# Juergen Janek

#### List of Publications by Citations

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#	Paper	IF	Citations
462	A rechargeable room-temperature sodium superoxide (NaO2) battery. <i>Nature Materials</i> , <b>2013</b> , 12, 228-3	3 <b>2</b> 7	626
461	New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1945	5- <b>19</b> .76	601
460	Direct Observation of the Interfacial Instability of the Fast Ionic Conductor Li10GeP2S12 at the Lithium Metal Anode. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2400-2407	9.6	463
459	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
458	Tuning Transition Metal OxideBulfur Interactions for Long Life Lithium Sulfur Batteries: The Goldilocks[Principle. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501636	21.8	448
457	Structure and dynamics of the fast lithium ion conductor "Li7La3Zr2O12". <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 19378-92	3.6	446
456	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
455	TEMPO: a mobile catalyst for rechargeable Li-Olbatteries. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 15054-64	16.4	390
454	Benchmarking the performance of all-solid-state lithium batteries. <i>Nature Energy</i> , <b>2020</b> , 5, 259-270	62.3	342
453	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, 21064-2	1 <i>ð7</i> 84	308
452	Chemo-mechanical expansion of lithium electrode materials Ibn the route to mechanically optimized all-solid-state batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2142-2158	35.4	308
451	From lithium to sodium: cell chemistry of room temperature sodium-air and sodium-sulfur batteries. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 1016-55	3	307
450	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
449	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
448	Interphase formation on lithium solid electrolytesAn in situ approach to study interfacial reactions by photoelectron spectroscopy. <i>Solid State Ionics</i> , <b>2015</b> , 278, 98-105	3.3	287
447	Interphase formation and degradation of charge transfer kinetics between a lithium metal anode and highly crystalline Li7P3S11 solid electrolyte. <i>Solid State Ionics</i> , <b>2016</b> , 286, 24-33	3.3	276
446	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; Amp; Interfaces</i> , <b>2019</b> , 11, 14463-14477	9.5	265

445	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
444	Interfacial Processes and Influence of Composite Cathode Microstructure Controlling the Performance of All-Solid-State Lithium Batteries. <i>ACS Applied Materials &amp; Description (Control of All-Solid-State Lithium Batteries)</i> 1783	5-9: <del>7</del> 84	5 <sup>232</sup>
443	Interfacial reactivity and interphase growth of argyrodite solid electrolytes at lithium metal electrodes. <i>Solid State Ionics</i> , <b>2018</b> , 318, 102-112	3.3	227
442	A comprehensive study on the cell chemistry of the sodium superoxide (NaO2) battery. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11661-72	3.6	225
441	Elastic strain at interfaces and its influence on ionic conductivity in nanoscaled solid electrolyte thin filmstheoretical considerations and experimental studies. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3043-8	3.6	200
440	Physicochemical Concepts of the Lithium Metal Anode in Solid-State Batteries. <i>Chemical Reviews</i> , <b>2020</b> , 120, 7745-7794	68.1	196
439	Mesoporous TiO(2): comparison of classical sol-gel and nanoparticle based photoelectrodes for the water splitting reaction. <i>ACS Nano</i> , <b>2010</b> , 4, 3147-54	16.7	192
438	Ionic conductivity and activation energy for oxygen ion transport in superlatticesthe semicoherent multilayer system YSZ (ZrO2 + 9.5 mol% Y2O3)/Y2O3. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 4623-35	3.6	187
437	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
436	Lithium-Metal Growth Kinetics on LLZO Garnet-Type Solid Electrolytes. <i>Joule</i> , <b>2019</b> , 3, 2030-2049	27.8	180
435	Lithium metal electrode kinetics and ionic conductivity of the solid lithium ion conductors Li7La3Zr2O12Land Li7La3Zr2LaxO12 with garnet-type structure. <i>Journal of Power Sources</i> , <b>2012</b> , 206, 236-244	8.9	179
434	Electrochemical stability of non-aqueous electrolytes for sodium-ion batteries and their compatibility with Na(0.7)CoO2. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1987-98	3.6	175
433	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
432	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; Discrete Section</i> , 100 per performance study of various polymer binders and silicon nanopowders. <i>ACS Applied Materials &amp; Discrete Section</i> , 100 per	9.5	174
431	The critical role of lithium nitrate in the gas evolution of lithium ulfur batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2603-2608	35.4	171
430	The Detrimental Effects of Carbon Additives in LiGePS-Based Solid-State Batteries. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2017</b> , 9, 35888-35896	9.5	169
429	On the Thermodynamics, the Role of the Carbon Cathode, and the Cycle Life of the Sodium Superoxide (NaO2) Battery. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301863	21.8	163
428	(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

427	Lithium ion conductivity in Li2SP2S5 glasses (building units and local structure evolution during the crystallization of superionic conductors Li3PS4, Li7P3S11 and Li4P2S7. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18111-18119	13	159
426	Degradation Mechanisms at the LiGePS/LiCoO Cathode Interface in an All-Solid-State Lithium-Ion Battery. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 22226-22236	9.5	158
425	Redox-active cathode interphases in solid-state batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22	27505-22	7 <b>6</b> 0 <sub>52</sub>
424	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
423	Ordered Large-Pore Mesoporous Li4Ti5O12 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> , <b>2011</b> , 23, 4384-4393	9.6	152
422	Ionic conductivity and activation energy for oxygen ion transport in superlattices <b>T</b> he multilayer system CSZ (ZrO2 + CaO) / Al2O3. <i>Solid State Ionics</i> , <b>2007</b> , 178, 67-76	3.3	151
421	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
420	Charge-Transfer-Induced Lattice Collapse in Ni-Rich NCM Cathode Materials during Delithiation. Journal of Physical Chemistry C, <b>2017</b> , 121, 24381-24388	3.8	148
419	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
418	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
417	Electrochemical blackening of yttria-stabilized zirconia Imorphological instability of the moving reaction front. <i>Solid State Ionics</i> , <b>1999</b> , 116, 181-195	3.3	142
416	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
415	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
4 <sup>1</sup> 4	Interfacial Reactivity Benchmarking of the Sodium Ion Conductors NaPS and Sodium EAlumina 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
413	Stabilization of cubic lithium-stuffed garnets of the type Ili7La3Zr2O12Iby addition of gallium. Journal of Power Sources, <b>2013</b> , 225, 13-19	8.9	136
412	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
411	Structural Insights and 3D Diffusion Pathways within the Lithium Superionic Conductor Li10GeP2S12. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5905-5915	9.6	136
410	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

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409	How To Improve Capacity and Cycling Stability for Next Generation Li-O2 Batteries: Approach with a Solid Electrolyte and Elevated Redox Mediator Concentrations. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2016</b> , 8, 7756-65	9.5	130
408	Ionic liquids as green electrolytes for the electrodeposition of nanomaterials. <i>Green Chemistry</i> , <b>2007</b> , 9, 549-553	10	127
407	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
406	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
405	Evolution of Li2O2 growth and its effect on kinetics of Li-O2 batteries. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2014</b> , 6, 12083-92	9.5	117
404	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
403	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
402	Origin of Carbon Dioxide Evolved during Cycling of Nickel-Rich Layered NCM Cathodes. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 38892-38899	9.5	111
401	Understanding the fundamentals of redox mediators in Li-O2 batteries: a case study on nitroxides. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 31769-79	3.6	99
400	In situ study of electrochemical activation and surface segregation of the SOFC electrode material La0.75Sr0.25Cr0.5Mn0.5O(3H) <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 751-8	3.6	98
399	Suppression of atom motion and metal deposition in mixed ionic electronic conductors. <i>Nature Communications</i> , <b>2018</b> , 9, 2910	17.4	97
398	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
397	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
396	Plasma electrochemistry in ionic liquids: deposition of copper nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 1750-5	3.6	92
395	Pressure Dynamics in Metal®xygen (Metal®ir) Batteries: A Case Study on Sodium Superoxide Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1461-1471	3.8	87
394	Influence of interface structure on mass transport in phase boundaries between different ionic materials: Experimental studies and formal considerations. <i>Monatshefte Fil Chemie</i> , <b>2009</b> , 140, 1069-108	вб <sup>.4</sup>	87
393	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
392	Tin-Assisted Synthesis of <b>G</b> a2O3 by Molecular Beam Epitaxy. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	86

391	Discharge and Charge Reaction Paths in Sodium Dxygen Batteries: Does NaO2 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
390	Benchmarking Anode Concepts: The Future of Electrically Rechargeable ZincAir Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1287-1300	20.1	81
389	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
388	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
387	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	) <sup>8.3</sup>	79
386	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
385	Li4PS4I: A Li+ Superionic Conductor Synthesized by a Solvent-Based Soft Chemistry Approach. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1830-1835	9.6	76
384	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
383	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
382	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
381	Local Structural Investigations, Defect Formation, and Ionic Conductivity of the Lithium Ionic Conductor Li4P2S6. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8764-8773	9.6	74
380	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
379	Gas Evolution in LiNi0.5Mn1.5O4/Graphite Cells Studied In Operando by a Combination of Differential Electrochemical Mass Spectrometry, Neutron Imaging, and Pressure Measurements. Analytical Chemistry, <b>2016</b> , 88, 2877-83	7.8	72
378	Ionic Liquid-Derived Nitrogen-Enriched Carbon/Sulfur Composite Cathodes with Hierarchical Microstructure Step Toward Durable High-Energy and High-Performance Lithium Bulfur Batteries. Chemistry of Materials, 2015, 27, 1674-1683	9.6	72
377	Defect chemistry of oxide nanomaterials with high surface area: ordered mesoporous thin films of the oxygen storage catalyst CeO2-ZrO2. <i>ACS Nano</i> , <b>2013</b> , 7, 2999-3013	16.7	72
376	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
375	Observation of Chemomechanical Failure and the Influence of Cutoff Potentials in All-Solid-State Liß Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2930-2940	9.6	69
374	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

# (2020-2019)

373	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
372	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
371	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
370	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
369	Gas Evolution in All-Solid-State Battery Cells. ACS Energy Letters, 2018, 3, 2539-2543	20.1	65
368	Fast Charging of Lithium-Ion Batteries: A Review of Materials Aspects. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101126	21.8	65
367	Fair performance comparison of different carbon blacks in lithium ulfur 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
366	Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000089	21.8	64
365	Novel anion conductorsconductivity, 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
364	Solid-state batteries enter EV fray. MRS Bulletin, 2014, 39, 1046-1047	3.2	63
363	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
362	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
361	Insights into the Chemical Nature and Formation Mechanisms of Discharge Products in NaD2 Batteries by Means of Operando X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 8472-8481	3.8	61
<b>3</b> 60	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
359	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
358	New Insights into the Instability of Discharge Products in Na-O2 Batteries. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2016</b> , 8, 20120-7	9.5	56
357	Molecular Surface Modification of NCM622 Cathode Material Using Organophosphates for Improved Li-Ion Battery Full-Cells. <i>ACS Applied Materials &amp; Discrete Section</i> , 10, 20487-20498	9.5	56
356	From Liquid- to Solid-State Batteries: Ion Transfer Kinetics of Heteroionic Interfaces. Electrochemical Energy Reviews, <b>2020</b> , 3, 221-238	29.3	55

355	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
354	Coherency strain and its effect on ionic conductivity and diffusion in solid electrolytesan improved model for nanocrystalline thin films and a review of experimental data. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 24575-91	3.6	55
353	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
352	Li+-lon Dynamics in £i3PS4 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
351	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
350	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
349	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
348	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
347	Simple cathode design for Liß 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
346	Mesoporous tin-doped indium oxide thin films: effect of mesostructure on electrical conductivity. <i>Science and Technology of Advanced Materials</i> , <b>2011</b> , 12, 025005	7.1	53
345	Guidelines for All-Solid-State Battery Design and Electrode Buffer Layers Based on Chemical Potential Profile Calculation. <i>ACS Applied Materials &amp; Design State S</i>	9.5	52
344	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
343	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
342	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, 20088-200	o <b>3</b> 5 <sup>6</sup>	51
341	Defect chemistry of the cage compound, Ca(12)Al(14)O(33-delta)-understanding the route from a solid electrolyte to a semiconductor and electride. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3105-	14 <sup>3.6</sup>	49
340	Properties of the Interphase Formed between Argyrodite-Type LiPSCl and Polymer-Based PEO:LiTFSI. <i>ACS Applied Materials &amp; Discrete Samp; Interfaces</i> , <b>2019</b> , 11, 42186-42196	9.5	48
339	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
338	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

# (2017-2006)

337	In situ imaging of electrochemically induced oxygen spillover on Pt/YSZ catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 1473-6	16.4	47
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321	Oxygen tracer diffusion along interfaces of strained Y2O3/YSZ multilayers. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 1944-55	3.6	43
320	Electrochemical Cross-Talk Leading to Gas Evolution and Capacity Fade in LiNi0.5Mn1.5O4/Graphite Full-Cells. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 211-216	3.8	41

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