

# H Martin R Wilkening

## 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.

198  
papers

6,721  
citations

47  
h-index

73  
g-index

230  
ext. papers

7,797  
ext. citations

5.9  
avg, IF

6.21  
L-index

#	Paper	IF	Citations
198	Opening Diffusion Pathways through Site Disorder: The Interplay of Local Structure and Ion Dynamics in the Solid Electrolyte LiPGeSI as Probed by Neutron Diffraction and NMR.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	8
197	Extremely Fast Interfacial Li Ion Dynamics in Crystalline LiTFSI Combined with EMIM-TFSI. <i>ACS Physical Chemistry Au</i> , <b>2022</b> , 2, 136-142		0
196	With a Little Help from P NMR: The Complete Picture on Localized and Long-Range Li Diffusion in LiPSI. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 22457-22463	3.8	2
195	Fuzzy logic: about the origins of fast ion dynamics in crystalline solids. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200434	3	2
194	Hybrid Solid-Electrolytes: High Li <sup>+</sup> and Na <sup>+</sup> Conductivity in New Hybrid Solid Electrolytes based on the Porous MIL-121 Metal Organic Framework (Adv. Energy Mater. 16/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170060	21.8	0
193	Conductor-Insulator Interfaces in Solid Electrolytes: A Design Strategy to Enhance Li-Ion Dynamics in Nanoconfined LiBH/AIO. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 15052-15060	3.8	5
192	Fast Li Ion Dynamics in the Mechanosynthesized Nanostructured Form of the Solid Electrolyte Li <sub>3</sub> YBr <sub>6</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 743-755	8.3	6
191	Two-Dimensional Substitution: Toward a Better Understanding of the Structure-Transport Correlations in the Li-Superionic Thio-LISICONs. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 727-740	9.6	8
190	Tracking Ions the Direct Way: Long-Range Li Dynamics in the Thio-LISICON Family LiMCh (M = Sn, Ge; Ch = S, Se) as Probed by Li NMR Relaxometry and Li Spin-Alignment Echo NMR. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 2306-2317	3.8	8
189	High Li <sup>+</sup> and Na <sup>+</sup> Conductivity in New Hybrid Solid Electrolytes based on the Porous MIL-121 Metal Organic Framework. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003542	21.8	4
188	Direct Assessment of Ultralow Li <sup>+</sup> Jump Rates in Single Crystalline Li <sub>3</sub> N by Evolution-Time-Resolved 7Li Spin-Alignment Echo NMR. <i>European Journal of Inorganic Chemistry</i> , <b>2021</b> , 2021, 1028-1033	2.3	0
187	Ionic and electronic transport in the fast Ag conductor $\beta$ -AgSI. <i>Solid State Sciences</i> , <b>2021</b> , 118, 106680	3.4	1
186	Isolable Geminal Bisgermenolates: A New Synthon in Organometallic Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23646-23650	16.4	2
185	Isolable Geminal Bisgermenolates: A New Synthon in Organometallic Chemistry. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23838	3.6	
184	Insulator:conductor interfacial regions $\Gamma$ Li ion dynamics in the nanocrystalline dispersed ionic conductor LiF:TiO <sub>2</sub> . <i>Solid State Ionics</i> , <b>2021</b> , 369, 115726	3.3	2
183	Understanding the Origin of Enhanced Li-Ion Transport in Nanocrystalline Argyrodite-Type LiPSI. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4754-4766	9.6	22
182	Influence of defects on ionic transport in LiTaO <sub>3</sub> $\Gamma$ A study using EXAFS and positron annihilation lifetime spectroscopy. <i>Solid State Ionics</i> , <b>2020</b> , 352, 115355	3.3	2

181	The Electronic Conductivity of Single Crystalline Ga-Stabilized Cubic Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> : A Technologically Relevant Parameter for All-Solid-State Batteries. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000450	4.6	11
180	The natural critical current density limit for Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> garnets. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15782-15788	13	50
179	Lithium-Ion Transport in Nanocrystalline Spinel-Type Li[InLi]Br as Seen by Conductivity Spectroscopy and NMR. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 100	5	0
178	Combined Effects of Anion Substitution and Nanoconfinement on the Ionic Conductivity of Li-Based Complex Hydrides. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 2806-2816	3.8	20
177	Lowering the Interfacial Resistance in LLZTO:PEO Electrolytes By Covalent Surface Modifications. <i>ECS Meeting Abstracts</i> , <b>2020</b> , MA2020-02, 962-962	0	
176	On the dependence of ionic transport on crystal orientation in NaSICON-type solid electrolytes. <i>JPhys Energy</i> , <b>2020</b> , 2, 035003	4.9	2
175	Lowering the Interfacial Resistance in Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub>  Poly(Ethylene Oxide) Composite Electrolytes. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100214	6.1	4
174	Highly Conductive Garnet-Type Electrolytes: Access to LiLaZrTaO Prepared by Molten Salt and Solid-State Methods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 48580-48590	9.5	10
173	Structural Disorder in LiPSI Speeds Li Nuclear Spin Recovery and Slows Down P Relaxation-Implications for Translational and Rotational Jumps as Seen by Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22934-22940	3.8	8
172	Anomalies in Bulk Ion Transport in the Solid Solutions of LiLaMO (M = Hf, Sn) and LiLaTaO. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 16796-16805	3.8	3
171	Safety assessment of electrically cycled cells at high temperatures under mechanical crush loads. <i>ETransportation</i> , <b>2020</b> , 6, 100087	12.7	12
170	Rapid Low-Dimensional Li Ion Hopping Processes in Synthetic Hectorite-Type Li[MgLi]SiOF. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7445-7457	9.6	4
169	Li-Ion Diffusion in Nanoconfined LiBH-LiI/AlO: From 2D Bulk Transport to 3D Long-Range Interfacial Dynamics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38570-38583	9.5	14
168	New Solar Cell/Battery Hybrid Energy System: Integrating Organic Photovoltaics with Li-Ion and Na-Ion Technologies. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 19155-19168	8.3	7
167	Ion dynamics in Al-Stabilized Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> single crystals [Macroscopic transport and the elementary steps of ion hopping. <i>Energy Storage Materials</i> , <b>2020</b> , 24, 220-228	19.4	21
166	Redox processes in sodium vanadium phosphate cathodes - insights from operando magnetometry. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20151-20155	3.6	4
165	Nascent SEI-Surface Films on Single Crystalline Silicon Investigated by Scanning Electrochemical Microscopy. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1388-1392	6.1	14
164	Spatial confinement - rapid 2D F diffusion in micro- and nanocrystalline RbSnF. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 1872-1883	3.6	10

163	Lithium ion dynamics in LiZr(PO) and LiCaZr(PO). <i>Dalton Transactions</i> , <b>2019</b> , 48, 9376-9387	4.3	10
162	Fast Rotational Dynamics in Argyrodite-Type Li <sub>6</sub> PS <sub>5</sub> X (X: Cl, Br, I) as Seen by <sup>31</sup> P Nuclear Magnetic Relaxation On Cation-Anion Coupled Transport in Thiophosphates. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4591-4597	9.6	57
161	Glass in Two Forms: Heterogeneous Electrical Relaxation in Nanoglassy Petalite. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10153-10162	3.8	3
160	Electrochemical properties of arylsilanes. <i>Electrochemistry Communications</i> , <b>2019</b> , 102, 13-18	5.1	1
159	Ionic Conduction Mechanism in the Na <sub>2</sub> (B <sub>12</sub> H <sub>12</sub> ) <sub>0.5</sub> (B <sub>10</sub> H <sub>10</sub> ) <sub>0.5</sub> closo-Borate Solid-State Electrolyte: Interplay of Disorder and Ion-Ion Interactions. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3449-3460	9.6	38
158	Substitutional disorder: structure and ion dynamics of the argyrodites LiPSCl, LiPSBr and LiPSI. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 8489-8507	3.6	69
157	Superionic Diffusion through Frustrated Energy Landscape. <i>CheM</i> , <b>2019</b> , 5, 2450-2460	16.2	59
156	Self-diffusion and ionic exchange in mechanosynthesized, nanocrystalline solid solutions of PbF <sub>2</sub> and CaF <sub>2</sub> 19F 2D NMR visualizes the fluorine hopping preferences. <i>Solid State Ionics</i> , <b>2019</b> , 343, 115067	3.3	6
155	Evaluation of carboxylic, phosphonic, and sulfonic acid protogenic moieties on tunable poly(meta-phenylene oxide) ionomer scaffolds. <i>Journal of Polymer Science Part A</i> , <b>2019</b> , 57, 2209-2213	2.5	3
154	Dispersed Solid Conductors: Fast Interfacial Li-Ion Dynamics in Nanostructured LiF and LiF:Al <sub>2</sub> O <sub>3</sub> Composites. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 5222-5230	3.8	24
153	Fluoride-Ion Batteries: On the Electrochemical Stability of Nanocrystalline LaBaF against Metal Electrodes. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	7
152	Analytical Dissection of an Automotive Li-Ion Pouch Cell. <i>Batteries</i> , <b>2019</b> , 5, 67	5.7	16
151	Proton Bulk Diffusion in Cubic Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Garnets as Probed by Single X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1094-1098	3.8	9
150	Heterogeneous F anion transport, local dynamics and electrochemical stability of nanocrystalline La <sub>1-x</sub> BaxF <sub>3</sub> . <i>Energy Storage Materials</i> , <b>2019</b> , 16, 481-490	19.4	12
149	Niederdimensionale Materialien für die ersten Li-Ionenbatterien. <i>Nachrichten Aus Der Chemie</i> , <b>2019</b> , 67, 48-51	0.1	2
148	Mismatch in cation size causes rapid anion dynamics in solid electrolytes: the role of the Arrhenius pre-factor. <i>Dalton Transactions</i> , <b>2018</b> , 47, 4105-4117	4.3	20
147	Arrhenius Behavior of the Bulk Na-Ion Conductivity in NaSc(PO) Single Crystals Observed by Microcontact Impedance Spectroscopy. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1776-1781	9.6	14
146	Rapid Li Ion Dynamics in the Interfacial Regions of Nanocrystalline Solids. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2093-2097	6.4	25

145	Interface Instability of Fe-Stabilized LiLaZrO versus Li Metal. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3780-3785	3.8	55
144	Quantifying Total Superoxide, Peroxide, and Carbonaceous Compounds in Metal-D2 Batteries and the Solid Electrolyte Interphase. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 170-176	20.1	21
143	Long-Chain Li and Na Alkyl Carbonates as Solid Electrolyte Interphase Components: Structure, Ion Transport, and Mechanical Properties. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3338-3345	9.6	18
142	F anion dynamics in cation-mixed nanocrystalline LaF3: SrF2. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 13669-13681	15	15
141	Bulk and grain-boundary ionic conductivity in sodium zirconophosphosilicate Na3Zr2(SiO4)2PO4 (NASICON). <i>Chemical Physics Letters</i> , <b>2018</b> , 701, 147-150	2.5	20
140	Ion dynamics in a new class of materials: nanoglassy lithium aluminosilicates. <i>Materials Research Express</i> , <b>2018</b> , 5, 035202	1.7	1
139	Lithium-Festelektrolyte für Energiespeicher. <i>Nachrichten Aus Der Chemie</i> , <b>2018</b> , 66, 499-504	0.1	
138	Fast Na ion transport triggered by rapid ion exchange on local length scales. <i>Scientific Reports</i> , <b>2018</b> , 8, 11970	4.9	16
137	Fluorine Translational Anion Dynamics in Nanocrystalline Ceramics: SrF2-YF3 Solid Solutions. <i>Crystals</i> , <b>2018</b> , 8, 122	2.3	7
136	Untangling the Structure and Dynamics of Lithium-Rich Anti-Perovskites Envisaged as Solid Electrolytes for Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8134-8144	9.6	44
135	Nuclear Spin Relaxation in Nanocrystalline Li3PS4 Reveals Low-Dimensional Li Diffusion in an Isotropic Matrix. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7575-7586	9.6	24
134	Ion dynamics in solid electrolytes for lithium batteries. <i>Journal of Electroceramics</i> , <b>2017</b> , 38, 142-156	1.5	59
133	Singlet oxygen generation as a major cause for parasitic reactions during cycling of aprotic lithium-oxygen batteries. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	243
132	Singlet Oxygen during Cycling of the Aprotic Sodium-O Battery. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15728-15732	16.4	78
131	Singulett-Sauerstoff in der aprotischen Natrium-O2-Batterie. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15934-15938	14	14
130	An X-Ray Absorption Spectroscopy Study of Ball-Milled Lithium Tantalate and Lithium Titanate Nanocrystals. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 169, 012015	0.4	2
129	Solid Electrolytes: Extremely Fast Charge Carriers in Garnet-Type Li6La3ZrTaO12 Single Crystals. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1700140	2.6	45
128	Mechanism and performance of lithium-oxygen batteries - a perspective. <i>Chemical Science</i> , <b>2017</b> , 8, 6716-6729	116	116

127	Aging of Tesla's 18650 Lithium-Ion Cells: Correlating Solid-Electrolyte-Interphase Evolution with Fading in Capacity and Power. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A3503-A3510	3.9	21
126	Innenrücktitelbild: Singulett-Sauerstoff in der aprotischen Natrium-O <sub>2</sub> -Batterie (Angew. Chem. 49/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15977-15977	3.6	
125	Lithium barrier materials for on-chip Si-based microbatteries. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 14605-14614	2.1	9
124	Solid-State NMR to Study Translational Li Ion Dynamics in Solids with Low-Dimensional Diffusion Pathways. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2017</b> , 231, 1215-1241	3.1	17
123	Nanostructured Ceramics: Ionic Transport and Electrochemical Activity. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2017</b> , 231,	3.1	18
122	An Electrolyte for Reversible Cycling of Sodium Metal and Intercalation Compounds. <i>ChemSusChem</i> , <b>2017</b> , 10, 401-408	8.3	67
121	Structure and ion dynamics of mechanothesized oxides and fluorides. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2017</b> , 232, 107-127	1	25
120	Partial electronic conductivity of nanocrystalline Na <sub>2</sub> O <sub>2</sub> . <i>Materials Research Express</i> , <b>2017</b> , 4, 075508	1.7	4
119	Ultra-slow Li ion jump diffusion in Li <sub>2</sub> SnO <sub>3</sub> studied by two-time <sup>7</sup> Li spin-alignment echo NMR and <sup>7</sup> Li NMR relaxometry. <i>Solid State Ionics</i> , <b>2016</b> , 293, 85-93	3.3	3
118	Crystal chemistry of "Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> " garnet doped with Al, Ga, and Fe: a short review on local structures as revealed by NMR and Möbauer spectroscopy studies. <i>European Journal of Mineralogy</i> , <b>2016</b> , 28, 619-629	2.2	19
117	Synthesis, Crystal Structure, and Stability of Cubic LiLaZrBiO. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 12211-12219	5.1	35
116	The microstructure matters: breaking down the barriers with single crystalline silicon as negative electrode in Li-ion batteries. <i>Scientific Reports</i> , <b>2016</b> , 6, 31712	4.9	24
115	Mechanochemically synthesized fluorides: local structures and ion transport. <i>Dalton Transactions</i> , <b>2016</b> , 45, 8675-87	4.3	26
114	High-Energy Mechanical Treatment Boosts Ion Transport in Nanocrystalline Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> . <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 1687-1693	3.8	17
113	Electrochemical properties of spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanoparticles prepared via a low-temperature solid route. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 2673-2683	2.6	14
112	Unravelling Ultraslow Lithium-Ion Diffusion in LiAlO <sub>2</sub> : Experiments with Tracers, Neutrons, and Charge Carriers. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 915-924	9.6	31
111	LiBi <sub>3</sub> S <sub>5</sub> : A lithium bismuth sulfide with strong cation disorder. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 238, 60-67	3.3	13
110	An Unexpected Pathway: <sup>6</sup> Li-Exchange NMR Spectroscopy Points to Vacancy-Driven Out-of-Plane Li-Ion Hopping in Crystalline Li <sub>2</sub> SnO <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 3130-3138	3.8	18

109	Crystal Structure of Garnet-Related Li-Ion Conductor Li Ga LaZrO: Fast Li-Ion Conduction Caused by a Different Cubic Modification?. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1861-1871	9.6	116
108	Structural and Electrochemical Consequences of Al and Ga Cosubstitution in LiLaZrO Solid Electrolytes. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2384-2392	9.6	181
107	Investigation of the Electron Transfer at Si Electrodes: Impact and Removal of the Native SiO <sub>2</sub> Layer. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A504-A512	3.9	17
106	Evaluating the trade-off between mechanical and electrochemical performance of separators for lithium-ion batteries: Methodology and application. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 702-710	8.9	32
105	Method for Determination of the Internal Short Resistance and Heat Evolution at Different Mechanical Loads of a Lithium Ion Battery Cell Based on Dummy Pouch Cells. <i>Batteries</i> , <b>2016</b> , 2, 8	5.7	17
104	Diffusion-induced <sup>7</sup> Li NMR spin-lattice relaxation of fully lithiated, mixed-conducting Li <sub>7</sub> Ti <sub>5</sub> O <sub>12</sub> . <i>Solid State Ionics</i> , <b>2016</b> , 287, 77-82	3.3	13
103	Myth and Reality about the Origin of Inductive Loops in Impedance Spectra of Lithium-Ion Electrodes – A Critical Experimental Approach. <i>Electrochimica Acta</i> , <b>2016</b> , 207, 218-223	6.7	10
102	Discriminating the Mobile Ions from the Immobile Ones in Li <sub>4+x</sub> Ti <sub>5</sub> O <sub>12</sub> : <sup>6</sup> Li NMR Reveals the Main Li <sup>+</sup> Diffusion Pathway and Proposes a Refined Lithiation Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 11372-11381	3.8	34
101	Electrochemical preparation of tin/titania nanocomposite arrays. <i>RSC Advances</i> , <b>2016</b> , 6, 98243-98247	3.7	
100	Overall conductivity and NCL-type relaxation behavior in nanocrystalline sodium peroxide Na <sub>2</sub> O <sub>2</sub> – Consequences for Na-oxygen batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2016</b> , 211, 85-93	3.1	7
99	The 3R modification of Li <sub>x</sub> Ti <sub>5</sub> S <sub>2</sub> – Insights into local electronic structures from high-temperature in situ NMR spectroscopy. <i>Philosophical Magazine</i> , <b>2015</b> , 95, 861-868	1.6	2
98	Diffusion-induced <sup>7</sup> Li NMR relaxation of layer-structured tin disulphide – Li diffusion along the buried interfaces in Li <sub>0.17</sub> SnS <sub>2</sub> . <i>Solid State Ionics</i> , <b>2015</b> , 276, 56-61	3.3	5
97	Fast Li <sup>+</sup> Self-Diffusion in Amorphous Li <sub>8</sub> Si Electrochemically Prepared from Semiconductor Grade, Monocrystalline Silicon: Insights from Spin-Locking Nuclear Magnetic Relaxometry. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 12183-12192	3.8	18
96	Site Occupation of Ga and Al in Stabilized Cubic Li <sub>7</sub> B <sub>3</sub> (x+y)Ga <sub>x</sub> Al <sub>y</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Garnets As Deduced from <sup>27</sup> Al and <sup>71</sup> Ga MAS NMR at Ultrahigh Magnetic Fields. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3135-3142	9.6	54
95	Long-Cycle-Life Na-Ion Anodes Based on Amorphous Titania Nanotubes – Interfaces and Diffusion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25757-69	9.5	23
94	Separating bulk from grain boundary Li ion conductivity in the sol-gel prepared solid electrolyte Li <sub>1.5</sub> Al <sub>0.5</sub> Ti <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 21343-21350	13	101
93	Li-ion Dynamics in Solids as Seen Via Relaxation NMR. <i>Materials and Energy</i> , <b>2015</b> , 133-190		10
92	Ion Dynamics in Solid Electrolytes: NMR Reveals the Elementary Steps of Li <sup>+</sup> Hopping in the Garnet Li <sub>6.5</sub> La <sub>3</sub> Zr <sub>1.75</sub> Mo <sub>0.25</sub> O <sub>12</sub> . <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6571-6582	9.6	49

91	Mechanical detection of ultraslow, Debye-like Li-ion motions in LiAlO single crystals. <i>Annalen Der Physik</i> , <b>2015</b> , 527, 523-530	2.6	7
90	Fast Li ion dynamics in the solid electrolyte Li <sub>7</sub> P <sub>3</sub> S <sub>11</sub> as probed by (6,7) Li NMR spin-lattice relaxation. <i>ChemPhysChem</i> , <b>2015</b> , 16, 2582-93	3.2	34
89	Defect-enhanced F <sup>-</sup> ion conductivity in layer-structured nanocrystalline BaSnF <sub>4</sub> prepared by high-energy ball milling combined with soft annealing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2015</b> , 12, 10-14		20
88	Li Ion Dynamics in Nanocrystalline and Structurally Disordered Li <sub>2</sub> TiO <sub>3</sub> . <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2015</b> , 229, 1363-1374	3.1	8
87	A simple and straightforward mechanochemical synthesis of the far-from-equilibrium zinc aluminate, ZnAl <sub>2</sub> O <sub>4</sub> , and its response to thermal treatment. <i>RSC Advances</i> , <b>2015</b> , 5, 54321-54328	3.7	29
86	Very fast bulk Li ion diffusivity in crystalline Li <sub>1.5</sub> Al <sub>0.5</sub> Ti <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> as seen using NMR relaxometry. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 32115-21	3.6	59
85	Small Change, Great Effect: Steep Increase of Li Ion Dynamics in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> at the Early Stages of Chemical Li Insertion. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1740-1750	9.6	81
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81	Enhancing photoinduced electron transfer efficiency of fluorescent pH-probes with halogenated phenols. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9293-300	7.8	36
80	Order vs. disorder—huge increase in ionic conductivity of nanocrystalline LiAlO <sub>2</sub> embedded in an amorphous-like matrix of lithium aluminate. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20295-20306	13	64
79	Short-range Li diffusion vs. long-range ionic conduction in nanocrystalline lithium peroxide Li <sub>2</sub> O <sub>2</sub> —the discharge product in lithium-air batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2739-2752	35.4	100
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76	"Ionic liquids-in-salt"—a promising electrolyte concept for high-temperature lithium batteries?. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 12341-9	3.6	59
75	Novel amino propyl substituted organo tin compounds. <i>Canadian Journal of Chemistry</i> , <b>2014</b> , 92, 565-573	3.9	6
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72	Long-range Li <sup>+</sup> dynamics in the lithium argyrodite Li <sub>7</sub> PSe <sub>6</sub> as probed by rotating-frame spin-lattice relaxation NMR. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7123-32	3.6	51
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