## Felix H Richter

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Instability of the Li <sub>7</sub> SiPS <sub>8</sub> Solid Electrolyte at the Lithium Metal Anode and Interphase Formation. Chemistry of Materials, 2022, 34, 3659-3669.	6.7	12
2	Increasing the Pressureâ€Free Stripping Capacity of the Lithium Metal Anode in Solidâ€Stateâ€Batteries by Carbon Nanotubes. Advanced Energy Materials, 2022, 12, .	19.5	21
3	Sodium All-Solid-State Batteries and the Electrolyte Question. ECS Meeting Abstracts, 2022, MA2022-01, 99-99.	0.0	0
4	Analysis of the Interphase Formation of Thiophosphate Solid Electrolytes and the Lithium Metal Anode in Solid-State Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 208-208.	0.0	0
5	Interfacial challenges for all-solid-state batteries based on sulfide solid electrolytes. Journal of Materiomics, 2021, 7, 209-218.	5.7	82
6	The role of polymers in lithium solid-state batteries with inorganic solid electrolytes. Journal of Materials Chemistry A, 2021, 9, 18701-18732.	10.3	47
7	On the Additive Microstructure in Composite Cathodes and Alumina-Coated Carbon Microwires for Improved All-Solid-State Batteries. Chemistry of Materials, 2021, 33, 1380-1393.	6.7	38
8	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. Chemistry of Materials, 2021, 33, 2624-2634.	6.7	38
9	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‶ype Solid Electrolyte. Batteries and Supercaps, 2021, 4, 1145-1155.	4.7	23
10	Polycrystalline and Single Crystalline NCM Cathode Materials—Quantifying Particle Cracking, Active Surface Area, and Lithium Diffusion. Advanced Energy Materials, 2021, 11, 2003400.	19.5	237
11	Editors' Choice—Quantifying the Impact of Charge Transport Bottlenecks in Composite Cathodes of All-Solid-State Batteries. Journal of the Electrochemical Society, 2021, 168, 040537.	2.9	97
12	Influence of Crystallinity of Lithium Thiophosphate Solid Electrolytes on the Performance of Solid‣tate Batteries. Advanced Energy Materials, 2021, 11, 2100654.	19.5	64
13	Editors' Choice—Quantification of the Impact of Chemo-Mechanical Degradation on the Performance and Cycling Stability of NCM-Based Cathodes in Solid-State Li-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 070546.	2.9	22
14	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solidâ€ <b>S</b> tate Batteries with Long Cycle Life. Advanced Energy Materials, 2021, 11, 2101370.	19.5	56
15	The Interface between Li6.5La3Zr1.5Ta0.5O12 and Liquid Electrolyte. Joule, 2020, 4, 101-108.	24.0	81
16	Macroscopic Displacement Reaction of Copper Sulfide in Lithium Solidâ€State Batteries. Advanced Energy Materials, 2020, 10, 2002394.	19.5	37
17	Physicochemical Concepts of the Lithium Metal Anode in Solid-State Batteries. Chemical Reviews, 2020, 120, 7745-7794.	47.7	468
18	From Liquid- to Solid-State Batteries: Ion Transfer Kinetics of Heteroionic Interfaces. Electrochemical Energy Reviews, 2020, 3, 221-238.	25.5	117

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19	Benchmarking the performance of all-solid-state lithium batteries. Nature Energy, 2020, 5, 259-270.	39.5	662
20	Influence of Carbon Additives on the Decomposition Pathways in Cathodes of Lithium Thiophosphate-Based All-Solid-State Batteries. Chemistry of Materials, 2020, 32, 6123-6136.	6.7	126
21	Analysis of Interfacial Effects in All-Solid-State Batteries with Thiophosphate Solid Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 9277-9291.	8.0	73
22	Interphase Formation of PEO <sub>20</sub> :LiTFSI–Li <sub>6</sub> PS <sub>5</sub> Cl Composite Electrolytes with Lithium Metal. ACS Applied Materials & Interfaces, 2020, 12, 11713-11723.	8.0	114
23	Lithium-Metal Growth Kinetics on LLZO Garnet-Type Solid Electrolytes. Joule, 2019, 3, 2030-2049.	24.0	292
24	Properties of the Interphase Formed between Argyrodite-Type Li <sub>6</sub> PS <sub>5</sub> Cl and Polymer-Based PEO <sub>10</sub> :LiTFSI. ACS Applied Materials & Interfaces, 2019, 11, 42186-42196.	8.0	95
25	Amorphous versus Crystalline Li <sub>3</sub> PS <sub>4</sub> : Local Structural Changes during Synthesis and Li Ion Mobility. Journal of Physical Chemistry C, 2019, 123, 10280-10290.	3.1	62
26	Hybrid electrolytes with 3D bicontinuous ordered ceramic and polymer microchannels for all-solid-state batteries. Energy and Environmental Science, 2018, 11, 185-201.	30.8	252
27	Li <sup>+</sup> -lon Dynamics in β-Li <sub>3</sub> PS <sub>4</sub> Observed by NMR: Local Hopping and Long-Range Transport. Journal of Physical Chemistry C, 2018, 122, 15954-15965.	3.1	76