabilization of Li-Rich Disordered Rocksalt Oxyfluoride Cathodes by Particle Surface Modification. ACS Applied Energy Materials, 2020, 3, 5937-5948.	2.5	19
53	Influence of Electrolyte Additives on the Degradation of Li₂VO₂F Li-Rich Cathodes. Journal of Physical Chemistry C, 2020, 124, 12956-12967.	1.5	8
54	Electronic conductivity of polymer electrolytes: electronic charge transport properties of LiTFSI-doped PEO. Physical Chemistry Chemical Physics, 2020, 22, 7680-7684.	1.3	24

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55	Polyketones as Host Materials for Solid Polymer Electrolytes. Journal of the Electrochemical Society, 2020, 167, 070537.	1.3	23
56	Mechanically Stable UVâ€Crosslinked Polyesterâ€Polycarbonate Solid Polymer Electrolyte for Highâ€Temperature Batteries. Batteries and Supercaps, 2020, 3, 527-533.	2.4	14
57	Elimination of Fluorination: The Influence of Fluorine-Free Electrolytes on the Performance of LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂/Siliconâ€“Graphite Li-Ion Battery Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 10041-10052.	3.2	35
58	Catalytically graphitized freestanding carbon foams for 3D Li-ion microbatteries. Journal of Power Sources Advances, 2020, 1, 100002.	2.6	5
59	Tuning the Electrochemical Properties of Organic Battery Cathode Materials: Insights from Evolutionary Algorithm DFT Calculations. ChemSusChem, 2020, 13, 2402-2409.	3.6	15
60	Understanding the redox process upon electrochemical cycling of the P2-Na0.78Co1/2Mn1/3Ni1/6O2 electrode material for sodium-ion batteries. Communications Chemistry, 2020, 3, .	2.0	41
61	Restricted Ion Transport by Plasticizing Side Chains in Polycarbonate-Based Solid Electrolytes. Macromolecules, 2020, 53, 764-774.	2.2	42
62	Interactions and Transport in Highly Concentrated LiTFSIâ€based Electrolytes. ChemPhysChem, 2020, 21, 1166-1176.	1.0	25
63	Electrochemical-mechanical modeling of solid polymer electrolytes: Impact of mechanical stresses on Li-ion battery performance. Electrochimica Acta, 2019, 296, 1122-1141.	2.6	57
64	Electrochemical-mechanical modeling of solid polymer electrolytes: Stress development and non-uniform electric current density in trench geometry microbatteries. Electrochimica Acta, 2019, 296, 1142-1162.	2.6	34
65	Unraveling and Mitigating the Storage Instability of Fluoroethylene Carbonate-Containing LiPF₆ Electrolytes To Stabilize Lithium Metal Anodes for High-Temperature Rechargeable Batteries. ACS Applied Energy Materials, 2019, 2, 4925-4935.	2.5	49
66	Challenges and perspectives for new material solutions in batteries. Solid State Communications, 2019, 303-304, 113733.	0.9	13
67	Silicon-Nanographite Aerogel-Based Anodes for High Performance Lithium Ion Batteries. Scientific Reports, 2019, 9, 14621.	1.6	21
68	Initial Steps in PEO Decomposition on a Li Metal Electrode. Journal of Physical Chemistry C, 2019, 123, 22851-22857.	1.5	70
69	Cellulose Separators With Integrated Carbon Nanotube Interlayers for Lithium-Sulfur Batteries: An Investigation into the Complex Interplay between Cell Components. Journal of the Electrochemical Society, 2019, 166, A3235-A3241.	1.3	17
70	Predicting Structure and Electrochemistry of Dilithium Thiophene-2,5-Dicarboxylate Electrodes by Density Functional Theory and Evolutionary Algorithms. Journal of Physical Chemistry C, 2019, 123, 4691-4700.	1.5	10
71	Effects of nanoparticle addition to poly(Îµ-caprolactone) electrolytes: Crystallinity, conductivity and ambient temperature battery cycling. Electrochimica Acta, 2019, 300, 489-496.	2.6	45
72	Temperature Dependence of Electrochemical Degradation in LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂/Li₄Ti₅O<sub>12</sub Cells. Energy Technology, 2019, 7, 1900310.	1.8	5

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73	In situ Investigations of a Proton Trap Material: A PEDOT-Based Copolymer with Hydroquinone and Pyridine Side Groups Having Robust Cyclability in Organic Electrolytes and Ionic Liquids. ACS Applied Energy Materials, 2019, 2, 4486-4495.	2.5	15
74	Investigation of Dimethyl Carbonate and Propylene Carbonate Mixtures for LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂â€Li₄Ti₅O₁₂ Cells. ChemElectroChem, 2019, 6, 3429-3436.	1.7	8
75	Degradation Mechanisms in Li₂VO₂F Li-Rich Disordered Rock-Salt Cathodes. Chemistry of Materials, 2019, 31, 6084-6096.	3.2	31
76	Cation Ordering and Oxygen Release in LiNi_{0.5â€"<i>x</i>}Mn_{1.5+<i>x</i>}O_{4â€"<i>y</i>} (LNMO): In Situ Neutron Diffraction and Performance in Li Ion Full Cells. ACS Applied Energy Materials, 2019, 2, 3323-3335.	2.5	39
77	A concentrated poly(ethylene carbonate)/poly(trimethylene carbonate) blend electrolyte for all-solid-state Li battery. Polymer Journal, 2019, 51, 753-760.	1.3	18
78	Assessing structure and stability of polymer/lithium-metal interfaces from first-principles calculations. Journal of Materials Chemistry A, 2019, 7, 8394-8404.	5.2	77
79	Towards room temperature operation of all-solid-state Na-ion batteries through polyesterâ€"polycarbonate-based polymer electrolytes. Energy Storage Materials, 2019, 19, 31-38.	9.5	45
80	Boosting Rechargeable Batteries R&D by Multiscale Modeling: Myth or Reality?. Chemical Reviews, 2019, 119, 4569-4627.	23.0	204
81	Stable Cycling of Sodium Metal All-Solid-State Batteries with Polycarbonate-Based Polymer Electrolytes. ACS Applied Polymer Materials, 2019, 1, 825-832.	2.0	30
82	Probing the interfacial chemistry of solid-state lithium batteries. Solid State Ionics, 2019, 343, 115068.	1.3	33
83	Insights into the Li-Metal/Organic Carbonate Interfacial Chemistry by Combined First-Principles Theory and X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 347-355.	1.5	10
84	Fluoroethylene Carbonate Containing Electrolytes: Origin of Poor Shelf Life and Its Mitigation. ECS Meeting Abstracts, 2019, , .	0.0	0
85	Poly(benzyl methacrylate)-poly[(oligo ethylene glycol) methyl ether methacrylate] triblock-copolymers as solid electrolyte for lithium batteries. Solid State Ionics, 2018, 321, 55-61.	1.3	24
86	Sodiumâ€Ion Battery Electrolytes: Modeling and Simulations. Advanced Energy Materials, 2018, 8, 1703036.	10.2	83
87	Beyond PEOâ€"Alternative host materials for Li + -conducting solid polymer electrolytes. Progress in Polymer Science, 2018, 81, 114-143.	11.8	744
88	The Role of LiTDI Additive in LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂/Graphite Lithium-Ion Batteries at Elevated Temperatures. Journal of the Electrochemical Society, 2018, 165, A40-A46.	1.3	16
89	Understanding the Capacity Loss in LiNi_{0.5}Mn_{1.5}O₄â€"Li₄Ti₅O₁₂ Lithium-Ion Cells at Ambient and Elevated Temperatures. Journal of Physical Chemistry C, 2018, 122, 11234-11248.	1.5	67
90	Critical evaluation of the stability of highly concentrated LiTFSI - Acetonitrile electrolytes vs. graphite, lithium metal and LiFePO4 electrodes. Journal of Power Sources, 2018, 384, 334-341.	4.0	41

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91	Toward Solid-State 3D-Microbatteries Using Functionalized Polycarbonate-Based Polymer Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 2407-2413.	4.0	25
92	Influence of state-of-charge in commercial LiNi 0.33 Mn 0.33 Co 0.33 O 2 /LiMn 2 O 4 -graphite cells analyzed by synchrotron-based photoelectron spectroscopy. Journal of Energy Storage, 2018, 15, 172-180.	3.9	13
93	Sodium-Ion Batteries: Sodium-Ion Battery Electrolytes: Modeling and Simulations (Adv. Energy Mater.) Tj ETQq1 1 0.784314 rgBT /Overl	10.2	2
94	Îµ-Caprolactone-based solid polymer electrolytes for lithium-ion batteries: synthesis, electrochemical characterization and mechanical stabilization by block copolymerization. RSC Advances, 2018, 8, 16716-16725.	1.7	40
95	Ionâ€Conductive and Thermal Properties of a Synergistic Poly(ethylene carbonate)/Poly(trimethylene) Tj ETQq1 1 0.784314 rgBT /Overl	2.0	19
96	Modeling 3D-microbatteries based on carbon foams. Electrochimica Acta, 2018, 281, 665-675.	2.6	4
97	Polycarbonates as alternative electrolyte host materials for solid-state sodium batteries. Electrochemistry Communications, 2017, 77, 58-61.	2.3	54
98	LiTDI: A Highly Efficient Additive for Electrolyte Stabilization in Lithium-Ion Batteries. Chemistry of Materials, 2017, 29, 2254-2263.	3.2	69
99	Mechanical Stabilization of Solid Polymer Electrolytes through Gamma Irradiation. Electrochimica Acta, 2017, 230, 189-195.	2.6	17
100	Dilithium 2-aminoterephthalate as a negative electrode material for lithium-ion batteries. Solid State Ionics, 2017, 307, 1-5.	1.3	12
101	On the Electrochemical Properties and Interphase Composition of Graphite: PVdF-HFP Electrodes in Dependence of Binder Content. Journal of the Electrochemical Society, 2017, 164, A1765-A1772.	1.3	21
102	Different Shades of Li₄Ti₅O₁₂ Composites: The Impact of the Binder on Interface Layer Formation. ChemElectroChem, 2017, 4, 2683-2692.	1.7	14
103	A Robust, Waterâ€Based, Functional Binder Framework for Highâ€Energy Lithiumâ€"Sulfur Batteries. ChemSusChem, 2017, 10, 2758-2766.	3.6	40
104	Li-ion batteries using electrolytes based on mixtures of poly(vinyl alcohol) and lithium bis(triflouromethane) sulfonamide salt. Electrochimica Acta, 2017, 246, 208-212.	2.6	25
105	Thermal Simulations of Polymer Electrolyte 3D Li-Microbatteries. Electrochimica Acta, 2017, 244, 129-138.	2.6	11
106	Evolution of the solid electrolyte interphase on tin phosphide anodes in sodium ion batteries probed by hard x-ray photoelectron spectroscopy. Electrochimica Acta, 2017, 245, 696-704.	2.6	38
107	The Effect of the Fluoroethylene Carbonate Additive in LiNi_{0.5}Mn_{1.5}O₄-Li₄Ti₅O₁₂Lithium-Ion Cells. Journal of the Electrochemical Society, 2017, 164, A942-A948.	1.3	25
108	Surface Layer Evolution on Graphite During Electrochemical Sodium-tetraglyme Co-intercalation. ACS Applied Materials & Interfaces, 2017, 9, 12373-12381.	4.0	49

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109	Modelling the Polymer Electrolyte/Li-Metal Interface by Molecular Dynamics simulations. Electrochimica Acta, 2017, 234, 43-51.	2.6	50
110	State-of-charge indication in Li-ion batteries by simulated impedance spectroscopy. Journal of Applied Electrochemistry, 2017, 47, 229-236.	1.5	15
111	Density Functional Theory Modeling the Interfacial Chemistry of the LiNO₃ Additive for Lithiumâ€"Sulfur Batteries by Means of Simulated Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 23324-23332.	1.5	27
112	How the Negative Electrode Influences Interfacial and Electrochemical Properties of LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂Cathodes in Li-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A3054-A3059.	1.3	67
113	Waterâ€Soluble Binders for Lithiumâ€Ion Battery Graphite Electrodes: Slurry Rheology, Coating Adhesion, and Electrochemical Performance. Energy Technology, 2017, 5, 2108-2118.	1.8	56
114	The Proton Trap Technologyâ€"Toward High Potential Quinoneâ€Based Organic Energy Storage. Advanced Energy Materials, 2017, 7, 1700259.	10.2	20
115	Modelling the morphological background to capacity fade in Si-based lithium-ion batteries. Electrochimica Acta, 2017, 258, 755-763.	2.6	19
116	d8-poly(methyl methacrylate)-poly[(oligo ethylene glycol) methyl ether methacrylate] tri-block-copolymer electrolytes: Morphology, conductivity and battery performance. Polymer, 2017, 131, 234-242.	1.8	15
117	Understanding the Capacity Loss in LiNi0.5Mn1.5O4 - Li4Ti5O12 Lithium-Ion Cells at Ambient and Elevated Temperatures. ECS Meeting Abstracts, 2017, , .	0.0	0
118	Sustainable Materials for Sustainable Energy Storage: Organic Na Electrodes. Materials, 2016, 9, 142.	1.3	65
119	Allyl ethers as combined plasticizing and crosslinkable side groups in polycarbonateâ€based polymer electrolytes for solidâ€state Li batteries. Journal of Polymer Science Part A, 2016, 54, 2128-2135.	2.5	55
120	Electrolyte decomposition on Li-metal surfaces from first-principles theory. Journal of Chemical Physics, 2016, 145, 204701.	1.2	30
121	High-Performance Light-Emitting Electrochemical Cells by Electrolyte Design. Chemistry of Materials, 2016, 28, 2618-2623.	3.2	50
122	Enhanced performance of organic materials for lithium-ion batteries using facile electrode calendaring techniques. Electrochemistry Communications, 2016, 68, 45-48.	2.3	13
123	Solubility of the Solid Electrolyte Interphase (SEI) in Sodium Ion Batteries. ACS Energy Letters, 2016, 1, 1173-1178.	8.8	269
124	Investigating the Interfacial Chemistry of Organic Electrodes in Li- and Na-Ion Batteries. Chemistry of Materials, 2016, 28, 8742-8751.	3.2	30
125	Influence of inactive electrode components on degradation phenomena in nano-Si electrodes for Li-ion batteries. Journal of Power Sources, 2016, 325, 513-524.	4.0	54
126	Optimizing the design of 3D-pillar microbatteries using finite element modelling. Electrochimica Acta, 2016, 209, 138-148.	2.6	22

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127	Manganese in the SEI Layer of Li₄Ti₅O₁₂ Studied by Combined NEXAFS and HAXPES Techniques. Journal of Physical Chemistry C, 2016, 120, 3206-3213.	1.5	44
128	Superlithiation of Organic Electrode Materials: The Case of Dilithium Benzenedipropiolate. Chemistry of Materials, 2016, 28, 1920-1926.	3.2	109
129	Ion transport in polycarbonate based solid polymer electrolytes: experimental and computational investigations. Physical Chemistry Chemical Physics, 2016, 18, 9504-9513.	1.3	129
130	The Liâ€“S battery: an investigation of redox shuttle and self-discharge behaviour with LiNO₃-containing electrolytes. RSC Advances, 2016, 6, 3632-3641.	1.7	80
131	Electrochemical characterizations of Co0.5TiOPO4 as anode material for lithium-ion batteries. Solar Energy Materials and Solar Cells, 2016, 148, 44-51.	3.0	8
132	Functional Solid-State Polymer Electrolytes through Utilization of Polycarbonates. ECS Meeting Abstracts, 2016, , .	0.0	0
133	An Organic Catalyst for Liâ€“O₂ Batteries: Dilithium Quinoneâ€•1,4â€•Dicarboxylate. ChemSusChem, 2015, 8, 2198-2203.	3.6	13
134	At the polymer electrolyte interfaces: the role of the polymer host in interphase layer formation in Li-batteries. Journal of Materials Chemistry A, 2015, 3, 13994-14000.	5.2	101
135	Hydroxyl-functionalized poly(trimethylene carbonate) electrolytes for 3D-electrode configurations. Polymer Chemistry, 2015, 6, 4766-4774.	1.9	22
136	Understanding Ionic Transport in Polypyrrole/Nanocellulose Composite Energy Storage Devices. Electrochimica Acta, 2015, 182, 1145-1152.	2.6	10
137	Realization of high performance polycarbonate-based Li polymer batteries. Electrochemistry Communications, 2015, 52, 71-74.	2.3	84
138	Synthesis of high molecular flexibility polycarbonates for solid polymer electrolytes. Electrochimica Acta, 2015, 175, 247-253.	2.6	30
139	Graft copolymer electrolytes for high temperature Li-battery applications, using poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf bis(trifluoromethanesulfonimide). Electrochimica Acta, 2015, 175, 96-103.	2.6	37
140	Copolymers of trimethylene carbonate and Îµ-caprolactone asÂelectrolytes for lithium-ion batteries. Polymer, 2015, 63, 91-98.	1.8	102
141	Functional binders as graphite exfoliation suppressants in aggressive electrolytes for lithium-ion batteries. Electrochimica Acta, 2015, 175, 141-150.	2.6	43
142	Electronic and Structural Changes in Ni_{0.5}TiOPO₄ Li-Ion Battery Cells Upon First Lithiation and Delithiation, Studied by High-Energy X-ray Spectroscopies. Journal of Physical Chemistry C, 2015, 119, 9692-9704.	1.5	17
143	Visualising the problems with balancing lithiumâ€“sulfur batteries by â€œmappingâ€•internal resistance. Chemical Communications, 2015, 51, 16502-16505.	2.2	26
144	Polymer-ionic liquid ternary systems for Li-battery electrolytes: Molecular dynamics studies of LiTFSI in a EMIm-TFSI and PEO blend. Journal of Chemical Physics, 2015, 143, 024904.	1.2	78

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145	Electrochemical Simulations of 3D-Battery Architectures. Materials and Energy, 2015, , 731-777.	2.5	0
146	Depth profiling the solid electrolyte interphase on lithium titanate (Li4Ti5O12) using synchrotron-based photoelectron spectroscopy. Journal of Power Sources, 2015, 294, 173-179.	4.0	43
147	A stable graphite negative electrode for the lithiumâ€“sulfur battery. Chemical Communications, 2015, 51, 17100-17103.	2.2	48
148	High-performance solid polymer electrolytes for lithium batteries operational at ambient temperature. Journal of Power Sources, 2015, 298, 166-170.	4.0	196
149	Molecular Dynamics Modelling of Block-Copolymer Electrolytes with High t+ Values. Electrochimica Acta, 2015, 175, 47-54.	2.6	7
150	Conjugated Pyridine-Based Polymers Characterized as Conductivity Carrying Components in Anode Materials. Journal of Physical Chemistry C, 2014, 118, 25956-25963.	1.5	19
151	Porosity Blocking in Highly Porous Carbon Black by PVdF Binder and Its Implications for the Liâ€“S System. Journal of Physical Chemistry C, 2014, 118, 25890-25898.	1.5	95
152	Benzenediacrylates as organic battery electrode materials: Na versus Li. RSC Advances, 2014, 4, 38004-38011.	1.7	55
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