

Danuta Kruk

List of Publications by Year in descending order

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123
papers

2,653
citations

186265

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223800

46
g-index

127
all docs

127
docs citations

127
times ranked

1611
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-cycling NMR relaxometry of viscous liquids and polymers. Progress in Nuclear Magnetic Resonance Spectroscopy, 2012, 63, 33-64.	7.5	146
2	NMR RELAXATION IN SOLUTION OF PARAMAGNETIC COMPLEXES: RECENT THEORETICAL PROGRESS FOR Sâ%¥1. Advances in Inorganic Chemistry, 2005, 57, 41-104.	1.0	112
3	Solid state Field-Cycling NMR relaxometry: Instrumental improvements and new applications. Progress in Nuclear Magnetic Resonance Spectroscopy, 2014, 82, 39-69.	7.5	96
4	Comparison of different methods for calculating the paramagnetic relaxation enhancement of nuclear spins as a function of the magnetic field. Journal of Chemical Physics, 2008, 128, 052315.	3.0	95
5	Nuclear spin relaxation in paramagnetic systems with zero-field splitting and arbitrary electron spinElectronic Supplementary Information available. See http://www.rsc.org/suppdata/cp/b1/b106659p/ . Physical Chemistry Chemical Physics, 2001, 3, 4907-4917.	2.8	79
6	Nuclear magnetic resonance relaxometry as a method of measuring translational diffusion coefficients in liquids. Physical Review E, 2012, 85, 020201.	2.1	76
7	Translational and Rotational Diffusion of Glycerol by Means of Field Cycling¹H NMR Relaxometry. Journal of Physical Chemistry B, 2011, 115, 951-957.	2.6	75
8	Determining diffusion coefficients of ionic liquids by means of field cycling nuclear magnetic resonance relaxometry. Journal of Chemical Physics, 2014, 140, 244509.	3.0	75
9	Evolution of the dynamic susceptibility in molecular glass formers: Results from light scattering, dielectric spectroscopy, and NMR. Journal of Chemical Physics, 2013, 138, 12A510.	3.0	72
10	Intermolecular relaxation in glycerol as revealed by field cycling 1H NMR relaxometry dilution experiments. Journal of Chemical Physics, 2012, 136, 034508.	3.0	65
11	Intermolecular Spin Relaxation and Translation Diffusion in Liquids and Polymer Melts: Insight from Fieldâ€Cycling ¹H NMR Relaxometry. ChemPhysChem, 2013, 14, 3071-3081.	2.1	59
12	Zero-field splitting in nickel(II) complexes: A comparison of DFT and multi-configurational wavefunction calculations. Journal of Chemical Physics, 2013, 138, 064304.	3.0	59
13	Mean Square Displacement and Reorientational Correlation Function in Entangled Polymer Melts Revealed by Field Cycling ¹H and ²H NMR Relaxometry. Macromolecules, 2012, 45, 6516-6526.	4.8	54
14	Comparative Studies of the Dynamics in Viscous Liquids by Means of Dielectric Spectroscopy and Field Cycling NMR. Journal of Physical Chemistry A, 2010, 114, 7847-7855.	2.5	49
15	Glassy, Rouse, and Entanglement Dynamics As Revealed by Field Cycling ¹H NMR Relaxometry. Macromolecules, 2012, 45, 2390-2401.	4.8	45
16	Protracted Crossover to Reptation Dynamics: A Field Cycling ¹H NMR Study Including Extremely Low Frequencies. Macromolecules, 2012, 45, 1408-1416.	4.8	45
17	Quadrupole relaxation enhancementâ€”application to molecular crystals. Solid State Nuclear Magnetic Resonance, 2011, 40, 114-120.	2.3	44
18	Inter- and Intramolecular Relaxation in Molecular Liquids by Field Cycling 1H NMR Relaxometry. Applied Magnetic Resonance, 2013, 44, 153-168.	1.2	43

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19	General treatment of paramagnetic relaxation enhancement associated with translational diffusion. Journal of Chemical Physics, 2009, 130, 174104.	3.0	38
20	Polymer Dynamics of Polybutadiene in Nanoscopic Confinement As Revealed by Field Cycling ^1H NMR. Macromolecules, 2011, 44, 4017-4021.	4.8	38
21	Dynamics of ionic liquids in bulk and in confinement by means of ^1H NMR relaxometry of BMIM-OcSO ₄ in an SiO ₂ matrix as an example. Physical Chemistry Chemical Physics, 2016, 18, 23184-23194.	2.8	38
22	Iso-Frictional Mass Dependence of Diffusion of Polymer Melts Revealed by ^1H NMR Relaxometry. Macromolecules, 2013, 46, 5538-5548.	4.8	34
23	Field-dependent NMR relaxometry for Food Science: Applications and perspectives. Trends in Food Science and Technology, 2021, 110, 513-524.	15.1	34
24	Dynamical properties of EMIM-SCN confined in a SiO ₂ matrix by means of ^1H NMR relaxometry. Physical Chemistry Chemical Physics, 2017, 19, 32605-32616.	2.8	33
25	Nuclear spin relaxation in paramagnetic systems ($\text{S}^{\ominus 3/4}1$) under fast rotation conditions. Journal of Magnetic Resonance, 2003, 162, 229-240.	2.1	32
26	Revealing the Charge Transport Mechanism in Polymerized Ionic Liquids: Insight from High Pressure Conductivity Studies. Chemistry of Materials, 2017, 29, 8082-8092.	6.7	32
27	Joint analysis of ESR lineshapes and ^1H NMRD profiles of DOTA-Gd derivatives by means of the slow motion theory. Journal of Chemical Physics, 2011, 134, 024508.	3.0	30
28	Outer-sphere nuclear spin relaxation in paramagnetic systems: a low-field theory. Molecular Physics, 2001, 99, 1435-1445.	1.7	29
29	Analysis of ^1H - ^{14}N polarization transfer experiments in molecular crystals. Journal of Physics Condensed Matter, 2005, 17, 519-533.	1.8	29
30	Physical and Structural Characterization of Imidazolium-Based Organic-Inorganic Hybrid: (C ₃ N ₂ H ₅) ₂ [CoCl ₄]. Journal of Physical Chemistry A, 2016, 120, 2014-2021.	2.5	29
31	Structural characterization, thermal, dielectric, vibrational properties and molecular motions in. Journal of Solid State Chemistry, 2009, 182, 2949-2960.	2.9	28
32	Nuclear spin relaxation in solution of paramagnetic complexes with large transient zero-field splitting. Molecular Physics, 2003, 101, 2861-2874.	1.7	27
33	Nuclear and electron spin relaxation in paramagnetic complexes in solution: Effects of the quantum nature of molecular vibrations. Journal of Chemical Physics, 2004, 121, 2215-2227.	3.0	27
34	Dynamics of Solid Proteins by Means of Nuclear Magnetic Resonance Relaxometry. Biomolecules, 2019, 9, 652.	4.0	27
35	Field-dependent nuclear relaxation of spins $1/2$ induced by dipole-dipole couplings to quadrupole spins: LaF ₃ crystals as an example. Journal of Magnetic Resonance, 2006, 179, 250-262.	2.1	26
36	Extensive NMRD studies of Ni(II) salt solutions in water and water-glycerol mixtures. Journal of Magnetic Resonance, 2008, 195, 103-111.	2.1	26

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37	²⁰⁹ Pb quadrupole relaxation enhancement in solids as a step towards new contrast mechanisms in magnetic resonance imaging. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12710-12718.	2.8	25
38	Field-dependent proton relaxation in aqueous solutions of some manganese(II) complexes: a new interpretation. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 512-518.	2.6	24
39	Field cycling methods as a tool for dynamics investigations in solid state systems: Recent theoretical progress. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 35, 152-163.	2.3	24
40	Perspectives of Deuteron Field-Cycling NMR Relaxometry for Probing Molecular Dynamics in Soft Matter. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7754-7766.	2.6	24
41	Generalization of the Cole-Cole and Davidson and Kohlrausch functions to describe the primary response of glass-forming systems. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 365101.	1.8	22
42	Fluorine dynamics in LaF ₃ -type fast ionic conductors – Combined results of NMR and conductivity techniques. <i>Solid State Ionics</i> , 2008, 179, 2350-2357.	2.7	21
43	Dynamics and ferroelectric phase transition of (C ₃ N ₂ H ₅) ₅ Bi ₂ Br ₁₁ by means of ac calorimetry and ¹ H NMR relaxometry. <i>Chemical Physics</i> , 2013, 410, 19-24.	1.9	21
44	Mechanism of Water Dynamics in Hyaluronic Dermal Fillers Revealed by Nuclear Magnetic Resonance Relaxometry. <i>ChemPhysChem</i> , 2019, 20, 2816-2822.	2.1	21
45	Vibrational motions and nuclear spin relaxation in paramagnetic complexes: Hexaaquanickel(II) as an example. <i>Journal of Chemical Physics</i> , 2002, 116, 4079-4086.	3.0	20
46	Dynamics of Ferroelectric Bis(imidazolium) Pentachloroantimonate(III) by Means of Nuclear Magnetic Resonance ¹ H Relaxometry and Dielectric Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3564-3571.	2.5	20
47	¹ H NMR relaxometry and quadrupole relaxation enhancement as a sensitive probe of dynamical properties of solids – [C(NH ₂) ₃] ₃ Bi ₂ I ₉ as an example. <i>Journal of Chemical Physics</i> , 2016, 144, 054501.	3.0	20
48	Long-Time Diffusion in Polymer Melts Revealed by ¹ H NMR Relaxometry. <i>ACS Macro Letters</i> , 2013, 2, 96-99.	4.8	19
49	¹ H relaxation enhancement induced by nanoparticles in solutions: Influence of magnetic properties and diffusion. <i>Journal of Chemical Physics</i> , 2014, 140, 174504.	3.0	19
50	Evolution of solid state systems containing mutually coupled dipolar and quadrupole spins: Perturbation treatment. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 28, 180-192.	2.3	18
51	Simultaneous effects of relaxation and polarization transfer in LaF ₃ -type crystals as sources of dynamic information. <i>Solid State Nuclear Magnetic Resonance</i> , 2007, 31, 141-152.	2.3	18
52	Verification of the authenticity of drugs by means of NMR relaxometry – Viagra® as an example. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 135, 199-205.	2.8	17
53	¹ H relaxation dispersion in solutions of nitroxide radicals: Effects of hyperfine interactions with ¹⁴ N and ¹⁵ N nuclei. <i>Journal of Chemical Physics</i> , 2012, 137, 044512.	3.0	16
54	Systematic theoretical investigation of the zero-field splitting in Gd(III) complexes: Wave function and density functional approaches. <i>Journal of Chemical Physics</i> , 2015, 142, 034304.	3.0	16

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55	Nuclear spin relaxation in ligands outside of the first coordination sphere in a gadolinium (III) complex: Effects of intermolecular forces. <i>Journal of Chemical Physics</i> , 2002, 117, 1194-1200.	3.0	15
56	¹ H NMR relaxation in glycerol solutions of nitroxide radicals: Effects of translational and rotational dynamics. <i>Journal of Chemical Physics</i> , 2012, 136, 114504.	3.0	15
57	R 1 dispersion contrast at high field with fast field-cycling MRI. <i>Journal of Magnetic Resonance</i> , 2018, 290, 68-75.	2.1	14
58	Dynamics of Ionic Liquids in Confinement by Means of NMR Relaxometry – EMIM-FSI in a Silica Matrix as an Example. <i>Materials</i> , 2020, 13, 4351.	2.9	14
59	Slow dynamics of solid proteins – Nuclear magnetic resonance relaxometry versus dielectric spectroscopy. <i>Journal of Magnetic Resonance</i> , 2020, 314, 106721.	2.1	14
60	Complex Nuclear Relaxation Processes in Guanidinium Compounds [C(NH ₂) ₃ Sb ₂ X ₉ (X = Br, Cl): Effects of Quadrupolar Interactions. <i>Applied Magnetic Resonance</i> , 2010, 39, 233-249.	1.2	13
61	NMR Studies of Solid-State Dynamics. <i>Annual Reports on NMR Spectroscopy</i> , 2012, , 67-138.	1.5	13
62	Transport properties of CsHSO ₄ investigated by impedance spectroscopy and nuclear magnetic resonance. <i>Ionics</i> , 2008, 14, 223-226.	2.4	12
63	Primary and secondary relaxation process in plastically crystalline cyanocyclohexane studied by ² H nuclear magnetic resonance. II. Quantitative analysis. <i>Journal of Chemical Physics</i> , 2013, 138, 074504.	3.0	12
64	Structure and dynamics of [NH ₂ (CH ₃) ₂] ₃ Sb ₂ Cl ₉ by means of ¹ H NMR relaxometry – quadrupolar relaxation enhancement effects. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11197-11205.	2.8	12
65	Dynamics of [C ₃ H ₅ N ₂] ₆ [Bi ₄ Br ₁₈] by means of ¹ H NMR relaxometry and quadrupole relaxation enhancement. <i>Journal of Chemical Physics</i> , 2015, 142, 204503.	3.0	11
66	Estimation of the magnitude of quadrupole relaxation enhancement in the context of magnetic resonance imaging contrast. <i>Journal of Chemical Physics</i> , 2019, 150, 184306.	3.0	11
67	Exploring the water mobility in gelatin based soft candies by means of Fast Field Cycling (FFC) Nuclear Magnetic Resonance relaxometry. <i>Journal of Food Engineering</i> , 2021, 294, 110422.	5.2	11
68	ESR Studies of Paramagnetic Centers in Pharmaceutical Materials - Cefaclor and Clarithromycin as an Example. <i>Acta Physica Polonica A</i> , 2012, 121, 514-517.	0.5	11
69	Dynamics of fluorine ions in LaF ₃ -type crystals investigated by NMR lineshape analysis. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 1725-1741.	1.8	10
70	Peculiar relaxation dynamics of propylene carbonate derivatives. <i>Journal of Chemical Physics</i> , 2019, 150, 044504.	3.0	10
71	Towards applying NMR relaxometry as a diagnostic tool for bone and soft tissue sarcomas: a pilot study. <i>Scientific Reports</i> , 2020, 10, 14207.	3.3	10
72	Water mobility in cheese by means of Nuclear Magnetic Resonance relaxometry. <i>Journal of Food Engineering</i> , 2021, 298, 110483.	5.2	10

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73	Translational diffusion in paramagnetic liquids by ¹ H NMR relaxometry: Nitroxide radicals in solution. <i>Journal of Chemical Physics</i> , 2013, 138, 024506.	3.0	9
74	Recent development in ¹ H NMR relaxometry. <i>Annual Reports on NMR Spectroscopy</i> , 2020, , 119-184.	1.5	9
75	On the problem of field-gradient NMR measurements of intracrystalline diffusion in small crystallites – Water in NaA zeolites as an example. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 28, 244-249.	2.3	8
76	Tuning Nuclear Quadrupole Resonance: A Novel Approach for the Design of Frequency-Selective MRI Contrast Agents. <i>Physical Review X</i> , 2018, 8, .	8.9	8
77	Multi-quantum quadrupole relaxation enhancement effects in ²⁰⁹ Pb compounds. <i>Journal of Chemical Physics</i> , 2019, 150, 184309.	3.0	8
78	¹³ C NMR Lineshapes for the ¹³ C ₂ H ₂ Isotopomeric Spin Grouping. <i>ChemPhysChem</i> , 2002, 3, 933-938.	2.1	7
79	Internal dynamics of hydroxymethyl rotation from CH ₂ cross-correlated dipolar relaxation in methyl- ¹² -d-glucopyranoside. <i>Journal of Magnetic Resonance</i> , 2004, 167, 273-281.	2.1	7
80	Crystal structure and characterization of a novel ferroelastic ionic crystal: 1-Aminopyridinium iodide (C ₅ H ₇ N ₂) ⁺ I ⁻ . <i>Chemical Physics Letters</i> , 2012, 537, 38-47.	2.6	7
81	¹ H relaxation dispersion in solutions of nitroxide radicals: Influence of electron spin relaxation. <i>Journal of Chemical Physics</i> , 2013, 138, 124506.	3.0	7
82	The indications of tautomeric conversion in amorphous bicalutamide drug. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 110, 117-123.	4.0	7
83	¹³ C NMR Line Shapes in the Study of Dynamics of Perdeuterated Methyl Groups. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9018-9025.	2.5	6
84	Fluorine dynamics in BaF ₂ crystal lattice as an example of complex motion in a simple system. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 35, 187-193.	2.3	6
85	Thermodynamic properties and molecular motions in ferroelectric (C ₃ N ₂ H ₅) ₅ Sb ₂ Br ₁₁ . <i>Chemical Physics</i> , 2011, 380, 86-91.	1.9	6
86	Dynamic Properties of Glass-Formers Governed by the Frequency Dispersion of the Structural β -Relaxation: Examples from Prilocaine. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12699-12707.	2.6	6
87	Dynamics of Molecular Crystals by Means of ¹ H NMR Relaxometry: Dynamical Heterogeneity versus Homogenous Motion. <i>ChemPhysChem</i> , 2016, 17, 2329-2339.	2.1	6
88	Model – free approach to quadrupole spin relaxation in solid ²⁰⁹ Pb-aryl compounds. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23414-23423.	2.8	6
89	Correlated Dynamics in Ionic Liquids by Means of NMR Relaxometry: Butyltriethylammonium bis(Trifluoromethanesulfonyl)imide as an Example. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9117.	4.1	6
90	Water Dynamics in Whey-Protein-Based Composite Hydrogels by Means of NMR Relaxometry. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9672.	4.1	6

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91	ESR lineshape and ¹ H spin-lattice relaxation dispersion in propylene glycol solutions of nitroxide radicals – Joint analysis. Journal of Chemical Physics, 2013, 139, 244502.	3.0	5
92	Water dynamics in eggs by means of Nuclear Magnetic Resonance relaxometry. Journal of Magnetic Resonance, 2021, 327, 106976.	2.1	5
93	Use of Magic Sandwich Echo and Fast Field Cycling NMR Relaxometry on Honey Adulteration with Corn Syrup. Journal of the Science of Food and Agriculture, 2021, , .	3.5	5
94	NMR relaxation spectroscopy: Interference effects. Applied Magnetic Resonance, 1999, 17, 367-374.	1.2	4
95	Nuclear quadrupole resonance (NQR) enhancement by polarization transfer and its limitation due to relaxation. Journal Physics D: Applied Physics, 2007, 40, 7555-7559.	2.8	4
96	Nuclear quadrupole resonance lineshape analysis for different motional models: Stochastic Liouville approach. Journal of Chemical Physics, 2011, 135, 224511.	3.0	4
97	Dynamics of solid alanine by means of nuclear magnetic resonance relaxometry. Journal of Chemical Physics, 2017, 146, 164501.	3.0	4
98	Segmentation Integrating Watershed and Shape Priors Applied to Cardiac Delayed Enhancement MR Images. Irbm, 2017, 38, 224-227.	5.6	4
99	¹ H spin-lattice NMR relaxation in the presence of residual dipolar interactions – Dipolar relaxation enhancement. Journal of Magnetic Resonance, 2020, 318, 106783.	2.1	4
100	Field-dependent paramagnetic relaxation enhancement in solutions of Ni(II): What happens above the NMR proton frequency of 1 GHz?. Journal of Magnetic Resonance, 2020, 314, 106737.	2.1	4
101	Relationship between Translational and Rotational Dynamics of Alkyltriethylammonium-Based Ionic Liquids. International Journal of Molecular Sciences, 2022, 23, 1688.	4.1	4
102	¹ H spin-lattice relaxation in water solution of ²⁰⁹ Bi counterparts of Gd ³⁺ contrast agents. Molecular Physics, 2019, 117, 927-934.	1.7	3
103	Predicting quadrupole relaxation enhancement peaks in proton ¹ -NMRD profiles in solid Bi-aryl compounds from NQR parameters. Molecular Physics, 2019, 117, 910-920.	1.7	3
104	Field Dependent Electron and Quadrupole Spin Relaxation: A Unified Treatment. Acta Physica Polonica A, 2007, 111, 215-238.	0.5	3
105	Diffusion in oils versus their viscosity – Insight from Nuclear Magnetic Resonance relaxometry. Journal of Food Engineering, 2022, 317, 110848.	5.2	3
106	Water Dynamics in Starch Based Confectionery Products including Different Types of Sugar. Molecules, 2022, 27, 2216.	3.8	3
107	Dynamics of Î±-Tocopherol Acetate: Proton Relaxation Studies Supported by Molecular Dynamics Simulations. Applied Magnetic Resonance, 2010, 39, 273-283.	1.2	2
108	Sensitivity of ² H NMR spectroscopy to motional models: Proteins and highly viscous liquids as examples. Journal of Chemical Physics, 2012, 136, 244509.	3.0	2

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109	Aspects of structural order in ²⁰⁹ Bi-containing particles for potential MRI contrast agents based on quadrupole enhanced relaxation. <i>Molecular Physics</i> , 2019, 117, 935-943.	1.7	2
110	Sn-Based Alloys Synthesized in an Ionic Liquid at Room Temperature: Cu ₆ Sn ₅ as a Case Study. <i>ChemNanoMat</i> , 2020, 6, 639-647.	2.8	2
111	Relationship between macroscopic properties of honey and molecular dynamics – temperature effects. <i>Journal of Food Engineering</i> , 2022, 314, 110782.	5.2	2
112	Internal Dynamics of Ionic Liquids over a Broad Temperature Range – The Role of the Cation Structure. <i>Materials</i> , 2022, 15, 216.	2.9	2
113	Relative Cation-Anion Diffusion in Alkyltriethylammonium-Based Ionic Liquids. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5994.	4.1	2
114	Nuclear spin relaxation study of aqueous raffinose solution in the presence of a gadolinium contrast agent. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, 235-239.	1.9	1
115	Quadrupole relaxation enhancement and polarisation transfer in DMSO solution of [Bi(NO ₃) ₃ (H ₂ O) ₃] ⁺ 18-crown-6 in solid state. <i>Molecular Physics</i> , 2019, 117, 944-951.	1.7	1
116	Prospectives and Limitations of Nqr Signal Enhancement by Polarisation Transfer. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009, , 81-93.	0.3	1
117	Influence of Sample Rotation on the Shape of the Free Induction Decay. <i>Acta Physica Polonica A</i> , 1993, 84, 321-325.	0.5	1
118	Analysis of the shape of FID signal and NMR spinning sidebands for the Couette flow. <i>Physica B: Condensed Matter</i> , 2001, 301, 349-358.	2.7	0
119	Nuclear spin relaxation in systems of magnetic spheres. <i>Physica B: Condensed Matter</i> , 2003, 328, 302-311.	2.7	0
120	¹ H relaxation and dynamics of triphenylbismuth in deuterated solvents. <i>Molecular Physics</i> , 2019, 117, 921-926.	1.7	0
121	Dynamics of condensed matter by means of Nuclear Magnetic Resonance Relaxometry. <i>Molecular Physics</i> , 2019, 117, 831-831.	1.7	0
122	NMR Relaxation and ESR Lineshape of Anisotropically Rotating Paramagnetic Molecules. <i>Acta Physica Polonica A</i> , 2012, 121, 527-532.	0.5	0
123	Chapter 2. Essentials of the Theory of Spin Relaxation as Needed for Field-cycling NMR. <i>New Developments in NMR</i> , 0, , 42-66.	0.1	0