

# Jrgen Janek

## List of Publications by Citations

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317  
papers

21,808  
citations

74  
h-index

138  
g-index

335  
ext. papers

27,168  
ext. citations

9.3  
avg, IF

7.61  
L-index

#	Paper	IF	Citations
317	A rechargeable room-temperature sodium superoxide (NaO <sub>2</sub> ) battery. <i>Nature Materials</i> , <b>2013</b> , 12, 228-327	32.7	626
316	New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1945-1976	39.6	601
315	Direct Observation of the Interfacial Instability of the Fast Ionic Conductor Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> at the Lithium Metal Anode. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2400-2407	9.6	463
314	Room-temperature sodium-ion batteries: Improving the rate capability of carbon anode materials by templating strategies. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3342	35.4	460
313	Tuning Transition Metal Oxide-Sulfur Interactions for Long Life Lithium Sulfur Batteries: The "Goldilocks" Principle. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501636	21.8	448
312	Structure and dynamics of the fast lithium ion conductor "Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> ". <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 19378-92	3.6	446
311	Recent Progress and Perspective in Electrode Materials for K-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702384	21.8	428
310	Capacity Fade in Solid-State Batteries: Interphase Formation and Chemomechanical Processes in Nickel-Rich Layered Oxide Cathodes and Lithium Thiophosphate Solid Electrolytes. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5574-5582	9.6	413
309	TEMPO: a mobile catalyst for rechargeable Li-O <sub>2</sub> batteries. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 15054-64	16.4	390
308	Benchmarking the performance of all-solid-state lithium batteries. <i>Nature Energy</i> , <b>2020</b> , 5, 259-270	62.3	342
307	Degradation of NASICON-Type Materials in Contact with Lithium Metal: Formation of Mixed Conducting Interphases (MCI) on Solid Electrolytes. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 21064-21074	2.8	308
306	Chemo-mechanical expansion of lithium electrode materials on the route to mechanically optimized all-solid-state batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2142-2158	35.4	308
305	Influence of Lattice Polarizability on the Ionic Conductivity in the Lithium Superionic Argyrodites LiPSX (X = Cl, Br, I). <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10909-10918	16.4	304
304	Anisotropic Lattice Strain and Mechanical Degradation of High- and Low-Nickel NCM Cathode Materials for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3286-3294	3.8	303
303	Interphase formation on lithium solid electrolytes—An in situ approach to study interfacial reactions by photoelectron spectroscopy. <i>Solid State Ionics</i> , <b>2015</b> , 278, 98-105	3.3	287
302	Interphase formation and degradation of charge transfer kinetics between a lithium metal anode and highly crystalline Li <sub>7</sub> P <sub>3</sub> S <sub>11</sub> solid electrolyte. <i>Solid State Ionics</i> , <b>2016</b> , 286, 24-33	3.3	276
301	Toward a Fundamental Understanding of the Lithium Metal Anode in Solid-State Batteries—An Electrochemo-Mechanical Study on the Garnet-Type Solid Electrolyte LiAlLaZrO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14463-14477	9.5	265

300	Dynamic formation of a solid-liquid electrolyte interphase and its consequences for hybrid-battery concepts. <i>Nature Chemistry</i> , <b>2016</b> , 8, 426-34	17.6	251
299	Interfacial Processes and Influence of Composite Cathode Microstructure Controlling the Performance of All-Solid-State Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17835-17845 <sup>232</sup>	9.5	185
298	A comprehensive study on the cell chemistry of the sodium superoxide (NaO <sub>2</sub> ) battery. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11661-72	3.6	225
297	Physicochemical Concepts of the Lithium Metal Anode in Solid-State Batteries. <i>Chemical Reviews</i> , <b>2020</b> , 120, 7745-7794	68.1	196
296	There and Back Again-The Journey of LiNiO as a Cathode Active Material. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10434-10458	16.4	181
295	Lithium-Metal Growth Kinetics on LLZO Garnet-Type Solid Electrolytes. <i>Joule</i> , <b>2019</b> , 3, 2030-2049	27.8	180
294	Lithium metal electrode kinetics and ionic conductivity of the solid lithium ion conductors Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> and Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> TaxO <sub>12</sub> with garnet-type structure. <i>Journal of Power Sources</i> , <b>2012</b> , 206, 236-244	8.9	179
293	Electrochemical stability of non-aqueous electrolytes for sodium-ion batteries and their compatibility with Na(0.7)CoO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1987-98	3.6	175
292	Systematical electrochemical study on the parasitic shuttle-effect in lithium-sulfur-cells at different temperatures and different rates. <i>Journal of Power Sources</i> , <b>2014</b> , 259, 289-299	8.9	174
291	Toward silicon anodes for next-generation lithium ion batteries: a comparative performance study of various polymer binders and silicon nanopowders. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 7299-307	9.5	174
290	The critical role of lithium nitrate in the gas evolution of lithium-sulfur batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2603-2608	35.4	171
289	The Detrimental Effects of Carbon Additives in LiGePS-Based Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 35888-35896	9.5	169
288	On the Thermodynamics, the Role of the Carbon Cathode, and the Cycle Life of the Sodium Superoxide (NaO <sub>2</sub> ) Battery. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301863	21.8	163
287	(Electro)chemical expansion during cycling: monitoring the pressure changes in operating solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9929-9936	13	161
286	Lithium ion conductivity in Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> glasses: building units and local structure evolution during the crystallization of superionic conductors Li <sub>3</sub> PS <sub>4</sub> , Li <sub>7</sub> P <sub>3</sub> S <sub>11</sub> and Li <sub>4</sub> P <sub>2</sub> S <sub>7</sub> . <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18111-18119	13	159
285	Degradation Mechanisms at the LiGePS/LiCoO Cathode Interface in an All-Solid-State Lithium-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22226-22236	9.5	158
284	Comprehensive Investigation of the Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> /NaV <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> System by Operando High Resolution Synchrotron X-ray Diffraction. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3009-3020	9.6	153
283	Redox-active cathode interphases in solid-state batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22750-22760 <sup>2</sup>	15.3	152

282	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> , <b>2019</b> , 31, e1900985	24	152
281	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> , <b>2017</b> , 121, 26163-26171	3.8	148
280	Charge-Transfer-Induced Lattice Collapse in Ni-Rich NCM Cathode Materials during Delithiation. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24381-24388	3.8	148
279	Volume Changes of Graphite Anodes Revisited: A Combined Operando X-ray Diffraction and In Situ Pressure Analysis Study. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8829-8835	3.8	143
278	Thermodynamics and cell chemistry of room temperature sodium/sulfur cells with liquid and liquid/solid electrolyte. <i>Journal of Power Sources</i> , <b>2013</b> , 243, 758-765	8.9	142
277	Bone formation induced by strontium modified calcium phosphate cement in critical-size metaphyseal fracture defects in ovariectomized rats. <i>Biomaterials</i> , <b>2013</b> , 34, 8589-98	15.6	141
276	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> , <b>2019</b> , 31, 3745-3755	9.6	138
275	Interfacial Reactivity Benchmarking of the Sodium Ion Conductors NaPS and Sodium $\beta$ -Alumina for Protected Sodium Metal Anodes and Sodium All-Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 28216-28224	9.5	138
274	Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> Revisited: A High-Resolution Diffraction Study. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4238-4247	9.9	137
273	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> , <b>2013</b> , 225, 13-19	8.9	136
272	A chemically driven insulator-metal transition in non-stoichiometric and amorphous gallium oxide. <i>Nature Materials</i> , <b>2008</b> , 7, 391-8	27	136
271	Structural Insights and 3D Diffusion Pathways within the Lithium Superionic Conductor Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5905-5915	9.6	136
270	Impact of Cathode Material Particle Size on the Capacity of Bulk-Type All-Solid-State Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 992-996	20.1	134
269	How To Improve Capacity and Cycling Stability for Next Generation Li-O <sub>2</sub> Batteries: Approach with a Solid Electrolyte and Elevated Redox Mediator Concentrations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7756-65	9.5	130
268	On the Functionality of Coatings for Cathode Active Materials in Thiophosphate-Based All-Solid-State Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900626	21.8	125
267	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> , <b>2019</b> , 9, 1902568	21.8	124
266	Evolution of Li <sub>2</sub> O <sub>2</sub> growth and its effect on kinetics of Li-O <sub>2</sub> batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12083-92	9.5	117
265	Additional Sodium Insertion into Polyanionic Cathodes for Higher-Energy Na-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700514	21.8	116

264	Employing plasmas as gaseous electrodes at the free surface of ionic liquids: deposition of nanocrystalline silver particles. <i>ChemPhysChem</i> , <b>2007</b> , 8, 50-3	3.2	114
263	In Situ Monitoring of Fast Li-Ion Conductor Li7P3S11 Crystallization Inside a Hot-Press Setup. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6152-6165	9.6	113
262	Origin of Carbon Dioxide Evolved during Cycling of Nickel-Rich Layered NCM Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38892-38899	9.5	111
261	Understanding the fundamentals of redox mediators in Li-O <sub>2</sub> batteries: a case study on nitroxides. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 31769-79	3.6	99
260	In situ study of electrochemical activation and surface segregation of the SOFC electrode material La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-δ</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 751-8	3.6	98
259	One- or Two-Electron Transfer? The Ambiguous Nature of the Discharge Products in Sodium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4640-9	16.4	96
258	Stabilizing Effect of a Hybrid Surface Coating on a Ni-Rich NCM Cathode Material in All-Solid-State Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9664-9672	9.6	94
257	A New Strategy for High-Voltage Cathodes for K-Ion Batteries: Stoichiometric KVPO <sub>4</sub> F. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801591	21.8	90
256	Pressure Dynamics in Metal/Oxygen (Metal/Air) Batteries: A Case Study on Sodium Superoxide Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1461-1471	3.8	87
255	Experimental Assessment of the Practical Oxidative Stability of Lithium Thiophosphate Solid Electrolytes. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 8328-8337	9.6	86
254	Discharge and Charge Reaction Paths in Sodium/Oxygen Batteries: Does NaO <sub>2</sub> Form by Direct Electrochemical Growth or by Precipitation from Solution?. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 22778-22786	3.8	85
253	Benchmarking Anode Concepts: The Future of Electrically Rechargeable Zinc/Air Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1287-1300	20.1	81
252	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> , <b>2012</b> , 294, 79-88	7.3	81
251	Microstructural Modeling of Composite Cathodes for All-Solid-State Batteries. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1626-1634	3.8	81
250	Phase Transformation Behavior and Stability of LiNiO Cathode Material for Li-Ion Batteries Obtained from In Situ Gas Analysis and Operando X-Ray Diffraction. <i>ChemSusChem</i> , <b>2019</b> , 12, 2240-2250	8.3	79
249	Design Strategies to Enable the Efficient Use of Sodium Metal Anodes in High-Energy Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903891	24	79
248	Li <sub>4</sub> PS <sub>4</sub> I: A Li <sup>+</sup> Superionic Conductor Synthesized by a Solvent-Based Soft Chemistry Approach. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1830-1835	9.6	76
247	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> , <b>2015</b> , 282, 63-69	3.3	76

246	The Critical Role of Fluoroethylene Carbonate in the Gassing of Silicon Anodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2228-2233	20.1	76
245	Nitrogen-doped carbon fibers and membranes by carbonization of electrospun poly(ionic liquid)s. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 1654	4.9	76
244	Local Structural Investigations, Defect Formation, and Ionic Conductivity of the Lithium Ionic Conductor Li <sub>4</sub> P <sub>2</sub> S <sub>6</sub> . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8764-8773	9.6	74
243	Multiple phases in the $\text{LiVPO}_4\text{O}$ - $\text{LiVPO}_4\text{O}$ - $\text{Li}_2\text{VPO}_4\text{O}$ system: a combined solid state electrochemistry and diffraction structural study. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10182-10192 <sup>13</sup>		73
242	Gas Evolution in Operating Lithium-Ion Batteries Studied In Situ by Neutron Imaging. <i>Scientific Reports</i> , <b>2015</b> , 5, 15627	4.9	73
241	Gas Evolution in LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> /Graphite Cells Studied In Operando by a Combination of Differential Electrochemical Mass Spectrometry, Neutron Imaging, and Pressure Measurements. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 2877-83	7.8	72
240	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> , <b>2015</b> , 27, 1674-1683	9.6	72
239	Defect chemistry of oxide nanomaterials with high surface area: ordered mesoporous thin films of the oxygen storage catalyst CeO <sub>2</sub> -ZrO <sub>2</sub> . <i>ACS Nano</i> , <b>2013</b> , 7, 2999-3013	16.7	72
238	Reversible Compositional Control of Oxide Surfaces by Electrochemical Potentials. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 40-44	6.4	71
237	Observation of Chemomechanical Failure and the Influence of Cutoff Potentials in All-Solid-State LiS Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2930-2940	9.6	69
236	Synthesis, Structural Characterization, and Lithium Ion Conductivity of the Lithium Thiophosphate LiPS. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 6681-6687	5.1	67
235	Effect of Low-Temperature AlO ALD Coating on Ni-Rich Layered Oxide Composite Cathode on the Long-Term Cycling Performance of Lithium-Ion Batteries. <i>Scientific Reports</i> , <b>2019</b> , 9, 5328	4.9	66
234	Online Continuous Flow Differential Electrochemical Mass Spectrometry with a Realistic Battery Setup for High-Precision, Long-Term Cycling Tests. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5878-83	7.8	66
233	Polycrystalline and Single Crystalline NCM Cathode Materials: Quantifying Particle Cracking, Active Surface Area, and Lithium Diffusion. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003400	21.8	66
232	Modeling Effective Ionic Conductivity and Binder Influence in Composite Cathodes for All-Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 12821-12833	9.5	65
231	Gas Evolution in All-Solid-State Battery Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2539-2543	20.1	65
230	Fast Charging of Lithium-Ion Batteries: A Review of Materials Aspects. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101126	21.8	65
229	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> , <b>2015</b> , 296, 454-461	8.9	64



228	Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000089	21.8	64
227	Novel anion conductors--conductivity, thermodynamic stability and hydration of anion-substituted mayenite-type cage compounds C12A7:X (X = O, OH, Cl, F, CN, S, N). <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 6844-57	3.6	63
226	Solid-state batteries enter EV fray. <i>MRS Bulletin</i> , <b>2014</b> , 39, 1046-1047	3.2	63
225	On the influence of strain on ion transport: microstructure and ionic conductivity of nanoscale YSZ Sc2O3 multilayers. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 14596-608	3.6	63
224	Influence of NCM Particle Cracking on Kinetics of Lithium-Ion Batteries with Liquid or Solid Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 100532	3.9	61
223	On the gassing behavior of lithium-ion batteries with NCM523 cathodes. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 2961-2967	2.6	58
222	Oxide nitrides: From oxides to solids with mobile nitrogen ions. <i>Progress in Solid State Chemistry</i> , <b>2009</b> , 37, 81-131	8	58
221	The interplay between thermodynamics and kinetics in the solid-state synthesis of layered oxides. <i>Nature Materials</i> , <b>2020</b> , 19, 1088-1095	27	57
220	High Rate Performance for Carbon-Coated Na3V2(PO4)2F3 in Na-Ion Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1800215	12.8	57
219	New Insights into the Instability of Discharge Products in Na-O2 Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20120-7	9.5	56
218	Molecular Surface Modification of NCM622 Cathode Material Using Organophosphates for Improved Li-Ion Battery Full-Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 20487-20498	9.5	56
217	From Liquid- to Solid-State Batteries: Ion Transfer Kinetics of Heteroionic Interfaces. <i>Electrochemical Energy Reviews</i> , <b>2020</b> , 3, 221-238	29.3	55
216	High electrical conductivity and high porosity in a Guest@MOF material: evidence of TCNQ ordering within CuBTC micropores. <i>Chemical Science</i> , <b>2018</b> , 9, 7405-7412	9.4	55
215	In situ and operando atomic force microscopy of high-capacity nano-silicon based electrodes for lithium-ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 14048-56	7.7	55
214	Li+-Ion Dynamics in Li3PS4 Observed by NMR: Local Hopping and Long-Range Transport. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 15954-15965	3.8	55
213	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> , <b>2019</b> , 2, 7375-7384	6.1	54
212	Interphase Formation of PEO:LiTFSI-LiPSCl Composite Electrolytes with Lithium Metal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 11713-11723	9.5	54
211	Li-Rich Li1+xMn2-xO4 Spinel Electrode Materials: An Operando Neutron Diffraction Study during Li+ Extraction/Insertion. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 25947-25955	3.8	54

210	Room temperature, liquid-phase ALO surface coating approach for Ni-rich layered oxide cathode material. <i>Chemical Communications</i> , <b>2019</b> , 55, 2174-2177	5.8	53
209	Reaction Mechanism and Surface Film Formation of Conversion Materials for Lithium- and Sodium-Ion Batteries: An XPS Case Study on Sputtered Copper Oxide (CuO) Thin Film Model Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 1400-1414	3.8	53
208	Simple cathode design for Li <sup>+</sup> batteries: cell performance and mechanistic insights by in operando X-ray diffraction. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18765-71	3.6	53
207	Guidelines for All-Solid-State Battery Design and Electrode Buffer Layers Based on Chemical Potential Profile Calculation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19968-19976	9.5	52
206	Correlating Transport and Structural Properties in LiAl Ge(PO) (LAGP) Prepared from Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10935-10944	9.5	52
205	Influence of Carbon Additives on the Decomposition Pathways in Cathodes of Lithium Thiophosphate-Based All-Solid-State Batteries. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6123-6136	9.6	51
204	Spectroscopic characterization of lithium thiophosphates by XPS and XAS - a model to help monitor interfacial reactions in all-solid-state batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 20088-20095	3.6	51
203	A New Null Matrix Electrochemical Cell for Rietveld Refinements of In-Situ or Operando Neutron Powder Diffraction Data. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A2176-A2183	3.9	49
202	Properties of the Interphase Formed between Argyrodite-Type LiPSCl and Polymer-Based PEO:LiTFSI. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42186-42196	9.5	48
201	Towards zinc-oxygen batteries with enhanced cycling stability: The benefit of anion-exchange ionomer for zinc sponge anodes. <i>Journal of Power Sources</i> , <b>2018</b> , 395, 195-204	8.9	48
200	The Role of Intragranular Nanopores in Capacity Fade of Nickel-Rich Layered Li(NiCoMn)O Cathode Materials. <i>ACS Nano</i> , <b>2019</b> , 13, 10694-10704	16.7	47
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188	Electrochemical Cross-Talk Leading to Gas Evolution and Capacity Fade in LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> /Graphite Full-Cells. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 211-216	3.8	41
187	Amorphous and highly nonstoichiometric titania (TiO <sub>x</sub> ) thin films close to metal-like conductivity. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6631	13	41
186	Analysis of Interfacial Effects in All-Solid-State Batteries with Thiophosphate Solid Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9277-9291	9.5	40
185	Preparation and electrical properties of garnet-type Li <sub>6</sub> BaLa <sub>2</sub> Ta <sub>2</sub> O <sub>12</sub> lithium solid electrolyte thin films prepared by pulsed laser deposition. <i>Solid State Ionics</i> , <b>2014</b> , 258, 1-7	3.3	39
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