

Artur Birczyński

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of zero-field NMR spectra. Effects of motion. European Physical Journal B, 1985, 60, 49-55.	1.5	17
2	Rotational barriers in ammonium hexachlorometallates as studied by NMR, tunnelling spectroscopy and ab initio calculations. Chemical Physics, 2004, 299, 113-122.	1.9	13
3	Low temperature domain structure in (ND ₄) ₂ TeCl ₆ detected by deuteron NMR spectroscopy. Chemical Physics Letters, 2001, 339, 229-236.	2.6	12
4	Deuteron NMR Study of the Diverse Mobility of the Ammonium Ions in the Ordered Phase of (ND ₄) ₂ PtCl ₆ . Solid State Nuclear Magnetic Resonance, 2002, 22, 373-393.	2.3	11
5	Translational and rotational mobility of methanol-d ₄ molecules in NaX and NaY zeolite cages: A deuteron NMR investigation. Solid State Nuclear Magnetic Resonance, 2012, 45-46, 66-74.	2.3	11
6	Zero-field NMR. Calculation of spectra. European Physical Journal B, 1984, 56, 133-138.	1.5	10
7	Deuteron NMR study of ammonium ion mobility near the order-disorder phase transition in (ND ₄) ₂ PtCl ₆ . Chemical Physics Letters, 2003, 367, 55-61.	2.6	10
8	Dynamics of hydroxyl deuterons and bonded water molecules in NaDY(0.8) zeolite as studied by means of deuteron NMR spectroscopy and relaxation. Solid State Nuclear Magnetic Resonance, 2010, 37, 91-100.	2.3	10
9	Deuteron spin-lattice relaxation in the presence of an activation energy distribution: Application to methanols in zeolite NaX. Solid State Nuclear Magnetic Resonance, 2013, 49-50, 33-41.	2.3	10
10	Translation and reorientation of CD ₄ molecules in nanoscale cages of zeolites as studied by deuteron spin-lattice relaxation. Journal of Chemical Physics, 2007, 127, 204714.	3.0	9
11	Water Confinement in Faujasite Cages: A Deuteron NMR Investigation in a Wide Temperature Range. 1. Low Temperature Spectra. Journal of Physical Chemistry A, 2014, 118, 5359-5370.	2.5	9
12	Structure of the Hydroxyl Groups and Adsorbed D ₂ O Sites in the DX Zeolite: DFT and Experimental NMR Data. Journal of Physical Chemistry C, 2015, 119, 19548-19557.	3.1	9
13	Deuteron NMR spectra of ammonium ion isotopomers at low temperatures. Solid State Nuclear Magnetic Resonance, 2005, 28, 142-159.	2.3	8
14	Translational and Rotational Dynamics of Molecules Confined in Zeolite Nanocages by Means of Deuteron NMR. Journal of Physical Chemistry C, 2017, 121, 26472-26482.	3.1	8
15	Anisotropy of the proton T ₁ and the low-field relaxation in NH ₄ ClO ₄ below 20 K. Solid State Nuclear Magnetic Resonance, 1996, 7, 105-119.	2.3	7
16	Deuteron NMR spectra of NH ₃ D ⁺ ions. Applied Magnetic Resonance, 2004, 27, 171-181.	1.2	7
17	Deuteron NMR spectra and relaxation in fully and partly deuterated. Solid State Nuclear Magnetic Resonance, 2009, 35, 180-186.	2.3	7
18	Water Confinement in Faujasite Cages: A Deuteron NMR Investigation in a Wide Temperature Range. 2. Spectra and Relaxation at High Temperature. Journal of Physical Chemistry A, 2014, 118, 5371-5380.	2.5	7

#	ARTICLE	IF	CITATIONS
19	Deuteron NMR spin-lattice relaxation of NH ₃ D ⁺ ions in partially deuterated (NH ₄) ₂ SnCl ₆ and NH ₄ ClO ₄ . <i>Chemical Physics</i> , 2006, 327, 119-126.	1.9	6
20	Deuteron NMR relaxation, spectra, and evidence for the order-disorder phase transition in (ND ₄) ₂ PtCl ₆ . <i>Journal of Chemical Physics</i> , 2008, 128, 1845-10.	3.0	6
21	Deuteron spin-lattice relaxation in partially deuterated ammonium hexachlorotellurate. <i>Chemical Physics</i> , 2006, 327, 373-384.	1.9	5
22	Spatiotemporal Analysis of Hydration Mechanism in Sodium Alginate Matrix Tablets. <i>Materials</i> , 2021, 14, 646.	2.9	5
23	Local and Nonlocal Hydrogen Dynamics in α -Oxalic Acid Dihydrate. A 1D and 2D Single Crystal Deuteron NMR Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 1992, 178, 133-155.	2.8	4
24	Hydration Patterns in Sodium Alginate Polymeric Matrix Tablets – The Result of Drug Substance Incorporation. <i>Materials</i> , 2021, 14, 6531.	2.9	4
25	nuclear quadrupole resonance (NQR) study of ion mobility in (ND ₄) ₂ PtCl ₄ . <i>Physica B: Condensed Matter</i> , 2003, 339, 182-192.	2.7	3
26	Deuteron spin-lattice relaxation in partly and fully deuterated. <i>Solid State Nuclear Magnetic Resonance</i> , 2008, 34, 77-85.	2.3	3
27	The effect of a broad activation energy distribution on deuteron spin-lattice relaxation. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 71, 19-29.	2.3	3
28	¹ H-NMR Spectra of Molecular Groups in a Paramagnetic Matrix. <i>Physica Status Solidi (B): Basic Research</i> , 1985, 128, 545-552.	1.5	2
29	Deuteron NMR spectra of ND ₄ ClO ₄ single crystal at low temperatures. <i>Solid State Nuclear Magnetic Resonance</i> , 1993, 1, 329-344.	2.3	2
30	Calculation of zero-field NMR spectra of the ammonium ion undergoing tunneling motion and fast random reorientation. <i>European Physical Journal B</i> , 1988, 71, 349-353.	1.5	1
31	Translation and reorientation of CD ₄ molecules in zeolites as studied by deuteron NMR relaxation. <i>Studies in Surface Science and Catalysis</i> , 2008, , 921-924.	1.5	1
32	Acetone mobility in zeolite cages with new features in the deuteron NMR spectra and relaxation. <i>Solid State Nuclear Magnetic Resonance</i> , 2018, 93, 7-15.	2.3	1
33	In Vitro Wound Dressing Stack Model as a First Step to Evaluate the Behavior of Dressing Materials in Wound Bed – An Assessment of Mass Transport Phenomena in Hydrogel Wound Dressings. <i>Materials</i> , 2021, 14, 7702.	2.9	1
34	Acetone-d ₆ mobility in confinement of D-ZSM-5 structure: A deuteron NMR study. <i>Chemical Physics Letters</i> , 2022, 788, 139287.	2.6	0