

# H Martin R Wilkening

## List of Publications by Year in descending order

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213  
papers

8,760  
citations

34105

52  
h-index

54911

84  
g-index

230  
all docs

230  
docs citations

230  
times ranked

6859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and dynamics of the fast lithium ion conductor $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ . Physical Chemistry Chemical Physics, 2011, 13, 19378.	2.8	559
2	Singlet oxygen generation as a major cause for parasitic reactions during cycling of aprotic lithium-oxygen batteries. Nature Energy, 2017, 2, .	39.5	328
3	Mechanochemical reactions and syntheses of oxides. Chemical Society Reviews, 2013, 42, 7507.	38.1	274
4	Structural and Electrochemical Consequences of Al and Ga Cosubstitution in $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolytes. Chemistry of Materials, 2016, 28, 2384-2392.	6.7	258
5	$\text{La}_{x-2}\text{Zr}_2\text{O}_{12}$	3.2	177
6	Crystal Structure of Garnet-Related Li-Ion Conductor $\text{Li}_3\text{GaLa}_3\text{Zr}_2\text{O}_{12}$ : Fast Li-Ion Conduction Caused by a Different Cubic Modification?. Chemistry of Materials, 2016, 28, 1861-1871.	6.7	168
7	NMR and impedance studies of nanocrystalline and amorphous ion conductors: lithium niobate as a model system. Faraday Discussions, 2007, 134, 67-82.	3.2	151
8	Mechanism and performance of lithium-oxygen batteries – a perspective. Chemical Science, 2017, 8, 6716-6729.	7.4	146
9	Ultraslow Li diffusion in spinel-type structured $\text{Li}_4\text{Ti}_5\text{O}_{12}$ – A comparison of results from solid state NMR and impedance spectroscopy. Physical Chemistry Chemical Physics, 2007, 9, 1239-1246.	2.8	144
10	From Micro to Macro: Access to Long-Range $\text{Li}^+$ Diffusion Parameters in Solids via Microscopic $^7\text{Li}$ Spin Alignment Echo NMR Spectroscopy. ChemPhysChem, 2012, 13, 53-65.	2.1	138
11	Substitutional disorder: structure and ion dynamics of the argyrodites $\text{Li}_6\text{PS}_5\text{Cl}$ , $\text{Li}_6\text{PS}_5\text{Br}$ and $\text{Li}_6\text{PS}_5\text{I}$ . Physical Chemistry Chemical Physics, 2019, 21, 8489-8507.	2.8	133
12	Separating bulk from grain boundary Li ion conductivity in the sol-gel prepared solid electrolyte $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ti}_{1.5}(\text{PO}_4)_3$ . Journal of Materials Chemistry A, 2015, 3, 21343-21350.	10.3	127
13	Mechanosynthesis of Solid Electrolytes: Preparation, Characterization, and Li Ion Transport Properties of Garnet-Type Al-Doped $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Crystallizing with Cubic Symmetry. Journal of Physical Chemistry C, 2012, 116, 15192-15202.	3.1	121
14	Highly Mobile Ions: Low-Temperature NMR Directly Probes Extremely Fast $\text{Li}^+$ Hopping in Argyrodite-Type $\text{Li}_6\text{PS}_5\text{Br}$ . Journal of Physical Chemistry Letters, 2013, 4, 2118-2123.	4.6	118
15	Li Ion Diffusion in the Anode Material $\text{Li}_{12}\text{Si}_7$ : Ultrafast Quasi-1D Diffusion and Two Distinct Fast 3D Jump Processes Separately Revealed by $^7\text{Li}$ NMR Relaxometry. Journal of the American Chemical Society, 2011, 133, 11018-11021.	13.7	117
16	Tuning the Li Diffusivity of Poor Ionic Conductors by Mechanical Treatment: High Li Conductivity of Strongly Defective $\text{LiTaO}_3$ Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 9291-9300.	3.1	112
17	NMR relaxometry as a versatile tool to study Li ion dynamics in potential battery materials. Solid State Nuclear Magnetic Resonance, 2012, 42, 2-8.	2.3	109
18	DFT Study of the Role of $\text{Al}^{3+}$ in the Fast Ion-Conductor $\text{Li}_3\text{AlGa}_3\text{Zr}_2\text{O}_{12}$ Garnet. Chemistry of Materials, 2014, 26, 2617-2623.		108

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19	Short-range Li diffusion vs. long-range ionic conduction in nanocrystalline lithium peroxide $\text{Li}_2\text{O}_2$ the discharge product in lithium-air batteries. Energy and Environmental Science, 2014, 7, 2739-2752.	30.8	104
20	Small Change Great Effect: Steep Increase of Li Ion Dynamics in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ at the Early Stages of Chemical Li Insertion. Chemistry of Materials, 2015, 27, 1740-1750.	6.7	102
21	Singlet Oxygen during Cycling of the Aprotic Sodium $\text{O}_2$ Battery. Angewandte Chemie - International Edition, 2017, 56, 15728-15732.	13.8	99
22	Li jump process in $\text{Li}_{0.7}\text{TiS}_2$ studied by two-time $^7\text{Li}$ NMR. Physical Chemistry Chemical Physics, 2015, 17, 32115-32121.	3.2	95
23	From Ultralow to Fast Lithium Diffusion in the 2D Ion Conductor $\text{Li}_0.7\text{TiS}_2$ Probed Directly by Stimulated-Echo NMR and Nuclear Magnetic Relaxation. Physical Review Letters, 2006, 97, 065901.	7.8	94
24	Superionic Diffusion through Frustrated Energy Landscape. Chem, 2019, 5, 2450-2460.	11.7	92
25	Fast Rotational Dynamics in Argyrodite-Type $\text{Li}_6\text{PS}_5\text{X}$ (X: Cl, Br, I) as Seen by $^31\text{P}$ Nuclear Magnetic Relaxation On Cation Anion Coupled Transport in Thiophosphates. Chemistry of Materials, 2019, 31, 4591-4597.	6.7	92
26	Diffusion in amorphous $\text{LiNbO}_3$ studied by $^7\text{Li}$ NMR comparison with the nano- and microcrystalline material Dedicated to Prof. Dr Hermann Schmalzried on the occasion of his 70th birthday.. Physical Chemistry Chemical Physics, 2002, 4, 3246-3251.	2.8	91
27	The natural critical current density limit for $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ garnets. Journal of Materials Chemistry A, 2020, 8, 15782-15788.	10.3	90
28	An Electrolyte for Reversible Cycling of Sodium Metal and Intercalation Compounds. ChemSusChem, 2017, 10, 401-408.	6.8	89
29	Very fast bulk Li ion diffusivity in crystalline $\text{Li}_{1.5}\text{Al}_{0.5}\text{Ti}_{1.5}(\text{PO}_4)_3$ as seen using NMR relaxometry. Physical Chemistry Chemical Physics, 2015, 17, 32115-32121.	2.8	83
30	Ion dynamics in solid electrolytes for lithium batteries. Journal of Electroceramics, 2017, 38, 142-156.	2.0	83
31	Interface Instability of Fe-Stabilized $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ versus Li Metal. Journal of Physical Chemistry C, 2018, 122, 3780-3785.	3.1	83
32	Mechanosynthesized $\text{BiFeO}_3$ Nanoparticles with Highly Reactive Surface and Enhanced Magnetization. Journal of Physical Chemistry C, 2011, 115, 7209-7217.	3.1	82
33	Electric field gradient calculations for $\text{Li}_x\text{TiS}_2$ and comparison with $^7\text{Li}$ NMR results. Physical Review B, 2004, 70, .	3.2	79
34	Order vs. disorder a huge increase in ionic conductivity of nanocrystalline $\text{LiAlO}_2$ embedded in an amorphous-like matrix of lithium aluminate. Journal of Materials Chemistry A, 2014, 2, 20295-20306.	10.3	79
35	Microscopic Li self-diffusion parameters in the lithiated anode material $\text{Li}_{4+x}\text{Ti}_5\text{O}_{12}$ ( $0 \leq x \leq 3$ ) measured by $^7\text{Li}$ solid state NMR. Physical Chemistry Chemical Physics, 2007, 9, 6199.	2.8	78
36	Fast Li diffusion in crystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}$ to reduced dimensionality: Frequency-dependent NMR spectroscopy. Physical Review B, 2010, 82, .	4.2	78

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37	Mechanically Induced Phase Transformation of $\text{Al}_2\text{O}_3$ into $\text{Al}_2\text{O}_3$ . Access to Structurally Disordered $\text{Al}_2\text{O}_3$ with a Controllable Amount of Pentacoordinated Al Sites. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22770-22780.	3.1	77
38	“a promising electrolyte concept for high-temperature lithium batteries?”. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12341-12349.	2.8	76
39	Anion diffusivity in highly conductive nanocrystalline $\text{BaF}_2\text{:CaF}_2$ composites prepared by high-energy ball milling. <i>Journal of Materials Chemistry</i> , 2008, 18, 5412.	6.7	73
40	Heterogeneous lithium diffusion in nanocrystalline $\text{Li}_2\text{O:Al}_2\text{O}_3$ composites. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2225-2231.	2.8	71
41	Long-range $\text{Li}^+$ dynamics in the lithium argyrodite $\text{Li}_7\text{PSe}_6$ as probed by rotating-frame spin-lattice relaxation NMR. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7123.	2.8	70
42	Untangling the Structure and Dynamics of Lithium-Rich Anti-Perovskites Envisaged as Solid Electrolytes for Batteries. <i>Chemistry of Materials</i> , 2018, 30, 8134-8144.	6.7	70
43	Mixed Alkaline-Earth Effect in the Metastable Anion Conductor $\text{Ba}_{1-x}\text{Ca}_x\text{F}_2$ (0 $\leq x \leq 1$ ): Correlating Long-Range Ion Transport with Local Structures Revealed by Ultrafast $^{19}\text{F}$ MAS NMR. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23784-23789.	3.1	65
44	Site Occupation of Ga and Al in Stabilized Cubic $\text{Li}_7\text{Al}_3\text{Ga}_x\text{Al}_y\text{La}_3\text{Zr}_2\text{O}_{12}$ Garnets As Deduced from $^{27}\text{Al}$ and $^{71}\text{Ga}$ MAS NMR at Ultrahigh Magnetic Fields. <i>Chemistry of Materials</i> , 2015, 27, 3135-3142.	6.7	65
45	Lithium motion in the anode material $\text{LiC}_6$ as seen via time-domain $^7\text{Li}$ NMR. <i>Physical Review B</i> , 2013, 88, .	3.2	63
46	Macroscopic and microscopic $\text{Li}^+$ transport parameters in cubic garnet-type $\text{Li}_6.5\text{La}_2.5\text{Ba}_0.5\text{ZrTaO}_{12}$ as probed by impedance spectroscopy and NMR. <i>RSC Advances</i> , 2012, 2, 2553.	3.6	62
47	Ion Dynamics in Solid Electrolytes: NMR Reveals the Elementary Steps of $\text{Li}^+$ Hopping in the Garnet $\text{Li}_6.5\text{La}_3\text{Zr}_1.75\text{Mo}_0.25\text{O}_{12}$ . <i>Chemistry of Materials</i> , 2015, 27, 6571-6582.	6.7	60
48	Solid Electrolytes: Extremely Fast Charge Carriers in Garnet-type $\text{Li}_6\text{La}_3\text{ZrTaO}_{12}$ Single Crystals. <i>Annalen Der Physik</i> , 2017, 529, 1700140.	2.4	60
49	Ion Dynamics at Interfaces: Nuclear Magnetic Resonance Studies. <i>MRS Bulletin</i> , 2009, 34, 915-922.	3.5	56
50	Atomic-scale measurement of ultraslow Li motions in glassy $\text{LiAlSi}_2\text{O}_6$ by two-time $^6\text{Li}$ spin-alignment echo NMR correlation spectroscopy. <i>Physical Review B</i> , 2008, 78, .	3.2	54
51	Mechanosynthesized nanocrystalline $\text{BaLiF}_3$ : The impact of grain boundaries and structural disorder on ionic transport. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11251.	2.8	54
52	Ionic Conduction Mechanism in the $\text{Na}_2(\text{B}_{12}\text{H}_{12})_{0.5}(\text{B}_{10}\text{H}_{10})_{0.5}$ -Borate Solid-State Electrolyte: Interplay of Disorder and Ion-Ion Interactions. <i>Chemistry of Materials</i> , 2019, 31, 3449-3460.	6.7	54
53	Ion transport and diffusion in nanocrystalline and glassy ceramics. <i>European Physical Journal: Special Topics</i> , 2008, 161, 97-108.	2.6	53
54	Correlated fluorine diffusion and ionic conduction in the nanocrystalline $\text{F}^{\delta-}$ solid electrolyte $\text{Ba}_{0.6}\text{La}_{0.4}\text{F}_{2.4}$ $^{19}\text{F}$ $T_1$ NMR relaxation vs. conductivity measurements. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9580-9590.	2.8	50

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55	Unravelling Ultraslow Lithium-Ion Diffusion in $\hat{\text{I}}^3\text{-LiAlO}_2$ : Experiments with Tracers, Neutrons, and Charge Carriers. <i>Chemistry of Materials</i> , 2016, 28, 915-924.	6.7	49
56	Synthesis, Crystal Structure, and Stability of Cubic $\text{Li}_7\text{La}_3\text{Zr}_2\text{Bi}_2\text{O}_{12}$ . <i>Inorganic Chemistry</i> , 2016, 55, 12211-12219.	4.0	48
57	Diffusion in Confined Dimensions: $\text{Li}^+$ Transport in Mixed Conducting $\text{TiO}_2\text{-B}$ Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4741-4744.	3.1	45
58	High anion conductivity in a ternary non-equilibrium phase of $\text{BaF}_2$ and $\text{CaF}_2$ with mixed cations. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3071.	2.8	45
59	Extremely slow cation exchange processes in $\text{Li}_4\text{SiO}_4$ probed directly by two-time $^7\text{Li}$ stimulated-echo nuclear magnetic resonance spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 9849-9862.	1.8	44
60	Understanding the Origin of Enhanced Li-Ion Transport in Nanocrystalline Argyrodite-Type $\text{Li}_6\text{PS}_5\text{I}$ . <i>Chemistry of Materials</i> , 2020, 32, 4754-4766.	6.7	44
61	Extremely slow Li ion dynamics in monoclinic $\text{Li}_2\text{TiO}_3$ probing macroscopic jump diffusion via $^7\text{Li}$ NMR stimulated echoes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11974.	2.8	43
62	New prospects in studying Li diffusion two-time stimulated echo NMR of spin-3/2 nuclei. <i>Solid State Ionics</i> , 2006, 177, 3031-3036.	2.7	41
63	Ultraslow Li Exchange Processes in Diamagnetic $\text{Li}_2\text{ZrO}_3$ As Monitored by EXSY NMR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8114-8119.	3.1	41
64	Microscopic Access to Long-Range Diffusion Parameters of the Fast Lithium Ion Conductor $\text{Li}_7\text{BiO}_6$ by Solid State $^7\text{Li}$ Stimulated Echo NMR. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8691-8694.	2.6	40
65	Discriminating the Mobile Ions from the Immobile Ones in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ : $^6\text{Li}$ NMR Reveals the Main $\text{Li}^+$ Diffusion Pathway and Proposes a Refined Lithiation Mechanism. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11372-11381.	3.1	40
66	Mechanochemically synthesized fluorides: local structures and ion transport. <i>Dalton Transactions</i> , 2016, 45, 8675-8687.	3.3	40
67	Li NMR Spectroscopy on Crystalline $\text{Li}_{12}\text{Si}_7$ : Experimental Evidence for the Aromaticity of the Planar Cyclopentadienyl-Analogous $\text{Si}_5^{6+}$ Rings. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12099-12102.	13.8	39
68	Enhancing Photoinduced Electron Transfer Efficiency of Fluorescent pH-Probes with Halogenated Phenols. <i>Analytical Chemistry</i> , 2014, 86, 9293-9300.	6.5	39
69	Access to metastable complex ion conductors via mechanosynthesis: preparation, microstructure and conductivity of $(\text{Ba},\text{Sr})\text{LiF}_3$ with inverse perovskite structure. <i>Journal of Materials Chemistry</i> , 2011, 21, 6238.	6.7	38
70	Fast Li Ion Dynamics in the Solid Electrolyte $\text{Li}_7\text{P}_3\text{S}_{11}$ as Probed by $^6,7\text{Li}$ NMR Spin-Lattice Relaxation. <i>ChemPhysChem</i> , 2015, 16, 2582-2593.	2.1	38
71	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> , 2017, 164, A3503-A3510.	2.9	38
72	Opening Diffusion Pathways through Site Disorder: The Interplay of Local Structure and Ion Dynamics in the Solid Electrolyte $\text{Li}_6\text{P}_1\text{Ge}_1\text{S}_5\text{I}$ as Probed by Neutron Diffraction and NMR. <i>Journal of the American Chemical Society</i> , 2022, 144, 1795-1812.	13.7	38

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73	A simple and straightforward mechanochemical synthesis of the far-from-equilibrium zinc aluminate, $ZnAl_2O_4$ , and its response to thermal treatment. RSC Advances, 2015, 5, 54321-54328.	3.6	37
74	Evaluating the trade-off between mechanical and electrochemical performance of separators for lithium-ion batteries: Methodology and application. Journal of Power Sources, 2016, 306, 702-710.	7.8	37
75	Bulk and grain-boundary ionic conductivity in sodium zirconophosphosilicate $Na_3Zr_2(SiO_4)_2PO_4$ (NASICON). Chemical Physics Letters, 2018, 701, 147-150.	2.6	37
76	Ion dynamics in Al-Stabilized $Li_7La_3Zr_2O_{12}$ single crystals – Macroscopic transport and the elementary steps of ion hopping. Energy Storage Materials, 2020, 24, 220-228.	18.0	37
77	Rapid Li Ion Dynamics in the Interfacial Regions of Nanocrystalline Solids. Journal of Physical Chemistry Letters, 2018, 9, 2093-2097.	4.6	36
78	Mechanically induced decrease of the Li conductivity in an aluminosilicate glass. Solid State Ionics, 2009, 180, 302-307.	2.7	35
79	The microstructure matters: breaking down the barriers with single crystalline silicon as negative electrode in Li-ion batteries. Scientific Reports, 2016, 6, 31712.	3.3	35
80	Dispersed Solid Conductors: Fast Interfacial Li-Ion Dynamics in Nanostructured $LiF$ and $LiF:Al_2O_3$ Composites. Journal of Physical Chemistry C, 2019, 123, 5222-5230.	3.1	35
81	Motion of $Li^{+}$ in Nanoengineered $LiBH_4$ and $LiBH_4:Al_2O_3$ Comparison with the Microcrystalline Form. ChemPhysChem, 2013, 14, 3706-3713.	2.1	33
82	The Electronic Conductivity of Single Crystalline Ga-Stabilized Cubic $Li_7La_3Zr_2O_{12}$ : A Technologically Relevant Parameter for All-Solid-State Batteries. Advanced Materials Interfaces, 2020, 7, 2000450.	3.7	33
83	Synthesis of ternary transition metal fluorides $Li_3MF_6$ via a sol-gel route as candidates for cathode materials in lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 15819.	6.7	32
84	Li Ion Dynamics in Al-Doped Garnet-Type $Li_7La_3Zr_2O_{12}$ Crystallizing with Cubic Symmetry. Zeitschrift Fur Physikalische Chemie, 2012, 226, 525-537.	2.8	32
85	Combined Effects of Anion Substitution and Nanoconfinement on the Ionic Conductivity of Li-Based Complex Hydrides. Journal of Physical Chemistry C, 2020, 124, 2806-2816.	3.1	32
86	Li diffusion properties of mixed conducting $TiO_2$ -Bnanowires. Physical Review B, 2009, 80, .	3.2	31
87	Structure and ion dynamics of mechanothesized oxides and fluorides. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 107-127.	0.8	30
88	Diffusion parameters in single-crystalline $Li_3N$ as probed by $^6Li$ and $^7Li$ spin-alignment echo NMR spectroscopy in comparison with results from $^8Li$ $\beta$ -radiation detected NMR. Journal of Physics Condensed Matter, 2008, 20, 022201.	1.8	29
89	Towards a lattice-matching solid-state battery: synthesis of a new class of lithium-ion conductors with the spinel structure. Physical Chemistry Chemical Physics, 2013, 15, 6107.	2.8	29
90	Nuclear Spin Relaxation in Nanocrystalline $^2Li_3PS_4$ Reveals Low-Dimensional Li Diffusion in an Isotropic Matrix. Chemistry of Materials, 2018, 30, 7575-7586.	6.7	29

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91	Safety assessment of electrically cycled cells at high temperatures under mechanical crush loads. <i>Transportation</i> , 2020, 6, 100087.	14.8	29
92	High-Energy Mechanical Treatment Boosts Ion Transport in Nanocrystalline $\text{Li}_2\text{BO}_7$ . <i>Journal of the American Ceramic Society</i> , 2016, 99, 1687-1693.	3.8	26
93	Analytical Dissection of an Automotive Li-Ion Pouch Cell. <i>Batteries</i> , 2019, 5, 67.	4.5	26
94	Li-Ion Diffusion in Nanoconfined $\text{LiBH}_4\text{-Li/Al}_2\text{O}_3$ : From 2D Bulk Transport to 3D Long-Range Interfacial Dynamics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38570-38583.	8.0	26
95	Defect-enhanced $F^{+}$ ion conductivity in layer-structured nanocrystalline $\text{BaSnF}_4$ prepared by high-energy ball milling combined with soft annealing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 10-14.	0.8	25
96	Long-Cycle-Life Na-Ion Anodes Based on Amorphous Titania Nanotubes Interfaces and Diffusion. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25757-25769.	8.0	25
97	Solid-State NMR to Study Translational Li Ion Dynamics in Solids with Low-Dimensional Diffusion Pathways. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 1215-1241.	2.8	25
98	Nanostructured Ceramics: Ionic Transport and Electrochemical Activity. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 1361-1405.	2.8	25
99	Mismatch in cation size causes rapid anion dynamics in solid electrolytes: the role of the Arrhenius pre-factor. <i>Dalton Transactions</i> , 2018, 47, 4105-4117.	3.3	25
100	Long-Chain Li and Na Alkyl Carbonates as Solid Electrolyte Interphase Components: Structure, Ion Transport, and Mechanical Properties. <i>Chemistry of Materials</i> , 2018, 30, 3338-3345.	6.7	25
101	Ultraslow Diffusion in Polycrystalline $\text{h-LiTiS}_2$ ; Studied by $^7\text{Li}$ Spin-Alignment Echo NMR Spectroscopy. <i>Defect and Diffusion Forum</i> , 2005, 237-240, 1182-1187.	0.4	24
102	Li ion dynamics in $\text{TiO}_2$ anode materials with an ordered hierarchical pore structure insights from ex situ NMR. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1894-1901.	2.8	24
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> , 2016, 207, 218-223.	5.2	24
104	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 Mössbauer spectroscopy studies. <i>European Journal of Mineralogy</i> , 2016, 28, 619-629.	1.3	24
105	Quantifying Total Superoxide, Peroxide, and Carbonaceous Compounds in Metal-O <sub>2</sub> Batteries and the Solid Electrolyte Interphase. <i>ACS Energy Letters</i> , 2018, 3, 170-176.	17.4	24
106	F anion dynamics in cation-mixed nanocrystalline $\text{LaF}_3\text{:SrF}_2$ . <i>Journal of Materials Science</i> , 2018, 53, 13669-13681.	3.7	24
107	Highly Conductive Garnet-Type Electrolytes: Access to $\text{Li}_{6.5}\text{La}_3\text{Zr}_{1.5}\text{Ta}_{0.5}\text{O}_{12}$ Prepared by Molten Salt and Solid-State Methods. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48580-48590.	8.0	24
108	Fast Li Ion Dynamics in the Mechanothesized Nanostructured Form of the Solid Electrolyte $\text{Li}_3\text{YBr}_6$ . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 743-755.	6.7	24

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109	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> , 2021, 11, 2003542.	19.5	24
110	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> , 2016, 2, 8.	4.5	23
111	Li intercalation and anion/cation substitution of transition metal chalcogenides: Effects on crystal structure, microstructure, magnetic properties and Li <sup>+</sup> ion mobility. <i>Progress in Solid State Chemistry</i> , 2009, 37, 206-225.	7.2	22
112	Li Ion Dynamics along the Inner Surfaces of Layer-Structured 2H-LiNbS <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 4089-4099.	8.0	22
113	Fast Na ion transport triggered by rapid ion exchange on local length scales. <i>Scientific Reports</i> , 2018, 8, 11970.	3.3	22
114	Tracking Ions the Direct Way: Long-Range Li <sup>+</sup> Dynamics in the Thio-LISICON Family Li <sub>4</sub> MCh <sub>4</sub> (M = Sn, Ge; Ch = S, Se) as Probed by <sup>7</sup> Li NMR Relaxometry and <sup>7</sup> Li Spin-Alignment Echo NMR. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2306-2317.	3.1	22
115	Nascent SEI-Surface Films on Single Crystalline Silicon Investigated by Scanning Electrochemical Microscopy. <i>ACS Applied Energy Materials</i> , 2019, 2, 1388-1392.	5.1	21
116	Ionic Conductivity of Nanocrystalline and Amorphous Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> : The Detrimental Impact of Local Disorder on Ion Transport. <i>Journal of the American Chemical Society</i> , 2022, 144, 9597-9609.	13.7	21
117	Spin-alignment echo NMR: probing Li <sup>+</sup> -hopping motion in the solid electrolyte Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> with garnet-type tetragonal structure. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 035901.	1.8	20
118	Evidence of low dimensional ion transport in mechanosynthesized nanocrystalline BaMgF <sub>4</sub> . <i>Dalton Transactions</i> , 2014, 43, 9901-9908.	3.3	20
119	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> , 2016, 120, 3130-3138.	3.1	20
120	Heterogeneous F anion transport, local dynamics and electrochemical stability of nanocrystalline La <sup>1+</sup> Ba F <sub>3</sub> . <i>Energy Storage Materials</i> , 2019, 16, 481-490.	18.0	20
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