

Juergen Janek

List of Publications by Year in descending order

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468
papers

36,802
citations

2795

94
h-index

4323

173
g-index

505
all docs

505
docs citations

505
times ranked

21096
citing authors

#	ARTICLE	IF	CITATIONS
1	A solid future for battery development. Nature Energy, 2016, 1, .	19.8	2,319
2	New horizons for inorganic solid state ion conductors. Energy and Environmental Science, 2018, 11, 1945-1976.	15.6	894
3	A rechargeable room-temperature sodium superoxide (NaO ₂) battery. Nature Materials, 2013, 12, 228-232.	13.3	706
4	Benchmarking the performance of all-solid-state lithium batteries. Nature Energy, 2020, 5, 259-270.	19.8	662
5	Capacity Fade in Solid-State Batteries: Interphase Formation and Chemomechanical Processes in Nickel-Rich Layered Oxide Cathodes and Lithium Thiophosphate Solid Electrolytes. Chemistry of Materials, 2017, 29, 5574-5582.	3.2	655
6	Tuning Transition Metal Oxide-Sulfur Interactions for Long Life Lithium Sulfur Batteries: The "Goldilocks" Principle. Advanced Energy Materials, 2016, 6, 1501636.	10.2	623
7	Direct Observation of the Interfacial Instability of the Fast Ionic Conductor Li ₁₀ GeP ₂ S ₁₂ at the Lithium Metal Anode. Chemistry of Materials, 2016, 28, 2400-2407.	3.2	619
8	Structure and dynamics of the fast lithium ion conductor "Li ₇ La ₃ Zr ₂ O ₁₂ ". Physical Chemistry Chemical Physics, 2011, 13, 19378.	1.3	559
9	Chemo-mechanical expansion of lithium electrode materials " on the route to mechanically optimized all-solid-state batteries. Energy and Environmental Science, 2018, 11, 2142-2158.	15.6	512
10	Room-temperature sodium-ion batteries: Improving the rate capability of carbon anode materials by templating strategies. Energy and Environmental Science, 2011, 4, 3342.	15.6	491
11	Anisotropic Lattice Strain and Mechanical Degradation of High- and Low-Nickel NCM Cathode Materials for Li-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 3286-3294.	1.5	472
12	Physicochemical Concepts of the Lithium Metal Anode in Solid-State Batteries. Chemical Reviews, 2020, 120, 7745-7794.	23.0	468
13	TEMPO: A Mobile Catalyst for Rechargeable Li-O ₂ Batteries. Journal of the American Chemical Society, 2014, 136, 15054-15064.	6.6	466
14	Toward a Fundamental Understanding of the Lithium Metal Anode in Solid-State Batteries" An Electrochemo-Mechanical Study on the Garnet-Type Solid Electrolyte Li _{6.25} Al _{0.25} La ₃ Zr ₂ O ₁₂ . ACS Applied Materials & Interfaces, 2019, 11, 14463-14477.	4.0	461
15	Influence of Lattice Polarizability on the Ionic Conductivity in the Lithium Superionic Argyrodites Li ₆ PS ₅ X (X = Cl, Br, I). Journal of the American Chemical Society, 2017, 139, 10909-10918.	6.6	446
16	Interphase formation on lithium solid electrolytes" An in situ approach to study interfacial reactions by photoelectron spectroscopy. Solid State Ionics, 2015, 278, 98-105.	1.3	428
17	Degradation of NASICON-Type Materials in Contact with Lithium Metal: Formation of Mixed Conducting Interphases (MCI) on Solid Electrolytes. Journal of Physical Chemistry C, 2013, 117, 21064-21074.	1.5	411
18	Fast Charging of Lithium-Ion Batteries: A Review of Materials Aspects. Advanced Energy Materials, 2021, 11, 2101126.	10.2	407

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19	There and Back Againâ€”The Journey of LiNiO_2 as a Cathode Active Material. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10434-10458.	7.2	400
20	Interphase formation and degradation of charge transfer kinetics between a lithium metal anode and highly crystalline $\text{Li}_7\text{P}_3\text{S}_{11}$ solid electrolyte. <i>Solid State Ionics</i> , 2016, 286, 24-33.	1.3	379
21	Interfacial reactivity and interphase growth of argyrodite solid electrolytes at lithium metal electrodes. <i>Solid State Ionics</i> , 2018, 318, 102-112.	1.3	374
22	From lithium to sodium: cell chemistry of room temperature sodiumâ€”air and sodiumâ€”sulfur batteries. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1016-1055.	1.5	368
23	Interfacial Processes and Influence of Composite Cathode Microstructure Controlling the Performance of All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17835-17845.	4.0	353
24	Dynamic formation of a solid-liquid electrolyte interphase and its consequences for hybrid-battery concepts. <i>Nature Chemistry</i> , 2016, 8, 426-434.	6.6	340
25	Chemical, Structural, and Electronic Aspects of Formation and Degradation Behavior on Different Length Scales of Ni-Rich NCM and Li-Rich HE-NCM Cathode Materials in Li-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1900985.	11.1	319
26	Lithium-Metal Growth Kinetics on LLZO Garnet-Type Solid Electrolytes. <i>Joule</i> , 2019, 3, 2030-2049.	11.7	292
27	The Detrimental Effects of Carbon Additives in $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ -Based Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35888-35896.	4.0	257
28	Volume Changes of Graphite Anodes Revisited: A Combined <i>Operando</i> X-ray Diffraction and <i>In Situ</i> Pressure Analysis Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8829-8835.	1.5	256
29	A comprehensive study on the cell chemistry of the sodium superoxide (NaO_2) battery. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11661.	1.3	253
30	Degradation Mechanisms at the $\text{Li}_{10}\text{GeP}_2\text{S}_{12}/\text{LiCoO}_2$ Cathode Interface in an All-Solid-State Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22226-22236.	4.0	250
31	High areal capacity, long cycle life 4%V ceramic all-solid-state Li-ion batteries enabled by chloride solid electrolytes. <i>Nature Energy</i> , 2022, 7, 83-93.	19.8	249
32	Visualization of the Interfacial Decomposition of Composite Cathodes in Argyrodite-Based All-Solid-State Batteries Using Time-of-Flight Secondary-Ion Mass Spectrometry. <i>Chemistry of Materials</i> , 2019, 31, 3745-3755.	3.2	246
33	Charge-Transfer-Induced Lattice Collapse in Ni-Rich NCM Cathode Materials during Delithiation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24381-24388.	1.5	242
34	Diffusion Limitation of Lithium Metal and Li-Mg Alloy Anodes on LLZO Type Solid Electrolytes as a Function of Temperature and Pressure. <i>Advanced Energy Materials</i> , 2019, 9, 1902568.	10.2	240
35	Polycrystalline and Single Crystalline NCM Cathode Materialsâ€”Quantifying Particle Cracking, Active Surface Area, and Lithium Diffusion. <i>Advanced Energy Materials</i> , 2021, 11, 2003400.	10.2	237
36	Between Scylla and Charybdis: Balancing Among Structural Stability and Energy Density of Layered NCM Cathode Materials for Advanced Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26163-26171.	1.5	233

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37	Lithium ion conductivity in $\text{Li}_{2-x}\text{P}_{2-x}\text{S}_5$ glasses – building units and local structure evolution during the crystallization of superionic conductors Li_3PS_4 , $\text{Li}_7\text{P}_3\text{S}_{11}$ and $\text{Li}_4\text{P}_2\text{S}_7$. Journal of Materials Chemistry A, 2017, 5, 18111-18119.	5.2	233
38	(Electro)chemical expansion during cycling: monitoring the pressure changes in operating solid-state lithium batteries. Journal of Materials Chemistry A, 2017, 5, 9929-9936.	5.2	222
39	On the Functionality of Coatings for Cathode Active Materials in Thiophosphate-Based All-Solid-State Batteries. Advanced Energy Materials, 2019, 9, 1900626.	10.2	221
40	Elastic strain at interfaces and its influence on ionic conductivity in nanoscaled solid electrolyte thin films – theoretical considerations and experimental studies. Physical Chemistry Chemical Physics, 2009, 11, 3043.	1.3	218
41	Electrochemical stability of non-aqueous electrolytes for sodium-ion batteries and their compatibility with $\text{Na}_{0.7}\text{CoO}_2$. Physical Chemistry Chemical Physics, 2014, 16, 1987-1998.	1.3	217
42	Lithium metal electrode kinetics and ionic conductivity of the solid lithium ion conductors $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ and $\text{Li}_7\text{La}_3\text{Zr}_2\text{TaO}_{12}$ with garnet-type structure. Journal of Power Sources, 2012, 206, 4.0 236-244.	4.0	214
43	Mesoporous TiO_2 : Comparison of Classical Sol-Gel and Nanoparticle Based Photoelectrodes for the Water Splitting Reaction. ACS Nano, 2010, 4, 3147-3154.	7.3	212
44	Systematical electrochemical study on the parasitic shuttle-effect in lithium-sulfur-cells at different temperatures and different rates. Journal of Power Sources, 2014, 259, 289-299.	4.0	212
45	Ionic conductivity and activation energy for oxygen ion transport in superlattices – the semicoherent multilayer system $\text{YSZ} (\text{ZrO}_2 + 9.5 \text{ mol}\% \text{Y}_2\text{O}_3) / \text{Y}_2\text{O}_3$. Physical Chemistry Chemical Physics, 2008, 10, 4623.	1.3	209
46	Redox-active cathode interphases in solid-state batteries. Journal of Materials Chemistry A, 2017, 5, 22750-22760.	5.2	206
47	The critical role of lithium nitrate in the gas evolution of lithium-sulfur batteries. Energy and Environmental Science, 2016, 9, 2603-2608.	15.6	202
48	Impact of Cathode Material Particle Size on the Capacity of Bulk-Type All-Solid-State Batteries. ACS Energy Letters, 2018, 3, 992-996.	8.8	201
49	Interfacial Reactivity Benchmarking of the Sodium Ion Conductors Na_3PS_4 and Sodium I^2 -Alumina for Protected Sodium Metal Anodes and Sodium All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2016, 8, 28216-28224.	4.0	195
50	Origin of Carbon Dioxide Evolved during Cycling of Nickel-Rich Layered NCM Cathodes. ACS Applied Materials & Interfaces, 2018, 10, 38892-38899.	4.0	193
51	Toward Silicon Anodes for Next-Generation Lithium Ion Batteries: A Comparative Performance Study of Various Polymer Binders and Silicon Nanopowders. ACS Applied Materials & Interfaces, 2013, 5, 7299-7307.	4.0	192
52	On the Thermodynamics, the Role of the Carbon Cathode, and the Cycle Life of the Sodium Superoxide (NaO_2) Battery. Advanced Energy Materials, 2014, 4, 1301863.	10.2	184
53	Structural Insights and 3D Diffusion Pathways within the Lithium Superionic Conductor $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$. Chemistry of Materials, 2016, 28, 5905-5915.	3.2	176
54	Electrochemical blackening of yttria-stabilized zirconia – morphological instability of the moving reaction front. Solid State Ionics, 1999, 116, 181-195.	1.3	175

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55	Stabilizing Effect of a Hybrid Surface Coating on a Ni-Rich NCM Cathode Material in All-Solid-State Batteries. <i>Chemistry of Materials</i> , 2019, 31, 9664-9672.	3.2	174
56	Design Strategies to Enable the Efficient Use of Sodium Metal Anodes in High-Energy Batteries. <i>Advanced Materials</i> , 2020, 32, e1903891.	11.1	173
57	Ordered Large-Pore Mesoporous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Spinel Thin Film Electrodes with Nanocrystalline Framework for High Rate Rechargeable Lithium Batteries: Relationships among Charge Storage, Electrical Conductivity, and Nanoscale Structure. <i>Chemistry of Materials</i> , 2011, 23, 4384-4393.	3.2	171
58	Ionic conductivity and activation energy for oxygen ion transport in superlattices – The multilayer system $\text{CSZ} (\text{ZrO}_2+\text{CaO})/\text{Al}_2\text{O}_3$. <i>Solid State Ionics</i> , 2007, 178, 67-76.	1.3	168
59	Stabilization of cubic lithium-stuffed garnets of the type $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ by addition of gallium. <i>Journal of Power Sources</i> , 2013, 225, 13-19.	4.0	167
60	A chemically driven insulator-metal transition in non-stoichiometric and amorphous gallium oxide. <i>Nature Materials</i> , 2008, 7, 391-398.	13.3	166
61	Bone formation induced by strontium modified calcium phosphate cement in critical-size metaphyseal fracture defects in ovariectomized rats. <i>Biomaterials</i> , 2013, 34, 8589-8598.	5.7	161
62	Thermodynamics and cell chemistry of room temperature sodium/sulfur cells with liquid and liquid/solid electrolyte. <i>Journal of Power Sources</i> , 2013, 243, 758-765.	4.0	160
63	How To Improve Capacity and Cycling Stability for Next Generation Li_2O Batteries: Approach with a Solid Electrolyte and Elevated Redox Mediator Concentrations. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7756-7765.	4.0	151
64	Suppression of atom motion and metal deposition in mixed ionic electronic conductors. <i>Nature Communications</i> , 2018, 9, 2910.	5.8	148
65	Phase Transformation Behavior and Stability of LiNiO_2 Cathode Material for Li -Ion Batteries Obtained from <i>In Situ</i> Gas Analysis and Operando X-Ray Diffraction. <i>ChemSusChem</i> , 2019, 12, 2240-2250.	3.6	146
66	Ionic liquids as green electrolytes for the electrodeposition of nanomaterials. <i>Green Chemistry</i> , 2007, 9, 549-553.	4.6	143
67	Microstructural Modeling of Composite Cathodes for All-Solid-State Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1626-1634.	1.5	139
68	<i>In Situ</i> Monitoring of Fast Li-Ion Conductor $\text{Li}_7\text{P}_3\text{S}_{11}$ Crystallization Inside a Hot-Press Setup. <i>Chemistry of Materials</i> , 2016, 28, 6152-6165.	3.2	138
69	Experimental Assessment of the Practical Oxidative Stability of Lithium Thiophosphate Solid Electrolytes. <i>Chemistry of Materials</i> , 2019, 31, 8328-8337.	3.2	138
70	Lithium-Metal Anode Instability of the Superionic Halide Solid Electrolytes and the Implications for Solid-State Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6718-6723.	7.2	137
71	Benchmarking Anode Concepts: The Future of Electrically Rechargeable Zinc-Air Batteries. <i>ACS Energy Letters</i> , 2019, 4, 1287-1300.	8.8	136
72	Influence of NCM Particle Cracking on Kinetics of Lithium-Ion Batteries with Liquid or Solid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100532.	1.3	134

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73	Tin-Assisted Synthesis of Li_2O by Molecular Beam Epitaxy. <i>Physical Review Applied</i> , 2017, 8, .	1.5	128
74	Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000089.	10.2	127
75	Influence of Carbon Additives on the Decomposition Pathways in Cathodes of Lithium Thiophosphate-Based All-Solid-State Batteries. <i>Chemistry of Materials</i> , 2020, 32, 6123-6136.	3.2	126
76	Modeling Effective Ionic Conductivity and Binder Influence in Composite Cathodes for All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12821-12833.	4.0	126
77	Evolution of Li_2O Growth and Its Effect on Kinetics of Li_2O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12083-12092.	4.0	125
78	Employing Plasmas as Gaseous Electrodes at the Free Surface of Ionic Liquids: Deposition of Nanocrystalline Silver Particles. <i>ChemPhysChem</i> , 2007, 8, 50-53.	1.0	123
79	From Liquid- to Solid-State Batteries: Ion Transfer Kinetics of Heteroionic Interfaces. <i>Electrochemical Energy Reviews</i> , 2020, 3, 221-238.	13.1	117
80	The Working Principle of a $\text{Li}_2\text{CO}_3/\text{LiNbO}_3$ Coating on NCM for Thiophosphate-Based All-Solid-State Batteries. <i>Chemistry of Materials</i> , 2021, 33, 2110-2125.	3.2	116
81	Interphase Formation of $\text{PEO}_{20}:\text{LiTFSI}:\text{Li}_6\text{PS}_5\text{Cl}$ Composite Electrolytes with Lithium Metal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11713-11723.	4.0	114
82	Observation of Chemomechanical Failure and the Influence of Cutoff Potentials in All-Solid-State Li_2S Batteries. <i>Chemistry of Materials</i> , 2019, 31, 2930-2940.	3.2	112
83	Understanding the fundamentals of redox mediators in Li_2O batteries: a case study on nitroxides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31769-31779.	1.3	111
84	Local Structural Investigations, Defect Formation, and Ionic Conductivity of the Lithium Ionic Conductor $\text{Li}_4\text{P}_2\text{S}_6$. <i>Chemistry of Materials</i> , 2016, 28, 8764-8773.	3.2	111
85	The Fast Charge Transfer Kinetics of the Lithium Metal Anode on the Garnet-Type Solid Electrolyte $\text{Li}_{6.25}\text{Al}_{0.25}\text{La}_3\text{Zr}_2\text{O}_{12}$. <i>Advanced Energy Materials</i> , 2020, 10, 2000945.	10.2	110
86	LiPON thin films with high nitrogen content for application in lithium batteries and electrochromic devices prepared by RF magnetron sputtering. <i>Solid State Ionics</i> , 2015, 282, 63-69.	1.3	108
87	One-or Two-Electron Transfer? The Ambiguous Nature of the Discharge Products in Sodium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4640-4649.	7.2	108
88	Investigation into Mechanical Degradation and Fatigue of High-Ni NCM Cathode Material: A Long-Term Cycling Study of Full Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 7375-7384.	2.5	106
89	In situ study of electrochemical activation and surface segregation of the SOFC electrode material $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3\pm\delta}$. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 751-758.	1.3	105
90	Gas Evolution in Operating Lithium-Ion Batteries Studied In Situ by Neutron Imaging. <i>Scientific Reports</i> , 2015, 5, 15627.	1.6	104

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91	Gas Evolution in All-Solid-State Battery Cells. <i>ACS Energy Letters</i> , 2018, 3, 2539-2543.	8.8	100
92	Pressure Dynamics in Metal–Oxygen (Metal–Air) Batteries: A Case Study on Sodium Superoxide Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1461-1471.	1.5	99
93	Synthesis, Structural Characterization, and Lithium Ion Conductivity of the Lithium Thiophosphate $\text{Li}_2\text{P}_2\text{S}_6$. <i>Inorganic Chemistry</i> , 2017, 56, 6681-6687.	1.9	98
94	Li_4PS_4 : A Li^+ Superionic Conductor Synthesized by a Solvent-Based Soft Chemistry Approach. <i>Chemistry of Materials</i> , 2017, 29, 1830-1835.	3.2	97
95	The Critical Role of Fluoroethylene Carbonate in the Gassing of Silicon Anodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2228-2233.	8.8	97
96	Editors’ Choice” Quantifying the Impact of Charge Transport Bottlenecks in Composite Cathodes of All-Solid-State Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 040537.	1.3	97
97	Influence of interface structure on mass transport in phase boundaries between different ionic materials. <i>Monatshefte für Chemie</i> , 2009, 140, 1069-1080.	0.9	96
98	Plasma electrochemistry in ionic liquids: deposition of copper nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1750-1755.	1.3	95
99	Properties of the Interphase Formed between Argyrodite-Type $\text{Li}_6\text{PS}_5\text{Cl}$ and Polymer-Based $\text{PEO}_{10}:\text{LiTFSI}$. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42186-42196.	4.0	95
100	In situ study of activation and de-activation of LSM fuel cell cathodes – Electrochemistry and surface analysis of thin-film electrodes. <i>Journal of Catalysis</i> , 2012, 294, 79-88.	3.1	92
101	Discharge and Charge Reaction Paths in Sodium–Oxygen Batteries: Does NaO_2 Form by Direct Electrochemical Growth or by Precipitation from Solution?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22778-22786.	1.5	91
102	Gas Evolution in $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4/\text{Graphite}$ Cells Studied In Operando by a Combination of Differential Electrochemical Mass Spectrometry, Neutron Imaging, and Pressure Measurements. <i>Analytical Chemistry</i> , 2016, 88, 2877-2883.	3.2	91
103	Effect of Low-Temperature Al_2O_3 ALD Coating on Ni-Rich Layered Oxide Composite Cathode on the Long-Term Cycling Performance of Lithium-Ion Batteries. <i>Scientific Reports</i> , 2019, 9, 5328.	1.6	91
104	Li_2ZrO_3 -Coated NCM622 for Application in Inorganic Solid-State Batteries: Role of Surface Carbonates in the Cycling Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57146-57154.	4.0	90
105	Online Continuous Flow Differential Electrochemical Mass Spectrometry with a Realistic Battery Setup for High-Precision, Long-Term Cycling Tests. <i>Analytical Chemistry</i> , 2015, 87, 5878-5883.	3.2	89
106	Solid-state batteries enter EV fray. <i>MRS Bulletin</i> , 2014, 39, 1046-1047.	1.7	87
107	Defect Chemistry of Oxide Nanomaterials with High Surface Area: Ordered Mesoporous Thin Films of the Oxygen Storage Catalyst CeO_2 – ZrO_2 . <i>ACS Nano</i> , 2013, 7, 2999-3013.	7.3	85
108	In-Depth Characterization of Lithium-Metal Surfaces with XPS and ToF-SIMS: Toward Better Understanding of the Passivation Layer. <i>Chemistry of Materials</i> , 2021, 33, 859-867.	3.2	82

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109	The Interface between Li _{6.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ and Liquid Electrolyte. <i>Joule</i> , 2020, 4, 101-108.	11.7	81
110	Nitrogen-doped carbon fibers and membranes by carbonization of electrospun poly(ionic liquid)s. <i>Polymer Chemistry</i> , 2011, 2, 1654.	1.9	79
111	The Role of Intragranular Nanopores in Capacity Fade of Nickel-Rich Layered Li(Ni _{1-x} Co _x Mn _y)O ₂ Cathode Materials. <i>ACS Nano</i> , 2019, 13, 10694-10704.	7.3	79
112	Room temperature, liquid-phase Al ₂ O ₃ surface coating approach for Ni-rich layered oxide cathode material. <i>Chemical Communications</i> , 2019, 55, 2174-2177.	2.2	79
113	Reversible Compositional Control of Oxide Surfaces by Electrochemical Potentials. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 40-44.	2.1	78
114	Guidelines for All-Solid-State Battery Design and Electrode Buffer Layers Based on Chemical Potential Profile Calculation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19968-19976.	4.0	77
115	Na ₃ Zr ₂ Si ₂ PO ₁₂ : A Stable Na ⁺ -Ion Solid Electrolyte for Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7427-7437.	2.5	77
116	Ionic Liquid-Derived Nitrogen-Enriched Carbon/Sulfur Composite Cathodes with Hierarchical Microstructure—A Step Toward Durable High-Energy and High-Performance Lithium—Sulfur Batteries. <i>Chemistry of Materials</i> , 2015, 27, 1674-1683.	3.2	76
117	On the gassing behavior of lithium-ion batteries with NCM523 cathodes. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2961-2967.	1.2	76
118	Molecular Surface Modification of NCM622 Cathode Material Using Organophosphates for Improved Li-Ion Battery Full-Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20487-20498.	4.0	76
119	Li ⁺ -Ion Dynamics in $\hat{1}$ -Li ₃ PS ₄ Observed by NMR: Local Hopping and Long-Range Transport. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15954-15965.	1.5	76
120	Correlating Transport and Structural Properties in Li _{1-x} Al _x Ge ₂ (PO ₄) ₃ (LAGP) Prepared from Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10935-10944.	4.0	75
121	Novel anion conductors—conductivity, thermodynamic stability and hydration of anion-substituted mayenite-type cage compounds C ₁₂ A ₇ :X (X = O, OH, Cl, F, CN, S, N). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6844-6857.	1.3	73
122	High electrical conductivity and high porosity in a Guest@MOF material: evidence of TCNQ ordering within Cu ₃ BTC ₂ micropores. <i>Chemical Science</i> , 2018, 9, 7405-7412.	3.7	73
123	Interfacial Stability of Phosphate-NASICON Solid Electrolytes in Ni-Rich NCM Cathode-Based Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23244-23253.	4.0	73
124	Analysis of Interfacial Effects in All-Solid-State Batteries with Thiophosphate Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9277-9291.	4.0	73
125	An <i>in situ</i> structural study on the synthesis and decomposition of LiNiO ₂ . <i>Journal of Materials Chemistry A</i> , 2020, 8, 1808-1820.	5.2	72
126	A mechanistic investigation of the Li ₁₀ GeP ₂ S ₁₂ LiNi _{1-x-y} CoxMnyO ₂ interface stability in all-solid-state lithium batteries. <i>Nature Communications</i> , 2021, 12, 6669.	5.8	72

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127	Linking Solid Electrolyte Degradation to Charge Carrier Transport in the Thiophosphate-Based Composite Cathode toward Solid-State Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2010620.	7.8	71
128	Charging sustainable batteries. <i>Nature Sustainability</i> , 2022, 5, 176-178.	11.5	70
129	Fair performance comparison of different carbon blacks in lithium-sulfur batteries with practical mass loadings – Simple design competes with complex cathode architecture. <i>Journal of Power Sources</i> , 2015, 296, 454-461.	4.0	69
130	Insights into the Chemical Nature and Formation Mechanisms of Discharge Products in Na ₂ O Batteries by Means of Operando X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8472-8481.	1.5	68
131	Kinetic versus Thermodynamic Stability of LLZO in Contact with Lithium Metal. <i>Chemistry of Materials</i> , 2020, 32, 10207-10215.	3.2	68
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