Paul Heitjans

List of Publications by Citations

135 papers	5,330 citations	38 h-index	70 g-index
148 ext. papers	5,958 ext. citations	5 avg, IF	5.62 L-index

#	Paper	IF	Citations
135	Li7La3Zr2O12 Interface Modification for Li Dendrite Prevention. *ACS Applied Materials & Interfaces*, **2016**, 8, 10617-26	9.5	489
134	Structure and dynamics of the fast lithium ion conductor "Li7La3Zr2O12". *Physical Chemistry Chemical Physics*, **2011**, 13, 19378-92	3.6	446
133	Nanocrystalline Nickel Ferrite, NiFe2O4: Mechanosynthesis, Nonequilibrium Cation Distribution, Canted Spin Arrangement, and Magnetic Behavior. *Journal of Physical Chemistry C*, **2007**, 111, 5026-5033	3.8	285
132	Mechanochemical reactions and syntheses of oxides. *Chemical Society Reviews*, **2013**, 42, 7507-20	58.5	226
131	Diffusion and ionic conduction in nanocrystalline ceramics. *Journal of Physics Condensed Matter*, **2003**, 15, R1257-R1289	1.8	217
130	Nonequilibrium Cation Distribution, Canted Spin Arrangement, and Enhanced Magnetization in Nanosized MgFe2O4 Prepared by a One-Step Mechanochemical Route. *Chemistry of Materials*, **2006** , 18, 3057-3067	9.6	159
129	Ultraslow Li diffusion in spinel-type structured Li4Ti5O12 - a comparison of results from solid state NMR and impedance spectroscopy. *Physical Chemistry Chemical Physics*, **2007**, 9, 1239-46	3.6	131
128	NMR and impedance studies of nanocrystalline and amorphous ion conductors: lithium niobate as a model system. *Faraday Discussions*, **2007**, 134, 67-82; discussion 103-18, 415-9	3.6	127
127	Multi-anionic and -cationic compounds: new high entropy materials for advanced Li-ion batteries. *Energy and Environmental Science*, **2019**, 12, 2433-2442	35.4	121
126	Nanocrystalline versus microcrystalline Li(2)O:B(2)O3 composites: anomalous ionic conductivities and percolation theory. *Physical Review Letters*, **2000**, 84, 2889-92	7.4	106
125	Theoretical Study of Li Migration in Lithium□Graphite Intercalation Compounds with Dispersion-Corrected DFT Methods. *Journal of Physical Chemistry C*, **2014**, 118, 2273-2280	3.8	104
124	From micro to macro: access to long-range Li+ diffusion parameters in solids via microscopic (6, 7) Li spin-alignment echo NMR spectroscopy. *ChemPhysChem*, **2012**, 13, 53-65	3.2	104
123	Li ion diffusion in the anode material Li12Si7: ultrafast quasi-1D diffusion and two distinct fast 3D jump processes separately revealed by 7Li NMR relaxometry. *Journal of the American Chemical Society*, **2011**, 133, 11018-21	16.4	104
122	Mechanosynthesis of Solid Electrolytes: Preparation, Characterization, and Li Ion Transport Properties of Garnet-Type Al-Doped Li7La3Zr2O12 Crystallizing with Cubic Symmetry. *Journal of Physical Chemistry C*, **2012**, 116, 15192-15202	3.8	102
121	NMR relaxometry as a versatile tool to study Li ion dynamics in potential battery materials. *Solid State Nuclear Magnetic Resonance*, **2012**, 42, 2-8	3.1	94
120	Novel Cobalt-Free Oxygen-Permeable Perovskite-Type Membrane. *Chemistry of Materials*, **2010**, 22, 1540-1544	9.6	81
119	Diffusion in amorphous LiNbO3 studied by 7Li NMR □comparison with the nano- and microcrystalline material. *Physical Chemistry Chemical Physics*, **2002**, 4, 3246-3251	3.6	76

118	Nonequilibrium structure of Zn2SnO4 spinel nanoparticles. *Journal of Materials Chemistry*, **2012**, 22, 3117		75
117	Electric field gradient calculations for LixTiS2 and comparison with Li7 NMR results. *Physical Review B*, **2004**, 70,	3.3	74
116	Microscopic Li self-diffusion parameters in the lithiated anode material Li4 + xTi5O12 (0 Physical Chemistry Chemical Physics, **2007**, 9, 6199-202	3.6	72
115	Mechanosynthesized BiFeO3 Nanoparticles with Highly Reactive Surface and Enhanced Magnetization. *Journal of Physical Chemistry C*, **2011**, 115, 7209-7217	3.8	70
114	Inhomogeneous degradation of graphite anodes in automotive lithium ion batteries under low-temperature pulse cycling conditions. *Journal of Power Sources*, **2016**, 307, 806-814	8.9	64
113	Anion diffusivity in highly conductive nanocrystalline BaF2:CaF2 composites prepared by high-energy ball milling. *Journal of Materials Chemistry*, **2008**, 18, 5412		63
112	Preparation by high-energy milling, characterization, and catalytic properties of nanocrystalline TiO2. *Journal of Physical Chemistry B*, **2005**, 109, 23274-8	3.4	63
111	Heterogeneous lithium diffusion in nanocrystalline Li2O:Al2O3 composites. *Physical Chemistry Chemical Physics*, **2003**, 5, 2225-2231	3.6	63
110	Li Ion Dynamics in a LiAlO2 Single Crystal Studied by 7Li NMR Spectroscopy and Conductivity Measurements. *Journal of Physical Chemistry C*, **2012**, 116, 14243-14247	3.8	58
109	Fast diffusion in nanocrystalline ceramics prepared by ball milling. *Journal of Materials Science*, **2004**, 39, 5091-5096	4.3	56
108	Atomic-scale measurement of ultraslow Li motions in glassy LiAlSi2O6 by two-time L6i spin-alignment echo NMR correlation spectroscopy. *Physical Review B*, **2008**, 78,	3.3	52
107	Li+ Diffusion and Its Structural Basis in the Nanocrystalline and Amorphous Forms of Two-Dimensionally Ion-Conducting LixTiS2. *Journal of Physical Chemistry B*, **2001**, 105, 6108-6115	3.4	47
106	Ion Dynamics at Interfaces: Nuclear Magnetic Resonance Studies. *MRS Bulletin*, **2009**, 34, 915-922	3.2	46
105	NMR Investigations on Ion Dynamics and Structure in Nanocrystalline and Polycrystalline LiNbO3. *Journal of Physical Chemistry B*, **2001**, 105, 9162-9170	3.4	45
104	Extremely slow Li ion dynamics in monoclinic Li2TiO3--probing macroscopic jump diffusion via 7Li NMR stimulated echoes. *Physical Chemistry Chemical Physics*, **2012**, 14, 11974-80	3.6	43
103	Mechanosynthesized nanocrystalline BaLiF(3): The impact of grain boundaries and structural disorder on ionic transport. *Physical Chemistry Chemical Physics*, **2010**, 12, 11251-62	3.6	43
102	Ion transport and diffusion in nanocrystalline and glassy ceramics. *European Physical Journal: Special Topics*, **2008**, 161, 97-108	2.3	43
101	Heterogeneous 7Li NMR relaxation in nanocrystalline Li2O:B2O3 composites. *Journal of Non-Crystalline Solids*, **2002**, 307-310, 555-564	3.9	43

100	A One-Step Mechanochemical Route to Core□Shell Ca2SnO4 Nanoparticles Followed by 119Sn MAS NMR and 119Sn M□ssbauer Spectroscopy. *Chemistry of Materials*, **2009**, 21, 2518-2524	9.6	42
99	Microscopic access to long-range diffusion parameters of the fast lithium ion conductor Li7BiO6 by solid state 7Li stimulated echo NMR. *Journal of Physical Chemistry B*, **2007**, 111, 8691-4	3.4	39
98	Extremely slow cation exchange processes in Li4SiO4probed directly by two-time7Li stimulated-echo nuclear magnetic resonance spectroscopy. *Journal of Physics Condensed Matter*, **2006**, 18, 9849-9862	1.8	39
97	Is Geometric Frustration-Induced Disorder a Recipe for High Ionic Conductivity?. *Journal of the American Chemical Society*, **2017**, 139, 5842-5848	16.4	38
96	High-resolution 27Al MAS NMR spectroscopic studies of the response of spinel aluminates to mechanical action. *Journal of Materials Chemistry*, **2011**, 21, 8332		37
95	Li NMR spectroscopy on crystalline Li12Si7: experimental evidence for the aromaticity of the planar cyclopentadienyl-analogous Si5(6-) rings. *Angewandte Chemie - International Edition*, **2011**, 50, 12099-102	16.4	33
94	Impedance Spectroscopy Study of Li Ion Dynamics in Single Crystal, Microcrystalline, Nanocrystalline and Amorphous LiNbO3. *Defect and Diffusion Forum*, **2005**, 237-240, 1016-1021	0.7	32
93	AC and DC Conductivity in Nano- and Microcrystalline Li2O : B2O3 Composites: Experimental Results and Theoretical Models. *Zeitschrift Fur Physikalische Chemie*, **2005**, 219, 89-103	3.1	32
92	Unravelling Ultraslow Lithium-Ion Diffusion in □-LiAlO2: Experiments with Tracers, Neutrons, and Charge Carriers. *Chemistry of Materials*, **2016**, 28, 915-924	9.6	31
91	Synthesis of ternary transition metal fluorides Li3MF6via a sol□gel route as candidates for cathode materials in lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 15819		31
90	Solid-State NMR Investigations on the Structure and Dynamics of the Ionic Conductor Li1+xAlxTi2□(PO4)3 (0.0 □x □1.0). *Journal of Physical Chemistry C*, **2016**, 120, 8436-8442	3.8	31
89	A simple and straightforward mechanochemical synthesis of the far-from-equilibrium zinc aluminate, ZnAl2O4, and its response to thermal treatment. *RSC Advances*, **2015**, 5, 54321-54328	3.7	29
88	Li Ion Dynamics in Al-Doped Garnet-Type Li7La3Zr2O12 Crystallizing with Cubic Symmetry. *Zeitschrift Fur Physikalische Chemie*, **2012**, 226, 525-537	3.1	29
87	Mechanically induced decrease of the Li conductivity in an alumosilicate glass. *Solid State Ionics*, **2009**, 180, 302-307	3.3	29
86	Mechanosynthesis of nanocrystalline fayalite, Fe2SiO4. *Chemical Communications*, **2012**, 48, 11121-3	5.8	28
85	Diffusion parameters in single-crystalline Li3N as probed by6Li and7Li spin-alignment echo NMR spectroscopy in comparison with results from8Li □-radiation detected NMR. *Journal of Physics Condensed Matter*, **2008**, 20, 022201	1.8	26
84	Tracer diffusion measurements in solid lithium: a test case for the comparison between NMR in static and pulsed magnetic field gradients after upgrading a standard solid state NMR spectrometer. *Solid State Nuclear Magnetic Resonance*, **2004**, 26, 74-83	3.1	26
83	Near constant loss in glassy and crystalline LiAlSi[sub 2]O[sub 6] from conductivity relaxation measurements. *Journal of Chemical Physics*, **2001**, 114, 931	3.9	26

82	Structure and ion dynamics of mechanosynthesized oxides and fluorides. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2017**, 232, 107-127	1	25
81	NMR and NMR Studies of Diffusion in Interface-Dominated and Disordered Solids **2005**, 367-415		24
80	Ultraslow Diffusion in Polycrystalline h-LiTiS2 Studied by 7Li Spin-Alignment Echo NMR Spectroscopy. *Defect and Diffusion Forum*, **2005**, 237-240, 1182-1187	0.7	24
79	Li ion transport and interface percolation in nano- and microcrystalline composites. *Physical Chemistry Chemical Physics*, **2004**, 006, 3680-3683	3.6	23
78	Insight into the Li Ion Dynamics in Li12Si7: Combining Field Gradient Nuclear Magnetic Resonance, One- and Two-Dimensional Magic-Angle Spinning Nuclear Magnetic Resonance, and Nuclear Magnetic Resonance Relaxometry. *Journal of Physical Chemistry C*, **2014**, 118, 28350-28360	3.8	20
77	Defect formation during high-energy ball milling in TiO2 and its relation to the photocatalytic activity. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 207, 231-235	4.7	20
76	Li intercalation and anion/cation substitution of transition metal chalcogenides: Effects on crystal structure, microstructure, magnetic properties and Li+ ion mobility. *Progress in Solid State Chemistry*, **2009**, 37, 206-225	8	20
75	Local electronic structure in a LiAlO2 single crystal studied with Li7 NMR spectroscopy and comparison with quantum chemical calculations. *Physical Review B*, **2006**, 74,	3.3	20
74	Enhanced conductivity at the interface of Li2O:B2O3 nanocomposites: atomistic models. *Physical Review Letters*, **2007**, 99, 145502	7.4	19
73	Li Si thin films for battery applications produced by ion-beam co-sputtering. *RSC Advances*, **2015**, 5, 7192-7195	3.7	18
72	From composites to solid solutions: modeling of ionic conductivity in the CaF2-BaF2 system. *Chemistry - A European Journal*, **2012**, 18, 6225-9	4.8	18
71	Single-crystal neutron diffraction on LiAlO2: structure determination and estimation of lithium diffusion pathway. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2016**, 231, 189-193	1	17
70	Solid-State NMR to Study Translational Li Ion Dynamics in Solids with Low-Dimensional Diffusion Pathways. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231, 1215-1241	3.1	17
69	Tuning the structural and physical properties of Cr2Ti3Se8 by lithium intercalation: a study of the magnetic properties, investigation of ion mobility with NMR spectroscopy and electronic band structure calculations. *Journal of the American Chemical Society*, **2008**, 130, 288-99	16.4	17
68	Fast dynamics of H2O in hydrous aluminosilicate glasses studied with quasielastic neutron scattering. *Physical Review B*, **2005**, 71,	3.3	17
67	Fast Ion Conducting Nanocrystalline Alkaline Earth Fluorides Simply Prepared by Mixing or Manual Shaking. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2013**, 639, 960-966	1.3	16
66	Li-NMR-Spektroskopie an kristallinem Li12Si7: zur Aromatizität planarer, Cyclopentadienyl-analoger Si56-Ringe. *Angewandte Chemie*, **2011**, 123, 12305-12308	3.6	16
65	Self-Diffusion of Lithium in Amorphous Lithium Niobate Layers. *Zeitschrift Fur Physikalische Chemie*, **2012**, 226, 439-448	3.1	15

64	Transfer and State Changes of Fluorine at Polytetrafluoroethylene/Titania Boundaries by Mechanical Stressing and Thermal Annealing. *Journal of Physical Chemistry C*, **2013**, 117, 15272-15278	3.8	15
63	Li Ion Diffusion in Nanocrystalline and Nanoglassy LiAlSi2O6 and LiBO2 - Structure-Dynamics Relations in Two Glass Forming Compounds. *Zeitschrift Fur Physikalische Chemie*, **2009**, 223, 1359-1377	3.1	15
62	Low-Temperature DC Conductivity of LiNbO3 Single Crystals. *Zeitschrift Fur Physikalische Chemie*, **2012**, 226, 431-437	3.1	15
61	The ionic conductivity in lithium-boron oxide materials and its relation to structural, electronic and defect properties: insights from theory. *Journal of Physics Condensed Matter*, **2012**, 24, 203201	1.8	14
60	Lithium Intercalation into Monoclinic Cr4TiSe8: Synthesis, Structural Phase Transition, and Properties of LixCr4TiSe8 (x = 0.1□.8). *Chemistry of Materials*, **2006**, 18, 1569-1576	9.6	14
59	Effect of the Degree of Inversion on the Electrical Conductivity of Spinel ZnFe2O4. *ChemistrySelect*, **2019**, 4, 1232-1239	1.8	13
58	NMR and Impedance Spectroscopy Studies on Lithium Ion Diffusion in Microcrystalline □LiAlO2. *Zeitschrift Fur Physikalische Chemie*, **2015**, 229, 1327-1339	3.1	13
57	Structural Analysis and Li Migration Pathways in Ramsdellite Li2Ti3O7: A Theoretical Study. *Journal of Physical Chemistry C*, **2016**, 120, 5-10	3.8	13
56	Li Conductivity of Nanocrystalline Li4Ti5O12 Prepared by a Sol-Gel Method and High-Energy Ball Milling. *Defect and Diffusion Forum*, **2009**, 289-292, 565-570	0.7	13
55	Diffusion in Nanocrystalline Ion Conductors Studied by Solid State NMR and Impedance Spectroscopy. *Defect and Diffusion Forum*, **2009**, 283-286, 705-715	0.7	13
54	Li Diffusion in Nano- and Microcrystalline (1-x)Li2O:xB2O3. *Defect and Diffusion Forum*, **2001**, 194-199, 935-940	0.7	13
53	Oxygen-18 surface exchange and diffusion in Li2O-deficient single crystalline lithium niobate. *Solid State Sciences*, **2008**, 10, 746-753	3.4	12
52	Symmetry reduction due to gallium substitution in the garnet Li6.43(2)Ga0.52(3)La2.67(4)Zr2O12. *Acta Crystallographica Section E: Crystallographic Communications*, **2016**, 72, 287-9	0.7	12
51	1H-NMR measurements of proton mobility in nano-crystalline YSZ. *Physical Chemistry Chemical Physics*, **2013**, 15, 19825-30	3.6	11
50	Formation and Mobility of Li Point Defects in LiBO2: A First-Principles Investigation. *Journal of Physical Chemistry C*, **2011**, 115, 12343-12349	3.8	10
49	Using light, X-rays and electrons for evaluation of the nanostructure of layered materials. *Nanoscale*, **2018**, 10, 21142-21150	7.7	10
48	Slow Lithium Transport in Metal Oxides on the Nanoscale. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231,	3.1	8
47	Insights into Li(+) Migration Pathways in □Li3VF6: A First-Principles Investigation. *Journal of Physical Chemistry Letters*, **2012**, 3, 3120-4	6.4	8

46	Mechanochemical Preparation and Characterization of Nanocrystalline Ceramic Composites. *Materials Science Forum*, **2000**, 343-346, 417-422	0.4	8
45	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.. *Journal of the American Chemical Society*, **2022**,	16.4	8
44	Two-Dimensional Substitution: Toward a Better Understanding of the Structure□Transport Correlations in the Li-Superionic Thio-LISICONs. *Chemistry of Materials*, **2021**, 33, 727-740	9.6	8
43	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. *Journal of Physical Chemistry C*, **2021**, 125, 2306-2317	3.8	8
42	Tuning the Vacancy Concentration in Lithium Germanium Antimony Telluride□Influence on Phase Transitions, Lithium Mobility, and Thermoelectric Properties. *Chemistry of Materials*, **2018**, 30, 7970-7978	9.6	8
41	Lithium Permeation through Thin Lithium□Silicon Films for Battery Applications Investigated by Neutron Reflectometry. *Energy Technology*, **2016**, 4, 1582-1587	3.5	7
40	On the mechanisms of ionic conductivity in BaLiF3: a molecular dynamics study. *Physical Chemistry Chemical Physics*, **2011**, 13, 21492-5	3.6	7
39	Local electronic structure in MgB2 from B12 □NMR. *Physical Review B*, **2007**, 75,	3.3	7
38	Intergranular structure of nanocrystalline layered LixTiS2 as derived from 7Li NMR spectroscopy. *Journal of Non-Crystalline Solids*, **2001**, 293-295, 19-24	3.9	7
37	Local Ion Dynamics in Polycrystalline □LiGaO2: A Solid-State NMR Study. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231,	3.1	6
36	Lithium Diffusion Mechanisms in □LiMO2 (M = Al, Ga): A Combined Experimental and Theoretical Study. *Journal of Physical Chemistry C*, **2017**, 121, 27788-27796	3.8	6
35	Lithium Diffusion in Ion-Beam Sputtered Amorphous LiAlO2. *Zeitschrift Fur Physikalische Chemie*, **2015**, 229, 1341-1350	3.1	6
34	Multinuclear NMR spectroscopic studies of structure and dynamics in hydrous NaAlSi3O8 and Ca0.5AlSi3O8 glasses. *Journal of Non-Crystalline Solids*, **2012**, 358, 2862-2867	3.9	6
33	NMR relaxation and line shape study on Li+ diffusion in nanocrystalline layer-structured LixTiS2. *Scripta Materialia*, **1999**, 12, 883-886		6
32	Low-Temperature Synthesis, Characterization, and Stability of Spinel-Type Li2NiF4 and Solid-Solutions Li2Ni1□CoxF4. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2013**, 639, 326-333	1.3	5
31	Combined mechanochemical/thermal synthesis of microcrystalline pyroxene LiFeSi 2 O 6 and one-step mechanosynthesis of nanoglassy LiFeSi 2 O 6 □based composite. *Journal of Alloys and Compounds*, **2017**, 707, 310-314	5.7	5
30	Synthesis and Electrochemical Behavior of Nanostructured Copper Particles on Graphite for Application in Lithium Ion Batteries. *Zeitschrift Fur Physikalische Chemie*, **2015**, 229, 1415-1427	3.1	5
29	Li Diffusion in (110) Oriented LiNbO3 Single Crystals. *Defect and Diffusion Forum*, **2013**, 333, 33-38	0.7	5

28	Conductor-Insulator Interfaces in Solid Electrolytes: A Design Strategy to Enhance Li-Ion Dynamics in Nanoconfined LiBH/AlO. *Journal of Physical Chemistry C*, **2021**, 125, 15052-15060	3.8	5
27	NMR Studies of Lithium Diffusion in Li3(NH2)2I Over Wide Range of Li+ Jump Rates. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231,	3.1	4
26	Slow ion exchange in crystalline Li2SO4 ?H2O: A 6Li 2D EXSY NMR investigation. *Solid State Ionics*, **2017**, 304, 60-64	3.3	4
25	Neutron reflectometry to measure in situ the rate determining step of lithium ion transport through thin silicon layers and interfaces. *Physical Chemistry Chemical Physics*, **2019**, 21, 16444-16450	3.6	4
24	Diffusion-Induced NMR Relaxation in Single-Crystal Lithium. *Defect and Diffusion Forum*, **1997**, 143-147, 1317-1322	0.7	4
23	Diffusion and Ionic Conduction in Nanocrystalline Ceramics. *Materials Research Society Symposia Proceedings*, **2001**, 676, 661		4
22	Rapid Low-Dimensional Li Ion Hopping Processes in Synthetic Hectorite-Type Li[MgLi]SiOF. *Chemistry of Materials*, **2020**, 32, 7445-7457	9.6	4
21	Improved Electrochemical Performance of Modified Mesocarbon Microbeads for Lithium-Ion Batteries Studied using Solid-State Nuclear Magnetic Resonance Spectroscopy. *Energy Technology*, **2016**, 4, 1598-1603	3.5	4
20	Mechanochemical syntheses of LiFeGe2O6-based nanocomposite and novel nanoglassy LiFeTi2O6. *Journal of Materials Science*, **2018**, 53, 13530-13537	4.3	4
19	Glass in Two Forms: Heterogeneous Electrical Relaxation in Nanoglassy Petalite. *Journal of Physical Chemistry C*, **2019**, 123, 10153-10162	3.8	3
18	Tuning Antisite Defect Density in Perovskite-BaLiF via Cycling between Ball Milling and Heating. *Journal of Physical Chemistry Letters*, **2018**, 9, 5121-5124	6.4	3
17	Mobility of Ions in Solids. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231, 1211-1213	3.1	3
16	Lithium Diffusion in Li-Rich and Li-Poor Amorphous Lithium Niobate. *Defect and Diffusion Forum*, **2015**, 363, 62-67	0.7	3
15	Studying Li Dynamics in a Gas-Phase Synthesized Amorphous Oxide by NMR and Impedance Spectroscopy. *Zeitschrift Fur Physikalische Chemie*, **2012**, 226, 513-524	3.1	3
14	Density Functional Theory Evaluated for Structural and Electronic Properties of 1T-LixTiS2 and Lithium Ion Migration in 1T-Li0.94TiS2. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231, 1263-1278	3.1	2
13	Solid-State NMR Spectroscopy Study of Cation Dynamics in Layered Na2Ti3O7 and Li2Ti3O7. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231, 1243-1262	3.1	2
12	Lithium Ions in Solids Between Basics and Better Batteries. *Zeitschrift Fur Physikalische Chemie*, **2015**, 229, 1263-1264	3.1	2
11	Lattice Vibrations to Identify the Li/Na Ratio in LixNa2Ti6O13 (x = 0). *Zeitschrift Fur Physikalische Chemie*, **2015**, 229, 1351-1362	3.1	2

List of Publications

10	Development and application of novel NMR methodologies for the in situ characterization of crystallization processes of metastable crystalline materials. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2017**, 232, 141-159	1	2
9	With a Little Help from P NMR: The Complete Picture on Localized and Long-Range Li Diffusion in LiPSI. *Journal of Physical Chemistry C*, **2021**, 125, 22457-22463	3.8	2
8	Isolable Geminal Bisgermenolates: A New Synthon in Organometallic Chemistry. *Angewandte Chemie - International Edition*, **2021**, 60, 23646-23650	16.4	2
7	Thermal stability of Ba1-xCaxF2 solid solutions. *Solid State Sciences*, **2018**, 83, 188-191	3.4	1
6	Li transport in crystalline and glassy ion conductors as microscopically probed by 6,7Li stimulated echo NMR. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2008**, 634, 2018-2018	1.3	0
5	Direct Assessment of Ultralow Li+ Jump Rates in Single Crystalline Li3N by Evolution-Time-Resolved 7Li Spin-Alignment Echo NMR. *European Journal of Inorganic Chemistry*, **2021**, 2021, 1028-1033	2.3	0
4	Inside Cover: From Micro to Macro: Access to Long-Range Li+ Diffusion Parameters in Solids via Microscopic 6, 7Li Spin-Alignment Echo NMR Spectroscopy (ChemPhysChem 1/2012). *ChemPhysChem*, **2012**, 13, 2-2	3.2	
3	On-Load Impedance Measurements on Automotive Lithium-Ion Cells. *Chemie-Ingenieur-Technik*,	0.8	
2	NMR study on reaction processes from aluminum chloride hydroxides to alpha alumina powders. *Journal of the American Ceramic Society*, **2018**, 102, 2871	3.8	
1	Isolable Geminal Bisgermenolates: A New Synthon in Organometallic Chemistry. *Angewandte Chemie*, **2021**, 133, 23838	3.6	