

Alexey V Soloninin

List of Publications by Year in descending order

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57
papers

1,681
citations

361045

20
h-index

288905

40
g-index

57
all docs

57
docs citations

57
times ranked

1086
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR Study of the Dynamical Properties of LiLa(BH ₄) ₃ Br and LiLa(BH ₄) ₃ I. Applied Magnetic Resonance, 2021, 52, 595-606.	0.6	8
2	Nuclear magnetic resonance study of atomic motion in the mixed borohydride-amide Li ₂ (BH ₄)(NH ₂). Journal of Alloys and Compounds, 2020, 823, 153821.	2.8	3
3	Low-Temperature Rotational Tunneling of Tetrahydroborate Anions in Lithium Benimidazolate-Borohydride Li ₂ (blm)BH ₄ . Journal of Physical Chemistry C, 2019, 123, 20789-20799.	1.5	6
4	Anion Mobility and Cation Diffusion in Alkali Metal Borohydrides. Physics of Metals and Metallography, 2019, 120, 41-49.	0.3	4
5	Comparison of anion and cation dynamics in a carbon-substituted closo-hydroborate salt: ¹ H and ²³ Na NMR studies of solid-solution Na ₂ (CB ₉ H ₁₀)(CB ₁₁ H ₁₂). Journal of Alloys and Compounds, 2019, 800, 247-253.	2.8	14
6	Nuclear magnetic resonance study of anion and cation dynamics in CsSiH ₃ . Journal of Alloys and Compounds, 2019, 781, 913-918.	2.8	4
7	Nuclear magnetic resonance study of hydrogen dynamics in Al(BH ₄) ₄ -based hypersalts M[Al(BH ₄) ₄] (M = Na, K, Rb, Cs). Journal of Alloys and Compounds, 2018, 745, 179-186.	2.8	2
8	Nuclear Magnetic Resonance Study of Anion and Cation Reorientational Dynamics in (NH ₄) ₂ B ₁₂ H ₁₂ . Journal of Physical Chemistry C, 2018, 122, 3256-3262.	1.5	8
9	Nature of Decahydro-closo-decaborate Anion Reorientations in an Ordered Alkali-Metal Salt: Rb ₂ B ₁₀ H ₁₀ . Journal of Physical Chemistry C, 2018, 122, 15198-15207.	1.5	9
10	Anion Disorder in K ₃ BH ₄ B ₁₂ H ₁₂ and Its Effect on Cation Mobility. Journal of Physical Chemistry C, 2017, 121, 5503-5514.	1.5	18
11	NMR Studies of Lithium Diffusion in Li ₃ (NH ₂) ₂ I Over Wide Range of Li ⁺ Jump Rates. Zeitschrift Fur Physikalische Chemie, 2017, 231, .	1.4	4
12	Comparison of Anion Reorientational Dynamics in MCB ₉ H ₁₀ and M ₂ B ₁₀ H ₁₀ (M = Li, Na) via Nuclear Magnetic Resonance and Quasielastic Neutron Scattering Studies. Journal of Physical Chemistry C, 2017, 121, 1000-1012.	1.5	39
13	Hydrogen in the Ti ₃ Al intermetallic compound: Study by the NMR method. Physics of Metals and Metallography, 2017, 118, 183-189.	0.3	2
14	Liquid-Like Ionic Conduction in Solid Lithium and Sodium Monocarbide-Decaborates Near or at Room Temperature. Advanced Energy Materials, 2016, 6, 1502237.	10.2	190
15	Stabilizing Superionic-Conducting Structures via Mixed-Anion Solid Solutions of Monocarbide-borate Salts. ACS Energy Letters, 2016, 1, 659-664.	8.8	147
16	Nuclear magnetic resonance studies of atomic motion in borohydride-based materials: Fast anion reorientations and cation diffusion. Journal of Alloys and Compounds, 2015, 645, S428-S433.	2.8	34
17	Atomic Motion in the Complex Hydride Li ₃ (NH ₂) ₂ I: ⁷ Li and ¹ H Nuclear Magnetic Resonance Studies. Journal of Physical Chemistry C, 2015, 119, 13459-13464.	1.5	8
18	Effects of partial halide anion substitution on reorientational motion in NaBH ₄ : A nuclear magnetic resonance study. Journal of Alloys and Compounds, 2015, 636, 293-297.	2.8	11

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19	Nuclear Magnetic Resonance Study of Atomic Motion in Bimetallic Perovskite-Type Borohydrides $\text{ACa}(\text{BH}_4)_3$ ($A = \text{K, Rb, or Cs}$). <i>Journal of Physical Chemistry C</i> , 2015, 119, 19689-19696.	1.5	5
20	Anion Reorientations and Cation Diffusion in $\text{LiCB}_{11}\text{H}_{12}$ and $\text{NaCB}_{11}\text{H}_{12}$: ^1H , ^7Li , and ^{23}Na NMR Studies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26912-26918.	1.5	45
21	Exceptional Superionic Conductivity in Disordered Sodium Decahydrodecaborate. <i>Advanced Materials</i> , 2014, 26, 7622-7626.	11.1	221
22	Pressure-Collapsed Amorphous $\text{Mg}(\text{BH}_4)_2$: An Ultradense Complex Hydride Showing a Reversible Transition to the Porous Framework. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23402-23408.	1.5	36
23	Complex high-temperature phase transitions in $\text{Li}_2\text{B}_{12}\text{H}_{12}$ and $\text{Na}_2\text{B}_{12}\text{H}_{12}$. <i>Journal of Solid State Chemistry</i> , 2014, 212, 81-91.	1.4	109
24	Nuclear Magnetic Resonance Study of Atomic Motion in the Mixed Borohydride "Amide $\text{Na}_2(\text{BH}_4)(\text{NH}_2)$. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14805-14812.	1.5	19
25	Nuclear magnetic resonance study of hydrogen dynamics in $\text{Y}(\text{BH}_4)_3$. <i>Journal of Alloys and Compounds</i> , 2013, 555, 209-212.	2.8	7
26	Nuclear Magnetic Resonance Studies of BH_4 Reorientations and Li Diffusion in $\text{LiLa}(\text{BH}_4)_3\text{Cl}$. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14965-14972.	1.5	79
27	Nuclear Magnetic Resonance Study of Atomic Motion in $\text{A}_2\text{B}_{12}\text{H}_{12}$ ($A = \text{Na, K, Rb, Cs}$): Anion Reorientations and Na^+ Mobility. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25961-25968.	1.5	82
28	Nuclear Magnetic Resonance Studies of Reorientational Motion and Li Diffusion in LiBH_4 "LiI Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26177-26184.	1.5	40
29	NMR Study of Reorientational Motion in Alkaline-Earth Borohydrides: \hat{I}^2 and \hat{I}^3 Phases of $\text{Mg}(\text{BH}_4)_2$ and \hat{I}^\pm and \hat{I}^2 Phases of $\text{Ca}(\text{BH}_4)_2$. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4913-4920.	1.5	33
30	Reorientational Motion in Alkali-Metal Borohydrides: NMR Data for RbBH_4 and CsBH_4 and Systematics of the Activation Energy Variations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10305-10309.	1.5	33
31	Nuclear magnetic resonance studies of atomic motion in borohydrides. <i>Journal of Alloys and Compounds</i> , 2011, 509, S535-S539.	2.8	27
32	Thermally unstable hydrides of titanium aluminide Ti_3Al . <i>Physics of Metals and Metallography</i> , 2011, 111, 353-360.	0.3	1
33	Effect of mechanical milling on the mobility of hydrogen in the $\text{ZrTi}_2\text{-H}$ system stabilized by hydrogen: NMR data. <i>Physics of Metals and Metallography</i> , 2010, 110, 241-249.	0.3	2
34	^{63}Cu NMR spectra, magnetic susceptibility, and transmission electron microscopy of the rapidly quenched alloy $\text{Ti}_{50}\text{Ni}_{25}\text{Cu}_{25}$. <i>Physics of Metals and Metallography</i> , 2010, 110, 582-587.	0.3	5
35	Structural and Dynamical Properties of NaBH_4 and KBH_4 : NMR and Synchrotron X-ray Diffraction Studies. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3712-3718.	1.5	70
36	The anti-perovskite type hydride $\text{InPd}_3\text{H}_{0.89}$. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2461-2465.	1.4	19

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37	Nuclear Magnetic Resonance Study of Reorientational Motion in $\hat{1}\pm\text{-Mg}(\text{BH}_{4})_{2}$. Journal of Physical Chemistry C, 2010, 114, 12370-12374.	1.5	49
38	Nuclear Magnetic Resonance Study of Ball-Milled TiH_2 with C, B, and BN Additives. Journal of Physical Chemistry C, 2010, 114, 646-651.	1.5	3
39	Nuclear magnetic resonance study of hydrogen mobility in $\text{LaY}_2\text{Ni}_9\text{H}_x$ and $\text{CeY}_2\text{Ni}_9\text{H}_x$. Journal of Solid State Chemistry, 2009, 182, 586-591.	1.4	1
40	Nuclear magnetic resonance study of Li and H diffusion in the high-temperature solid phase of LiBH_4 . Journal of Solid State Chemistry, 2009, 182, 2357-2361.	1.4	43
41	Positions and mobility of hydrogen atoms in Hf_2CoH_x (D_x) with a structure of the Ti_2Ni type: Study by the NMR and neutron diffraction methods. Physics of Metals and Metallography, 2009, 107, 73-79.	0.3	0
42	Hydrogen diffusivity and the anomalous transverse spin relaxation in C14-type HfCr_2H_x . Journal of Alloys and Compounds, 2009, 475, 16-20.	2.8	3
43	Hydrogen in nonstoichiometric cubic niobium carbides: Neutron vibrational spectroscopy and neutron diffraction studies. Journal of Alloys and Compounds, 2009, 478, 68-74.	2.8	8
44	Nuclear magnetic resonance studies of hydrogen motion in nanostructured Laves-phase hydrides ZrCr_2H_x and TaV_2H_x . Journal of Physics Condensed Matter, 2008, 20, 275239.	0.7	4
45	Nuclear Magnetic Resonance Study of the Rotational Motion and the Phase Transition in LiBH_4 . Journal of Physical Chemistry C, 2008, 112, 18701-18705.	1.5	68
46	Nuclear magnetic resonance studies of ball-milled hydrides. Journal of Alloys and Compounds, 2007, 446-447, 489-494.	2.8	12
47	Hydrogen motion and site occupation in $\text{Ti}_2\text{CoH}_x(D_x)$: NMR and neutron scattering studies. Physica B: Condensed Matter, 2007, 392, 353-360.	1.3	8
48	Studying nanocrystalline superconducting Nb_3Sn layers in Nb/Cu-Sn composites of various design using NMR and magnetic susceptibility methods. Physics of Metals and Metallography, 2007, 104, 59-66.	0.3	2
49	Hydrogen reaction kinetics of Mg-based alloys synthesized by mechanical milling. Journal of Alloys and Compounds, 2006, 425, 367-372.	2.8	41
50	Kinetics of interaction of Mg-based mechanically activated alloys with hydrogen. Physics of Metals and Metallography, 2006, 102, 421-431.	0.3	41
51	Hydrogen motion in C14-type HfCr_2H_x : quasielastic neutron scattering and NMR studies. Journal of Physics Condensed Matter, 2005, 17, 5011-5025.	0.7	8
52	NMR evidence of two frequency scales of hydrogen jump motion in Ti_2Ni -type compounds Ti_2CoH_x . Solid State Communications, 2004, 129, 315-318.	0.9	8
53	Proton NMR study of $\hat{1}\pm\text{-MnH}_{0.06}$. Solid State Communications, 2004, 131, 115-119.	0.9	0
54	^{45}Sc NMR and high-resolution quasielastic neutron scattering studies of localized H(D) motion in $\hat{1}\pm\text{-ScH}_x(D_x)$. Physical Review B, 2002, 66, .	1.1	7

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55	NMR evidence of two fractions of D atoms with different low-temperature mobilities in C15-type TaV ₂ Dx and HfMo ₂ Dx. Solid State Communications, 2002, 122, 497-501.	0.9	11
56	Nuclear magnetic resonance study of hydrogen diffusion in A15-type Nb ₃ AlHx. Journal of Physics Condensed Matter, 2000, 12, 9607-9616.	0.7	7
57	Hydrogen diffusion in C15-type HfMo ₂ H _{0.4} : nuclear magnetic resonance evidence of two frequency scales of H hopping. Journal of Physics Condensed Matter, 1999, 11, 10393-10400.	0.7	13