## Juergen 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.

462 24,834 78 141 h-index g-index citations papers 7.67 505 30,451 7.7 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
462	The LiNiO2 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
461	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	O
460	Single step synthesis of W-modified LiNiO2 using an ammonium tungstate flux. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 7841-7855	13	1
459	Tracing Low Amounts of Mg in the Doped Cathode Active Material LiNiO2. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 030540	3.9	2
458	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
457	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
456	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
455	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
454	Reaction of LiAlTi(PO) and LiNiCoMnO in Co-Sintered Composite Cathodes for Solid-State Batteries. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2021</b> , 13, 47488-47498	9.5	3
453	Hybridization of carbon nanotube tissue and MnO2 as a generic advanced air cathode in metallir batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 514, 230597	8.9	3
452	Conceptual Framework for Dislocation-Modified Conductivity in Oxide Ceramics Deconvoluting Mesoscopic Structure, Core, and Space Charge Exemplified for SrTiO. <i>ACS Nano</i> , <b>2021</b> , 15, 9355-9367	16.7	17
451	Synthesis and Postprocessing of Single-Crystalline LiNi0.8Co0.15Al0.05O2 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
45 <sup>0</sup>	Working Principle of an Ionic Liquid Interlayer During Pressureless Lithium Stripping on Li6.25Al0.25La3Zr2O12 (LLZO) Garnet-Type Solid Electrolyte. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1145-115	5 <del>5</del> .6	4
449	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
448	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
447	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
446	The Working Principle of a Li2CO3/LiNbO3 Coating on NCM for Thiophosphate-Based All-Solid-State Batteries. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 2110-2125	9.6	36

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445	EditorsIChoiceQuantifying 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	
444	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	
443	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	
442	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	
441	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, 7338-73	45 <sup>1</sup>	13	
440	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	
439	A robust technique to image all elements in LiNiO2 cathode active material by 4D-STEM. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1446-1449	0.5		
438	Understanding the Transport of Atmospheric Gases in Liquid Electrolytes for LithiumAir Batteries. Journal of the Electrochemical Society, <b>2021</b> , 168, 070504	3.9	Ο	
437	Structural Investigation of NCM-Cathode-LLZO-Electrolyte Composites as Promising Candidates for All-Solid-State Batteries Using (Cryo) STEM and PED. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1978-1979	0.5	1	
436	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	
435	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	
434	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	
433	Analysis of Charge Carrier Transport Toward Optimized Cathode Composites for All-Solid-State Liß Batteries. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 183-194	5.6	22	
432	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	
431	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	
430	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	
429	Improved Cycling Performance of High-Nickel NMC by Dry Powder Coating with Nanostructured Fumed Al2O3, TiO2, and ZrO2: A Comparison. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1003-1017	5.6	10	
428	Comparing the Ion-Conducting Polymers with Sulfonate and Ether Moieties as Cathode Binders for High-Power Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Discourse (Materials &amp; Discours)</i> , 13, 9846-9855	9.5	6	

427	Facile Dry Coating Method of High-Nickel Cathode Material by Nanostructured Fumed Alumina (Al2O3) Improving the Performance of Lithium-Ion Batteries. <i>Energy Technology</i> , <b>2021</b> , 9, 2100028	3.5	6
426	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
425	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
424	Analyzing Nanometer-Thin Cathode Particle Coatings for Lithium-Ion Batteries The Example of TiO2 on NCM622. ACS Applied Energy Materials, 2021, 4, 7168-7181	6.1	1
423	Fast Charging of Lithium-Ion Batteries: A Review of Materials Aspects. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101126	21.8	65
422	Donor and acceptor-like self-doping by mechanically induced dislocations in bulk TiO2. <i>Nano Energy</i> , <b>2021</b> , 85, 105944	17.1	8
421	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
420	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
419	Cycling Performance and Limitations of LiNiO2 in Solid-State Batteries. ACS Energy Letters, 2021, 6, 302	<b>0≥30</b> 28	3 11
418	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
417	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
416	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
415	Monitoring of Thermally Induced Effects in Nickel-Rich Layered Oxide Cathode Materials at the Atomic Level. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2020</b> , 12, 57047-57054	9.5	6
4 <sup>1</sup> 4	LiZrO-Coated NCM622 for Application in Inorganic Solid-State Batteries: Role of Surface Carbonates in the Cycling Performance. <i>ACS Applied Materials &amp; District Science</i> , <b>2020</b> , 12, 57146-57154	9.5	37
413	Nonlithium Aprotic Metal/Oxygen Batteries Using Na, K, Mg, or Ca as Metal Anode <b>2020</b> , 1-29		1
412	Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000089	21.8	64
411	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
410	The Sound of Batteries: An Operando Acoustic Emission Study of the LiNiO2 Cathode in Lilbn Cells. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 1021-1027	5.6	6

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409	Na3Zr2Si2PO12: A Stable Na+-Ion Solid Electrolyte for Solid-State Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 7427-7437	6.1	31
408	The Fast Charge Transfer Kinetics of the Lithium Metal Anode on the Garnet-Type Solid Electrolyte Li6.25Al0.25La3Zr2O12. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000945	21.8	44
407	Reversible Capacity Loss of LiCoO2 Thin Film Electrodes. ACS Applied Energy Materials, 2020, 3, 6065-60	D <b>7</b> 611	4
406	The effect of gallium substitution on the structure and electrochemical performance of LiNiO2 in lithium-ion batteries. <i>Materials Advances</i> , <b>2020</b> , 1, 639-647	3.3	14
405	From Liquid- to Solid-State Batteries: Ion Transfer Kinetics of Heteroionic Interfaces. Electrochemical Energy Reviews, <b>2020</b> , 3, 221-238	29.3	55
404	Benchmarking the performance of all-solid-state lithium batteries. <i>Nature Energy</i> , <b>2020</b> , 5, 259-270	62.3	342
403	Importance of the Spin Drbit Interaction for a Consistent Theoretical Description of Small Polarons in Pr-Doped CeO2. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15831-15838	3.8	3
402	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
401	Modeling Effective Ionic Conductivity and Binder Influence in Composite Cathodes for All-Solid-State Batteries. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2020</b> , 12, 12821-12833	9.5	65
400	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
399	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
398	Analysis of Interfacial Effects in All-Solid-State Batteries with Thiophosphate Solid Electrolytes. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2020</b> , 12, 9277-9291	9.5	40
397	Interphase Formation of PEO:LiTFSI-LiPSCl Composite Electrolytes with Lithium Metal. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2020</b> , 12, 11713-11723	9.5	54
396	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
395	Gas Evolution in Lithium-Ion Batteries: Solid versus Liquid Electrolyte. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2020</b> , 12, 20462-20468	9.5	31
394	Spin-dimer ground state driven by consecutive charge and orbital ordering transitions in the anionic mixed-valence compound Rb4O6. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	1
393	Investigations of the Solid Electrolyte Interphase Using X-Ray Photoelectron Spectroscopy In situ Experiment on the Lithium-Based Solid Electrolyte LiPSON. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900336	1.3	3
392	The Interface between Li6.5La3Zr1.5Ta0.5O12 and Liquid Electrolyte. <i>Joule</i> , <b>2020</b> , 4, 101-108	27.8	45

391	High-conductivity free-standing Li6PS5Cl/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
390	An in situ structural study on the synthesis and decomposition of LiNiO2. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1808-1820	13	30
389	A Sodium Polysulfide Battery with Liquid/Solid Electrolyte: Improving Sulfur Utilization Using P2S5 as Additive and Tetramethylurea as Catholyte Solvent. <i>Energy Technology</i> , <b>2020</b> , 8, 1901200	3.5	5
388	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
387	Macroscopic Displacement Reaction of Copper Sulfide in Lithium Solid-State Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002394	21.8	13
386	From LiNiO2 to Li2NiO3: Synthesis, Structures and Electrochemical Mechanisms in Li-Rich Nickel Oxides. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9211-9227	9.6	11
385	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
384	Physicochemical Concepts of the Lithium Metal Anode in Solid-State Batteries. <i>Chemical Reviews</i> , <b>2020</b> , 120, 7745-7794	68.1	196
383	The Sound of Batteries: An Operando Acoustic Emission Study of the LiNiO2 Cathode in Lilbn Cells. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 965-965	5.6	1
382	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
381	Investigations into the superionic glass phase of Li4PS4I 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
380	Substituent Pattern Effects on the Redox Potentials of Quinone-Based Active Materials for Aqueous Redox Flow Batteries. <i>ChemSusChem</i> , <b>2020</b> , 13, 5480-5488	8.3	10
379	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
378	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
377	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
376	Visualization of Light Elements using 4D STEM: The Layered-to-Rock Salt Phase Transition in LiNiO2 Cathode Material. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001026	21.8	22
375	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
374	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

373	LATP and LiCoPO4 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
372	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
371	Exsolved Nickel Nanoparticles Acting as Oxygen Storage Reservoirs and Active Sites for Redox CH4 Conversion. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7288-7298	6.1	33
370	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
369	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
368	Interfacial Stability of Phosphate-NASICON Solid Electrolytes in Ni-Rich NCM Cathode-Based Solid-State Batteries. <i>ACS Applied Materials &amp; Discrete Samp; Interfaces</i> , <b>2019</b> , 11, 23244-23253	9.5	38
367	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
366	Guidelines for All-Solid-State Battery Design and Electrode Buffer Layers Based on Chemical Potential Profile Calculation. <i>ACS Applied Materials &amp; Empty Interfaces</i> , <b>2019</b> , 11, 19968-19976	9.5	52
365	Electrochemical and Optical Properties of Lithium Ion Conducting LiPSON Solid Electrolyte Films. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1900047	1.3	3
364	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
363	Benchmarking Anode Concepts: The Future of Electrically Rechargeable ZincAir Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1287-1300	20.1	81
362	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
361	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; Discours (1988)</i> 11, 14463-14477	9.5	265
360	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, 2240-225	$50^{8.3}$	79
359	Amorphous versus Crystalline Li3PS4: Local Structural Changes during Synthesis and Li Ion Mobility. Journal of Physical Chemistry C, <b>2019</b> , 123, 10280-10290	3.8	33
358	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
357	Observation of Chemomechanical Failure and the Influence of Cutoff Potentials in All-Solid-State LiB Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2930-2940	9.6	69
356	Unraveling the Formation Mechanism of Solid-Liquid Electrolyte Interphases on LiPON Thin Films. <i>ACS Applied Materials &amp; Discours (Materials &amp; Discours)</i> 11, 9539-9547	9.5	18

355	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
354	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	
353	Lithium-Metal Growth Kinetics on LLZO Garnet-Type Solid Electrolytes. <i>Joule</i> , <b>2019</b> , 3, 2030-2049	27.8	180
352	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
351	Properties of the Interphase Formed between Argyrodite-Type LiPSCl and Polymer-Based PEO:LiTFSI. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2019</b> , 11, 42186-42196	9.5	48
350	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
349	Analysis of microscopic bone properties in an osteoporotic sheep model: a combined biomechanics, FE and ToF-SIMS study. <i>Journal of the Royal Society Interface</i> , <b>2019</b> , 16, 20180793	4.1	3
348	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
347	Hin und zurdk die Entwicklung von LiNiO2 als Kathodenaktivmaterial. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 10542-10569	3.6	11
346	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
345	Homogeneous Coating with an Anion-Exchange Ionomer Improves the Cycling Stability of Secondary Batteries with Zinc Anodes. <i>ACS Applied Materials &amp; Discounty Materials</i> , 10, 8640-8648	9.5	45
344	Structural analysis and electrical characterization of cation-substituted lithium ion conductors Li1 $\blacksquare$ Ti1 $\blacksquare$ MxOPO4 (M = Nb, Ta, Sb). <i>Solid State Ionics</i> , <b>2018</b> , 319, 170-179	3.3	2
343	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
342	Correlating Transport and Structural Properties in LiAl Ge(PO) (LAGP) Prepared from Aqueous Solution. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 10935-10944	9.5	52
341	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
340	Manipulation of matter by electric and magnetic fields: Toward novel synthesis and processing routes of inorganic materials. <i>Materials Today</i> , <b>2018</b> , 21, 527-536	21.8	46
339	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
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