

# Jrgen Janek

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The LiNiO <sub>2</sub> Cathode Active Material: A Comprehensive Study of Calcination Conditions and their Correlation with Physicochemical Properties Part II. Morphology. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 020529	3.9	3
316	Defect Chemistry of Individual Grains with and without Grain Boundaries of Al-Doped Ceria Determined Using Well-Defined Microelectrodes. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 2737-2746	3.8	0
315	Single step synthesis of W-modified LiNiO <sub>2</sub> using an ammonium tungstate flux. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 7841-7855	13	1
314	Tracing Low Amounts of Mg in the Doped Cathode Active Material LiNiO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 030540	3.9	2
313	Single versus poly-crystalline layered oxide cathode materials for solid-state battery applications - a short review article. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 31, 100877	7.2	7
312	Storage of Lithium Metal: The Role of the Native Passivation Layer for the Anode Interface Resistance in Solid State Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 12798-12807	6.1	9
311	A mechanistic investigation of the LiGePS LiNiCoMnO interface stability in all-solid-state lithium batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 6669	17.4	13
310	Understanding the formation of antiphase boundaries in layered oxide cathode materials and their evolution upon electrochemical cycling. <i>Matter</i> , <b>2021</b> ,	12.7	3
309	Reaction of LiAlTi(PO) and LiNiCoMnO in Co-Sintered Composite Cathodes for Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47488-47498	9.5	3
308	Hybridization of carbon nanotube tissue and MnO <sub>2</sub> as a generic advanced air cathode in metal-air batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 514, 230597	8.9	3
307	Synthesis and Postprocessing of Single-Crystalline LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> for Solid-State Lithium-Ion Batteries with High Capacity and Long Cycling Stability. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 2624-2634	9.6	15
306	Working Principle of an Ionic Liquid Interlayer During Pressureless Lithium Stripping on Li <sub>6.25</sub> Al <sub>0.25</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> (LLZO) Garnet-Type Solid Electrolyte. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1145-1155	5.6	4
305	Effect of surface carbonates on the cyclability of LiNbO-coated NCM622 in all-solid-state batteries with lithium thiophosphate electrolytes. <i>Scientific Reports</i> , <b>2021</b> , 11, 5367	4.9	7
304	Operando Characterization Techniques for All-Solid-State Lithium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100004	1.6	18
303	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
302	The Working Principle of a Li <sub>2</sub> CO <sub>3</sub> /LiNbO <sub>3</sub> Coating on NCM for Thiophosphate-Based All-Solid-State Batteries. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 2110-2125	9.6	36
301	Editors' Choice: Quantifying the Impact of Charge Transport Bottlenecks in Composite Cathodes of All-Solid-State Batteries. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 040537	3.9	31

300	Influence of Crystallinity of Lithium Thiophosphate Solid Electrolytes on the Performance of Solid-State Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100654	21.8	25
299	Operando analysis of the molten Li LLZO interface: Understanding how the physical properties of Li affect the critical current density. <i>Matter</i> , <b>2021</b> , 4, 1947-1961	12.7	17
298	Design-of-experiments-guided optimization of slurry-cast cathodes for solid-state batteries. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100465	6.1	8
297	High Performance All-Solid-State Batteries with a Ni-Rich NCM Cathode Coated by Atomic Layer Deposition and Lithium Thiophosphate Solid Electrolyte. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 7338-7345	6.1	13
296	Influence of synthesis parameters on crystallization behavior and ionic conductivity of the LiPSI solid electrolyte. <i>Scientific Reports</i> , <b>2021</b> , 11, 14073	4.9	4
295	A robust technique to image all elements in LiNiO <sub>2</sub> cathode active material by 4D-STEM. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1446-1449	0.5	
294	Understanding the Transport of Atmospheric Gases in Liquid Electrolytes for Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 070504	3.9	0
293	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solid-State Batteries with Long Cycle Life. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101370	21.8	20
292	Lithium-Metal Anode Instability of the Superionic Halide Solid Electrolytes and the Implications for Solid-State Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6718-6723	16.4	47
291	Lithium-Metal Anode Instability of the Superionic Halide Solid Electrolytes and the Implications for Solid-State Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6792-6797	3.6	13
290	Analysis of Charge Carrier Transport Toward Optimized Cathode Composites for All-Solid-State LiS Batteries. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 183-194	5.6	22
289	A Rapid and Facile Approach for the Recycling of High-Performance LiNi Co Mn O Active Materials. <i>ChemSusChem</i> , <b>2021</b> , 14, 441-448	8.3	4
288	Impedance Analysis of NCM Cathode Materials: Electronic and Ionic Partial Conductivities and the Influence of Microstructure. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1335-1345	6.1	11
287	Atomistic understanding of the LiNiO <sub>2</sub> /NiO <sub>2</sub> phase diagram from experimentally guided lattice models. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14928-14940	13	9
286	In-Depth Characterization of Lithium-Metal Surfaces with XPS and ToF-SIMS: Toward Better Understanding of the Passivation Layer. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 859-867	9.6	24
285	Improved Cycling Performance of High-Nickel NMC by Dry Powder Coating with Nanostructured Fumed Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , and ZrO <sub>2</sub> : A Comparison. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1003-1017	5.6	10
284	Facile Dry Coating Method of High-Nickel Cathode Material by Nanostructured Fumed Alumina (Al <sub>2</sub> O <sub>3</sub> ) Improving the Performance of Lithium-Ion Batteries. <i>Energy Technology</i> , <b>2021</b> , 9, 2100028	3.5	6
283	On the Additive Microstructure in Composite Cathodes and Alumina-Coated Carbon Microwires for Improved All-Solid-State Batteries. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1380-1393	9.6	12

282	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> , <b>2021</b> , 31, 2010620	15.6	24
281	Analyzing Nanometer-Thin Cathode Particle Coatings for Lithium-Ion Batteries—The Example of TiO <sub>2</sub> on NCM622. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 7168-7181	6.1	1
280	Fast Charging of Lithium-Ion Batteries: A Review of Materials Aspects. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101126	21.8	65
279	Singlet Oxygen in Electrochemical Cells: A Critical Review of Literature and Theory. <i>Chemical Reviews</i> , <b>2021</b> , 121, 12445-12464	68.1	9
278	Stabilizing the Cathode/Electrolyte Interface Using a Dry-Processed Lithium Titanate Coating for All-Solid-State Batteries. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6713-6723	9.6	4
277	Cycling Performance and Limitations of LiNiO <sub>2</sub> in Solid-State Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 3020-3028	20.28	11
276	Increased Performance Improvement of Lithium-Ion Batteries by Dry Powder Coating of High-Nickel NMC with Nanostructured Fumed Ternary Lithium Metal Oxides. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8832-8848	6.1	3
275	Understanding the Impact of Microstructure on Charge Transport in Polycrystalline Materials Through Impedance Modelling. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 090516	3.9	4
274	Influence of the PON structural units on the formation energies and transport properties of lithium phosphorus oxynitride: a DFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 22567-22588	3.6	1
273	Monitoring of Thermally Induced Effects in Nickel-Rich Layered Oxide Cathode Materials at the Atomic Level. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57047-57054	9.5	6
272	LiZrO-Coated NCM622 for Application in Inorganic Solid-State Batteries: Role of Surface Carbonates in the Cycling Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57146-57154	9.5	37
271	Nonlithium Aprotic Metal/Oxygen Batteries Using Na, K, Mg, or Ca as Metal Anode <b>2020</b> , 1-29		1
270	Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000089	21.8	64
269	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
268	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
267	The Sound of Batteries: An Operando Acoustic Emission Study of the LiNiO <sub>2</sub> Cathode in LiIon Cells. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 1021-1027	5.6	6
266	Na <sub>3</sub> Zr <sub>2</sub> Si <sub>2</sub> PO <sub>12</sub> : A Stable Na <sup>+</sup> -Ion Solid Electrolyte for Solid-State Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 7427-7437	6.1	31
265	The Fast Charge Transfer Kinetics of the Lithium Metal Anode on the Garnet-Type Solid Electrolyte Li <sub>6.25</sub> Al <sub>0.25</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> . <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000945	21.8	44

264	Reversible Capacity Loss of LiCoO <sub>2</sub> Thin Film Electrodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6065-6071	11	4
263	The effect of gallium substitution on the structure and electrochemical performance of LiNiO <sub>2</sub> in lithium-ion batteries. <i>Materials Advances</i> , <b>2020</b> , 1, 639-647	3.3	14
262	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
261	Benchmarking the performance of all-solid-state lithium batteries. <i>Nature Energy</i> , <b>2020</b> , 5, 259-270	62.3	342
260	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
259	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
258	Kinetic Limitations in Cycled Nickel-Rich NCM Cathodes and Their Effect on the Phase Transformation Behavior. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2821-2827	6.1	13
257	Incorporating Diamondoids as Electrolyte Additive in the Sodium Metal Anode to Mitigate Dendrite Growth. <i>ChemSusChem</i> , <b>2020</b> , 13, 2661-2670	8.3	12
256	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
255	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
254	Tailoring Dihydroxyphthalazines to Enable Their Stable and Efficient Use in the Catholyte of Aqueous Redox Flow Batteries. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3427-3438	9.6	13
253	Gas Evolution in Lithium-Ion Batteries: Solid versus Liquid Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 20462-20468	9.5	31
252	The Interface between Li <sub>6.5</sub> La <sub>3</sub> Zr <sub>1.5</sub> Ta <sub>0.5</sub> O <sub>12</sub> and Liquid Electrolyte. <i>Joule</i> , <b>2020</b> , 4, 101-108	27.8	45
251	High-conductivity free-standing Li <sub>6</sub> PS <sub>5</sub> Cl/poly(vinylidene difluoride) composite solid electrolyte membranes for lithium-ion batteries. <i>Journal of Materiomics</i> , <b>2020</b> , 6, 70-76	6.7	19
250	An in situ structural study on the synthesis and decomposition of LiNiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1808-1820	13	30
249	Rational Design of Quasi-Zero-Strain NCM Cathode Materials for Minimizing Volume Change Effects in All-Solid-State Batteries <b>2020</b> , 2, 84-88		36
248	Enumeration as a Tool for Structure Solution: A Materials Genomic Approach to Solving the Cation-Ordered Structure of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8981-8992	9.6	7
247	Macroscopic Displacement Reaction of Copper Sulfide in Lithium Solid-State Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002394	21.8	13

246	From LiNiO <sub>2</sub> to Li <sub>2</sub> NiO <sub>3</sub> : Synthesis, Structures and Electrochemical Mechanisms in Li-Rich Nickel Oxides. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9211-9227	9.6	11
245	Surface Modification Strategies for Improving the Cycling Performance of Ni-Rich Cathode Materials. <i>European Journal of Inorganic Chemistry</i> , <b>2020</b> , 2020, 3117-3130	2.3	21
244	Kinetic versus Thermodynamic Stability of LLZO in Contact with Lithium Metal. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 10207-10215	9.6	27
243	And Yet It Moves: LiNiO <sub>2</sub> , a Dynamic Jahn-Teller System. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 10096-10103	9.6	5
242	Physicochemical Concepts of the Lithium Metal Anode in Solid-State Batteries. <i>Chemical Reviews</i> , <b>2020</b> , 120, 7745-7794	68.1	196
241	The Sound of Batteries: An Operando Acoustic Emission Study of the LiNiO <sub>2</sub> Cathode in Li bn Cells. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 965-965	5.6	1
240	Between Liquid and All Solid: A Prospect on Electrolyte Future in Lithium-Ion Batteries for Electric Vehicles. <i>Energy Technology</i> , <b>2020</b> , 8, 2000580	3.5	13
239	Investigations into the superionic glass phase of Li <sub>4</sub> PS <sub>4</sub> I for improving the stability of high-loading all-solid-state batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 3953-3960	6.8	8
238	The Formation of the Solid/Liquid Electrolyte Interphase (SLEI) on NASICON-Type Glass Ceramics and LiPON. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000380	4.6	9
237	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
236	Pathways to Triplet or Singlet Oxygen during the Dissociation of Alkali Metal Superoxides: Insights by Multireference Calculations of Molecular Model Systems. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 2395-2404	4.8	7
235	Visualization of Light Elements using 4D STEM: The Layered-to-Rock Salt Phase Transition in LiNiO <sub>2</sub> Cathode Material. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001026	21.8	22
234	Indirect state-of-charge determination of all-solid-state battery cells by X-ray diffraction. <i>Chemical Communications</i> , <b>2019</b> , 55, 11223-11226	5.8	21
233	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
232	LATP and LiCoPO <sub>4</sub> thin film preparation illustrating interfacial issues on the way to all-phosphate SSBs. <i>Solid State Ionics</i> , <b>2019</b> , 342, 115054	3.3	13
231	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
230	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
229	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

228	Interfacial Stability of Phosphate-NASICON Solid Electrolytes in Ni-Rich NCM Cathode-Based Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23244-23253	9.5	38
227	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
226	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
225	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
224	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
223	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
222	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
221	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
220	Computational Investigation and Experimental Realization of Disordered High-Capacity Li-Ion Cathodes Based on Ni Redox. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2431-2442	9.6	30
219	Amorphous versus Crystalline Li <sub>3</sub> PS <sub>4</sub> : Local Structural Changes during Synthesis and Li Ion Mobility. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10280-10290	3.8	33
218	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
217	Observation of Chemomechanical Failure and the Influence of Cutoff Potentials in All-Solid-State Li <sub>8</sub> Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2930-2940	9.6	69
216	Unraveling the Formation Mechanism of Solid-Liquid Electrolyte Interphases on LiPON Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 9539-9547	9.5	18
215	Charge Transport in Single NCM Cathode Active Material Particles for Lithium-Ion Batteries Studied under Well-Defined Contact Conditions. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2117-2123	20.1	24
214	In Situ Studies for Understanding Intragranular Nanopore Evolution in Ni-rich Layered Oxide Cathode Material. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 2032-2033	0.5	
213	Lithium-Metal Growth Kinetics on LLZO Garnet-Type Solid Electrolytes. <i>Joule</i> , <b>2019</b> , 3, 2030-2049	27.8	180
212	Diffusion Limitation of Lithium Metal and LiMg 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
211	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

210	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
209	High Rate Performance for Carbon-Coated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> in Na-Ion Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1800215	12.8	57
208	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
207	Hin und zurück Die Entwicklung von LiNiO <sub>2</sub> als Kathodenaktivmaterial. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 10542-10569	3.6	11
206	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
205	Homogeneous Coating with an Anion-Exchange Ionomer Improves the Cycling Stability of Secondary Batteries with Zinc Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8640-8648	9.5	45
204	Structural analysis and electrical characterization of cation-substituted lithium ion conductors Li <sub>1-x</sub> Ti <sub>1-x</sub> M <sub>x</sub> OPO <sub>4</sub> (M = Nb, Ta, Sb). <i>Solid State Ionics</i> , <b>2018</b> , 319, 170-179	3.3	2
203	Artificial Composite Anode Comprising High-Capacity Silicon and Carbonaceous Nanostructures for Long Cycle Life Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , <b>2018</b> , 1, 27-32	5.6	6
202	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
201	Ag <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> , a new compound obtained by Ag <sup>+</sup> /Na <sup>+</sup> ion exchange into the Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> framework. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10340-10347	13	7
200	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
199	Platinum microelectrodes on gadolinia doped ceria single crystals - bulk properties and electrode kinetics. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 8294-8301	3.6	5
198	Quest for Organic Active Materials for Redox Flow Batteries: 2,3-Diaza-anthraquinones and Their Electrochemical Properties. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 762-774	9.6	34
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196	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
195	Li Ion Conductors with Adamantane-Type Nitridophosphate Anions [Li <sub>3</sub> P <sub>2</sub> N] and [Li <sub>3</sub> P <sub>2</sub> NX] with X=Cl, Br. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 196-205	4.8	17
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179	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
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90	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
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83	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
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80	Evolution of $\text{Li}_2\text{O}_2$ 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
79	Preparation and electrical properties of garnet-type $\text{Li}_6\text{BaLa}_2\text{Ta}_2\text{O}_{12}$ lithium solid electrolyte thin films prepared by pulsed laser deposition. <i>Solid State Ionics</i> , <b>2014</b> , 258, 1-7	3.3	39
78	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
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74	Solid-state batteries enter EV fray. <i>MRS Bulletin</i> , <b>2014</b> , 39, 1046-1047	3.2	63
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