

Paul Heitjans

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.

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	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> , 2022 ,	16.4	8
134	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> , 2021 , 125, 22457-22463	3.8	2
133	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> , 2021 , 125, 15052-15060	3.8	5
132	Two-Dimensional Substitution: Toward a Better Understanding of the Structure-Transport Correlations in the Li-Superionic Thio-LISICONs. <i>Chemistry of Materials</i> , 2021 , 33, 727-740	9.6	8
131	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> , 2021 , 125, 2306-2317	3.8	8
130	Direct Assessment of Ultralow Li+ Jump Rates in Single Crystalline Li3N by Evolution-Time-Resolved 7Li Spin-Alignment Echo NMR. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 1028-1033	2.3	0
129	Isolable Geminal Bisgermenolates: A New Synthone in Organometallic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23646-23650	16.4	2
128	Isolable Geminal Bisgermenolates: A New Synthone in Organometallic Chemistry. <i>Angewandte Chemie</i> , 2021 , 133, 23838	3.6	
127	Rapid Low-Dimensional Li Ion Hopping Processes in Synthetic Hectorite-Type Li[MgLi]SiOF. <i>Chemistry of Materials</i> , 2020 , 32, 7445-7457	9.6	4
126	Effect of the Degree of Inversion on the Electrical Conductivity of Spinel ZnFe2O4. <i>ChemistrySelect</i> , 2019 , 4, 1232-1239	1.8	13
125	Neutron reflectometry to measure in situ the rate determining step of lithium ion transport through thin silicon layers and interfaces. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16444-16450	3.6	4
124	Multi-anionic and -cationic compounds: new high entropy materials for advanced Li-ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2433-2442	35.4	121
123	Glass in Two Forms: Heterogeneous Electrical Relaxation in Nanoglassy Petalite. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10153-10162	3.8	3
122	Tuning Antisite Defect Density in Perovskite-BaLiF via Cycling between Ball Milling and Heating. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5121-5124	6.4	3
121	Using light, X-rays and electrons for evaluation of the nanostructure of layered materials. <i>Nanoscale</i> , 2018 , 10, 21142-21150	7.7	10
120	NMR study on reaction processes from aluminum chloride hydroxides to alpha alumina powders. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 2871	3.8	
119	Tuning the Vacancy Concentration in Lithium Germanium Antimony Tellurides-Influence on Phase Transitions, Lithium Mobility, and Thermoelectric Properties. <i>Chemistry of Materials</i> , 2018 , 30, 7970-7978	9.6	8

118	Thermal stability of Ba _{1-x} CaxF ₂ solid solutions. <i>Solid State Sciences</i> , 2018 , 83, 188-191	3.4	1
117	Mechanochemical syntheses of LiFeGe ₂ O ₆ -based nanocomposite and novel nanoglassy LiFeTi ₂ O ₆ . <i>Journal of Materials Science</i> , 2018 , 53, 13530-13537	4.3	4
116	Local Ion Dynamics in Polycrystalline δ -LiGaO ₂ : A Solid-State NMR Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231,	3.1	6
115	NMR Studies of Lithium Diffusion in Li ₃ (NH ₂) ₂ I Over Wide Range of Li ⁺ Jump Rates. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231,	3.1	4
114	Density Functional Theory Evaluated for Structural and Electronic Properties of 1T-LixTiS ₂ and Lithium Ion Migration in 1T-Li _{0.94} TiS ₂ . <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231, 1263-1278	3.1	2
113	Slow ion exchange in crystalline Li ₂ SO ₄ · 7H ₂ O: A 6Li 2D EXSY NMR Investigation. <i>Solid State Ionics</i> , 2017 , 304, 60-64	3.3	4
112	Solid-State NMR Spectroscopy Study of Cation Dynamics in Layered Na ₂ Ti ₃ O ₇ and Li ₂ Ti ₃ O ₇ . <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231, 1243-1262	3.1	2
111	Is Geometric Frustration-Induced Disorder a Recipe for High Ionic Conductivity?. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5842-5848	16.4	38
110	Mobility of Ions in Solids. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231, 1211-1213	3.1	3
109	Slow Lithium Transport in Metal Oxides on the Nanoscale. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231,	3.1	8
108	Development and application of novel NMR methodologies for the in situ characterization of crystallization processes of metastable crystalline materials. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017 , 232, 141-159	1	2
107	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	3.1	17
106	Combined mechanochemical/thermal synthesis of microcrystalline pyroxene LiFeSi ₂ O ₆ and one-step mechanosynthesis of nanoglassy LiFeSi ₂ O ₆ Based composite. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 310-314	5.7	5
105	Structure and ion dynamics of mechanosynthesized oxides and fluorides. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017 , 232, 107-127	1	25
104	Lithium Diffusion Mechanisms in δ -LiMO ₂ (M = Al, Ga): A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27788-27796	3.8	6
103	Lithium Permeation through Thin LithiumSilicon Films for Battery Applications Investigated by Neutron Reflectometry. <i>Energy Technology</i> , 2016 , 4, 1582-1587	3.5	7
102	Unravelling Ultraslow Lithium-Ion Diffusion in δ -LiAlO ₂ : Experiments with Tracers, Neutrons, and Charge Carriers. <i>Chemistry of Materials</i> , 2016 , 28, 915-924	9.6	31
101	Single-crystal neutron diffraction on δ -LiAlO ₂ : structure determination and estimation of lithium diffusion pathway. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2016 , 231, 189-193	1	17

100	Inhomogeneous degradation of graphite anodes in automotive lithium ion batteries under low-temperature pulse cycling conditions. <i>Journal of Power Sources</i> , 2016 , 307, 806-814	8.9	64
99	Structural Analysis and Li Migration Pathways in Ramsdellite Li ₂ Ti ₃ O ₇ : A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5-10	3.8	13
98	Symmetry reduction due to gallium substitution in the garnet Li _{6.43} (2)Ga _{0.52} (3)La _{2.67} (4)Zr ₂ O ₁₂ . <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016 , 72, 287-9	0.7	12
97	Li ₇ La ₃ Zr ₂ O ₁₂ Interface Modification for Li Dendrite Prevention. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10617-26	9.5	489
96	Solid-State NMR Investigations on the Structure and Dynamics of the Ionic Conductor Li _{1+x} Al _x Ti _{2-2x} (PO ₄) ₃ (0.0 ≤ x ≤ 1.0). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8436-8442	3.8	31
95	Improved Electrochemical Performance of Modified Mesocarbon Microbeads for Lithium-Ion Batteries Studied using Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Energy Technology</i> , 2016 , 4, 1598-1603	3.5	4
94	Lithium Ions in Solids Between Basics and Better Batteries. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229, 1263-1264	3.1	2
93	NMR and Impedance Spectroscopy Studies on Lithium Ion Diffusion in Microcrystalline LiAlO ₂ . <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229, 1327-1339	3.1	13
92	Lattice Vibrations to Identify the Li/Na Ratio in Li _x Na _{2-x} Ti ₆ O ₁₃ (x = 0). <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229, 1351-1362	3.1	2
91	LiBi thin films for battery applications produced by ion-beam co-sputtering. <i>RSC Advances</i> , 2015 , 5, 7192-7195	3.7	18
90	Lithium Diffusion in Ion-Beam Sputtered Amorphous LiAlO ₂ . <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229, 1341-1350	3.1	6
89	Synthesis and Electrochemical Behavior of Nanostructured Copper Particles on Graphite for Application in Lithium Ion Batteries. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229, 1415-1427	3.1	5
88	Lithium Diffusion in Li-Rich and Li-Poor Amorphous Lithium Niobate. <i>Defect and Diffusion Forum</i> , 2015 , 363, 62-67	0.7	3
87	A simple and straightforward mechanochemical synthesis of the far-from-equilibrium zinc aluminate, ZnAl ₂ O ₄ , and its response to thermal treatment. <i>RSC Advances</i> , 2015 , 5, 54321-54328	3.7	29
86	Theoretical Study of Li Migration in Lithium Graphite Intercalation Compounds with Dispersion-Corrected DFT Methods. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2273-2280	3.8	104
85	Insight into the Li Ion Dynamics in Li ₁₂ Si ₇ : Combining Field Gradient Nuclear Magnetic Resonance, One- and Two-Dimensional Magic-Angle Spinning Nuclear Magnetic Resonance, and Nuclear Magnetic Resonance Relaxometry. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28350-28360	3.8	20
84	Mechanochemical reactions and syntheses of oxides. <i>Chemical Society Reviews</i> , 2013 , 42, 7507-20	58.5	226
83	¹ H-NMR measurements of proton mobility in nano-crystalline YSZ. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19825-30	3.6	11

82	Low-Temperature Synthesis, Characterization, and Stability of Spinel-Type Li ₂ NiF ₄ and Solid-Solutions Li ₂ Ni _{1-x} CoxF ₄ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013 , 639, 326-333	1.3	5
81	Transfer and State Changes of Fluorine at Polytetrafluoroethylene/Titania Boundaries by Mechanical Stressing and Thermal Annealing. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15272-15278	3.8	15
80	Fast Ion Conducting Nanocrystalline Alkaline Earth Fluorides Simply Prepared by Mixing or Manual Shaking. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013 , 639, 960-966	1.3	16
79	Li Diffusion in (110) Oriented LiNbO ₃ Single Crystals. <i>Defect and Diffusion Forum</i> , 2013 , 333, 33-38	0.7	5
78	NMR relaxometry as a versatile tool to study Li ion dynamics in potential battery materials. <i>Solid State Nuclear Magnetic Resonance</i> , 2012 , 42, 2-8	3.1	94
77	From micro to macro: access to long-range Li ⁺ diffusion parameters in solids via microscopic (6, 7) Li spin-alignment echo NMR spectroscopy. <i>ChemPhysChem</i> , 2012 , 13, 53-65	3.2	104
76	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). <i>ChemPhysChem</i> , 2012 , 13, 2-2	3.2	
75	Synthesis of ternary transition metal fluorides Li ₃ MF ₆ via a sol-gel route as candidates for cathode materials in lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15819		31
74	Li Ion Dynamics in Al-Doped Garnet-Type Li ₇ La ₃ Zr ₂ O ₁₂ Crystallizing with Cubic Symmetry. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012 , 226, 525-537	3.1	29
73	Li Ion Dynamics in a LiAlO ₂ Single Crystal Studied by ⁷ Li NMR Spectroscopy and Conductivity Measurements. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14243-14247	3.8	58
72	Insights into Li(+) Migration Pathways in Li ₃ VF ₆ : A First-Principles Investigation. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3120-4	6.4	8
71	Mechanosynthesis of nanocrystalline fayalite, Fe ₂ SiO ₄ . <i>Chemical Communications</i> , 2012 , 48, 11121-3	5.8	28
70	Mechanosynthesis of Solid Electrolytes: Preparation, Characterization, and Li Ion Transport Properties of Garnet-Type Al-Doped Li ₇ La ₃ Zr ₂ O ₁₂ Crystallizing with Cubic Symmetry. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15192-15202	3.8	102
69	Extremely slow Li ion dynamics in monoclinic Li ₂ TiO ₃ --probing macroscopic jump diffusion via ⁷ Li NMR stimulated echoes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11974-80	3.6	43
68	Multinuclear NMR spectroscopic studies of structure and dynamics in hydrous NaAlSi ₃ O ₈ and Ca _{0.5} AlSi ₃ O ₈ glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2862-2867	3.9	6
67	The ionic conductivity in lithium-boron oxide materials and its relation to structural, electronic and defect properties: insights from theory. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 203201	1.8	14
66	Nonequilibrium structure of Zn ₂ SnO ₄ spinel nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3117		75
65	Self-Diffusion of Lithium in Amorphous Lithium Niobate Layers. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012 , 226, 439-448	3.1	15

64	From composites to solid solutions: modeling of ionic conductivity in the CaF ₂ -BaF ₂ system. <i>Chemistry - A European Journal</i> , 2012 , 18, 6225-9	4.8	18
63	Low-Temperature DC Conductivity of LiNbO ₃ Single Crystals. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012 , 226, 431-437	3.1	15
62	Studying Li Dynamics in a Gas-Phase Synthesized Amorphous Oxide by NMR and Impedance Spectroscopy. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012 , 226, 513-524	3.1	3
61	High-resolution ²⁷ Al MAS NMR spectroscopic studies of the response of spinel aluminates to mechanical action. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8332		37
60	Mechanosynthesized BiFeO ₃ Nanoparticles with Highly Reactive Surface and Enhanced Magnetization. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7209-7217	3.8	70
59	Formation and Mobility of Li Point Defects in LiBO ₂ : A First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12343-12349	3.8	10
58	Structure and dynamics of the fast lithium ion conductor "Li ₇ La ₃ Zr ₂ O ₁₂ ". <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 19378-92	3.6	446
57	Li-NMR-Spektroskopie an kristallinem Li ₁₂ Si ₇ : zur Aromatizität planarer, Cyclopentadienyl-analoger Si ₅ Ringe. <i>Angewandte Chemie</i> , 2011 , 123, 12305-12308	3.6	16
56	Li NMR spectroscopy on crystalline Li ₁₂ Si ₇ : experimental evidence for the aromaticity of the planar cyclopentadienyl-analogous Si ₅ (6-) rings. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12099-102	16.4	33
55	On the mechanisms of ionic conductivity in BaLiF ₃ : a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 21492-5	3.6	7
54	Li ion diffusion in the anode material Li ₁₂ Si ₇ : ultrafast quasi-1D diffusion and two distinct fast 3D jump processes separately revealed by ⁷ Li NMR relaxometry. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11018-21	16.4	104
53	Novel Cobalt-Free Oxygen-Permeable Perovskite-Type Membrane. <i>Chemistry of Materials</i> , 2010 , 22, 1540-1544	16.4	81
52	Mechanosynthesized nanocrystalline BaLiF(3): The impact of grain boundaries and structural disorder on ionic transport. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11251-62	3.6	43
51	Ion Dynamics at Interfaces: Nuclear Magnetic Resonance Studies. <i>MRS Bulletin</i> , 2009 , 34, 915-922	3.2	46
50	Li Ion Diffusion in Nanocrystalline and Nanoglassy LiAlSi ₂ O ₆ and LiBO ₂ - Structure-Dynamics Relations in Two Glass Forming Compounds. <i>Zeitschrift Fur Physikalische Chemie</i> , 2009 , 223, 1359-1377	3.1	15
49	Li Conductivity of Nanocrystalline Li ₄ Ti ₅ O ₁₂ Prepared by a Sol-Gel Method and High-Energy Ball Milling. <i>Defect and Diffusion Forum</i> , 2009 , 289-292, 565-570	0.7	13
48	Diffusion in Nanocrystalline Ion Conductors Studied by Solid State NMR and Impedance Spectroscopy. <i>Defect and Diffusion Forum</i> , 2009 , 283-286, 705-715	0.7	13
47	Mechanically induced decrease of the Li conductivity in an aluminosilicate glass. <i>Solid State Ionics</i> , 2009 , 180, 302-307	3.3	29

46	Defect formation during high-energy ball milling in TiO ₂ and its relation to the photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 207, 231-235	4.7	20
45	A One-Step Mechanochemical Route to Core-Shell Ca ₂ SnO ₄ Nanoparticles Followed by ¹¹⁹ Sn MAS NMR and ¹¹⁹ Sn Mössbauer Spectroscopy. <i>Chemistry of Materials</i> , 2009 , 21, 2518-2524	9.6	42
44	Li intercalation and anion/cation substitution of transition metal chalcogenides: Effects on crystal structure, microstructure, magnetic properties and Li ⁺ ion mobility. <i>Progress in Solid State Chemistry</i> , 2009 , 37, 206-225	8	20
43	Oxygen-18 surface exchange and diffusion in Li ₂ O-deficient single crystalline lithium niobate. <i>Solid State Sciences</i> , 2008 , 10, 746-753	3.4	12
42	Anion diffusivity in highly conductive nanocrystalline BaF ₂ :CaF ₂ composites prepared by high-energy ball milling. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5412		63
41	Tuning the structural and physical properties of Cr ₂ Ti ₃ Se ₈ by lithium intercalation: a study of the magnetic properties, investigation of ion mobility with NMR spectroscopy and electronic band structure calculations. <i>Journal of the American Chemical Society</i> , 2008 , 130, 288-99	16.4	17
40	Atomic-scale measurement of ultraslow Li motions in glassy LiAlSi ₂ O ₆ by two-time ⁶ Li spin-alignment echo NMR correlation spectroscopy. <i>Physical Review B</i> , 2008 , 78,	3.3	52
39	Li transport in crystalline and glassy ion conductors as microscopically probed by ^{6,7} Li stimulated echo NMR. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008 , 634, 2018-2018	1.3	0
38	Ion transport and diffusion in nanocrystalline and glassy ceramics. <i>European Physical Journal: Special Topics</i> , 2008 , 161, 97-108	2.3	43
37	Diffusion parameters in single-crystalline Li ₃ N as probed by ⁶ Li and ⁷ Li spin-alignment echo NMR spectroscopy in comparison with results from ⁸ Li β -radiation detected NMR. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 022201	1.8	26
36	Microscopic Li self-diffusion parameters in the lithiated anode material Li ₄ + xTi ₅ O ₁₂ (0 Physical Chemistry Chemical Physics, 2007 , 9, 6199-202	3.6	72
35	Nanocrystalline Nickel Ferrite, NiFe ₂ O ₄ : Mechanosynthesis, Nonequilibrium Cation Distribution, Canted Spin Arrangement, and Magnetic Behavior. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5026-5033 ^{3.8}		285
34	Ultraslow Li diffusion in spinel-type structured Li ₄ Ti ₅ O ₁₂ - a comparison of results from solid state NMR and impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1239-46	3.6	131
33	Microscopic access to long-range diffusion parameters of the fast lithium ion conductor Li ₇ BiO ₆ by solid state ⁷ Li stimulated echo NMR. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8691-4	3.4	39
32	Enhanced conductivity at the interface of Li ₂ O:B ₂ O ₃ nanocomposites: atomistic models. <i>Physical Review Letters</i> , 2007 , 99, 145502	7.4	19
31	Local electronic structure in MgB ₂ from B ₁₂ β -NMR. <i>Physical Review B</i> , 2007 , 75,	3.3	7
30	NMR and impedance studies of nanocrystalline and amorphous ion conductors: lithium niobate as a model system. <i>Faraday Discussions</i> , 2007 , 134, 67-82; discussion 103-18, 415-9	3.6	127
29	Extremely slow cation exchange processes in Li ₄ SiO ₄ probed directly by two-time ⁷ Li stimulated-echo nuclear magnetic resonance spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 9849-9862	1.8	39

28	Local electronic structure in a LiAlO ₂ single crystal studied with Li ⁷ NMR spectroscopy and comparison with quantum chemical calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	20
27	Nonequilibrium Cation Distribution, Canted Spin Arrangement, and Enhanced Magnetization in Nanosized MgFe ₂ O ₄ Prepared by a One-Step Mechanochemical Route. <i>Chemistry of Materials</i> , 2006 , 18, 3057-3067	9.6	159
26	Lithium Intercalation into Monoclinic Cr ₄ TiSe ₈ : Synthesis, Structural Phase Transition, and Properties of Li _x Cr ₄ TiSe ₈ (x = 0.1-0.8). <i>Chemistry of Materials</i> , 2006 , 18, 1569-1576	9.6	14
25	NMR and ENMR Studies of Diffusion in Interface-Dominated and Disordered Solids 2005 , 367-415		24
24	Impedance Spectroscopy Study of Li Ion Dynamics in Single Crystal, Microcrystalline, Nanocrystalline and Amorphous LiNbO ₃ . <i>Defect and Diffusion Forum</i> , 2005 , 237-240, 1016-1021	0.7	32
23	Preparation by high-energy milling, characterization, and catalytic properties of nanocrystalline TiO ₂ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23274-8	3.4	63
22	AC and DC Conductivity in Nano- and Microcrystalline Li ₂ O : B ₂ O ₃ Composites: Experimental Results and Theoretical Models. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005 , 219, 89-103	3.1	32
21	Ultraslow Diffusion in Polycrystalline h-LiTiS ₂ Studied by ⁷ Li Spin-Alignment Echo NMR Spectroscopy. <i>Defect and Diffusion Forum</i> , 2005 , 237-240, 1182-1187	0.7	24
20	Fast dynamics of H ₂ O in hydrous aluminosilicate glasses studied with quasielastic neutron scattering. <i>Physical Review B</i> , 2005 , 71,	3.3	17
19	Electric field gradient calculations for Li _x TiS ₂ and comparison with Li ⁷ NMR results. <i>Physical Review B</i> , 2004 , 70,	3.3	74
18	Fast diffusion in nanocrystalline ceramics prepared by ball milling. <i>Journal of Materials Science</i> , 2004 , 39, 5091-5096	4.3	56
17	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. <i>Solid State Nuclear Magnetic Resonance</i> , 2004 , 26, 74-83	3.1	26
16	Li ion transport and interface percolation in nano- and microcrystalline composites. <i>Physical Chemistry Chemical Physics</i> , 2004 , 006, 3680-3683	3.6	23
15	Diffusion and ionic conduction in nanocrystalline ceramics. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, R1257-R1289	1.8	217
14	Heterogeneous lithium diffusion in nanocrystalline Li ₂ O:Al ₂ O ₃ composites. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 2225-2231	3.6	63
13	Diffusion in amorphous LiNbO ₃ studied by ⁷ Li NMR [Comparison with the nano- and microcrystalline material. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3246-3251	3.6	76
12	Heterogeneous ⁷ Li NMR relaxation in nanocrystalline Li ₂ O:B ₂ O ₃ composites. <i>Journal of Non-Crystalline Solids</i> , 2002 , 307-310, 555-564	3.9	43
11	Li Diffusion in Nano- and Microcrystalline (1-x)Li ₂ O:xB ₂ O ₃ . <i>Defect and Diffusion Forum</i> , 2001 , 194-199, 935-940	0.7	13

10	Near constant loss in glassy and crystalline $\text{LiAlSi}_2\text{O}_6$ from conductivity relaxation measurements. <i>Journal of Chemical Physics</i> , 2001 , 114, 931	3.9	26
9	Intergranular structure of nanocrystalline layered Li_xTiS_2 as derived from ^7Li NMR spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2001 , 293-295, 19-24	3.9	7
8	Li^+ Diffusion and Its Structural Basis in the Nanocrystalline and Amorphous Forms of Two-Dimensionally Ion-Conducting Li_xTiS_2 . <i>Journal of Physical Chemistry B</i> , 2001 , 105, 6108-6115	3.4	47
7	NMR Investigations on Ion Dynamics and Structure in Nanocrystalline and Polycrystalline LiNbO_3 . <i>Journal of Physical Chemistry B</i> , 2001 , 105, 9162-9170	3.4	45
6	Diffusion and Ionic Conduction in Nanocrystalline Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 676, 661		4
5	Nanocrystalline versus microcrystalline $\text{Li}_2\text{O}:\text{B}_2\text{O}_3$ composites: anomalous ionic conductivities and percolation theory. <i>Physical Review Letters</i> , 2000 , 84, 2889-92	7.4	106
4	Mechanochemical Preparation and Characterization of Nanocrystalline Ceramic Composites. <i>Materials Science Forum</i> , 2000 , 343-346, 417-422	0.4	8
3	NMR relaxation and line shape study on Li^+ diffusion in nanocrystalline layer-structured Li_xTiS_2 . <i>Scripta Materialia</i> , 1999 , 12, 883-886		6
2	Diffusion-Induced NMR Relaxation in Single-Crystal Lithium. <i>Defect and Diffusion Forum</i> , 1997 , 143-147, 1317-1322	0.7	4
1	On-Load Impedance Measurements on Automotive Lithium-Ion Cells. <i>Chemie-Ingenieur-Technik</i> ,	0.8	