

Bernhard Bluemich

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2946669/publications.pdf>

Version: 2024-02-01

461
papers

13,075
citations

30070

54
h-index

53230

85
g-index

503
all docs

503
docs citations

503
times ranked

6019
citing authors

#	ARTICLE	IF	CITATIONS
1	The NMR MOUSE, a Mobile Universal Surface Explorer. <i>Journal of Magnetic Resonance Series A</i> , 1996, 122, 104-109.	1.6	422
2	Mobile single-sided NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2008, 52, 197-269.	7.5	401
3	The NMR-mouse: construction, excitation, and applications. <i>Magnetic Resonance Imaging</i> , 1998, 16, 479-484.	1.8	212
4	Profiles with microscopic resolution by single-sided NMR. <i>Journal of Magnetic Resonance</i> , 2005, 176, 64-70.	2.1	211
5	Miniaturization of NMR Systems: Desktop Spectrometers, Microcoil Spectroscopy, and ^1H NMR on a Chip for Chemistry, Biochemistry, and Industry. <i>Chemical Reviews</i> , 2014, 114, 5641-5694.	47.7	195
6	Small Magnets for Portable NMR Spectrometers. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4133-4135.	13.8	176
7	Dynamics of molecular reorientations: direct determination of rotational angles from two-dimensional NMR of powders. <i>Chemical Physics Letters</i> , 1986, 130, 84-90.	2.6	165
8	High-Resolution NMR Spectroscopy with a Portable Single-Sided Sensor. <i>Science</i> , 2005, 308, 1279-1279.	12.6	142
9	Chemical analysis by ultrahigh-resolution nuclear magnetic resonance in the Earth's magnetic field. <i>Nature Physics</i> , 2006, 2, 105-109.	16.7	132
10	NMR at low magnetic fields. <i>Chemical Physics Letters</i> , 2009, 477, 231-240.	2.6	127
11	Effect of Residual Dipolar Interactions on the NMR Relaxation in Cross-Linked Elastomers. <i>Macromolecules</i> , 1996, 29, 6222-6230.	4.8	126
12	Nuclear Magnetic Resonance in Inhomogeneous Magnetic Fields. <i>Journal of Magnetic Resonance</i> , 2000, 145, 246-258.	2.1	122
13	Ex Situ NMR in Highly Homogeneous Fields: ^1H Spectroscopy. <i>Science</i> , 2007, 315, 1110-1112.	12.6	122
14	Effect of Temperature and Annealing on the Phase Composition, Molecular Mobility, and the Thickness of Domains in Isotactic Polypropylene Studied by Proton Solid-State NMR, SAXS, and DSC. <i>Macromolecules</i> , 2007, 40, 3977-3989.	4.8	121
15	Solid state NMR investigation of cationic polymerized epoxy resins. <i>Journal of Applied Polymer Science</i> , 1992, 44, 289-295.	2.6	120
16	Noninvasive Testing of Art and Cultural Heritage by Mobile NMR. <i>Accounts of Chemical Research</i> , 2010, 43, 761-770.	15.6	115
17	3D imaging with a single-sided sensor: an open tomograph. <i>Journal of Magnetic Resonance</i> , 2004, 166, 228-235.	2.1	114
18	The effect of temperature and annealing on the phase composition, molecular mobility and the thickness of domains in high-density polyethylene. <i>Polymer</i> , 2007, 48, 763-777.	3.8	112

#	ARTICLE	IF	CITATIONS
19	Introduction to compact NMR: A review of methods. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 83, 2-11.	11.4	109
20	Para-hydrogen induced polarization of amino acids, peptides and deuterium ¹⁵ hydrogen gas. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13759.	2.8	108
21	Mobile sensor for high resolution NMR spectroscopy and imaging. <i>Journal of Magnetic Resonance</i> , 2009, 198, 80-87.	2.1	101
22	Miscibility of polymer blends investigated by ¹ H spin diffusion and ¹³ C NMR detection. <i>Magnetic Resonance in Chemistry</i> , 1990, 28, S3-S9.	1.9	100
23	Degradation of historical paper: nondestructive analysis by the NMR-MOUSE. <i>Journal of Magnetic Resonance</i> , 2003, 161, 204-209.	2.1	98
24	Residual dipolar couplings by ¹ H dipolar-encoded longitudinal magnetization, double- and triple-quantum nuclear magnetic resonance in cross-linked elastomers. <i>Journal of Chemical Physics</i> , 1999, 111, 402-415.	3.0	97
25	Near-Zero-Field Nuclear Magnetic Resonance. <i>Physical Review Letters</i> , 2011, 107, 107601.	7.8	92
26	Analysis of Polymer Materials by Surface NMR via the MOUSE. <i>Journal of Magnetic Resonance</i> , 1998, 130, 1-7.	2.1	89
27	Desktop NMR and Its Applications From Materials Science To Organic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6996-7010.	13.8	89
28	Self-diffusion measurements by a mobile single-sided NMR sensor with improved magnetic field gradient. <i>Journal of Magnetic Resonance</i> , 2006, 180, 229-235.	2.1	88
29	Ligand effects of NHC ¹ iridium catalysts for signal amplification by reversible exchange (SABRE). <i>Chemical Communications</i> , 2013, 49, 7388.	4.1	87
30	Low-field and benchtop NMR. <i>Journal of Magnetic Resonance</i> , 2019, 306, 27-35.	2.1	86
31	Two-dimensional imaging with a single-sided NMR probe. <i>Journal of Magnetic Resonance</i> , 2003, 163, 38-45.	2.1	85
32	One-Pot Synthesis of Hyperbranched Polyethoxysiloxanes. <i>Macromolecules</i> , 2006, 39, 1701-1708.	4.8	83
33	Low-gradient single-sided NMR sensor for one-shot profiling of human skin. <i>Journal of Magnetic Resonance</i> , 2012, 215, 74-84.	2.1	82
34	Direct Hyperpolarization of Nitrogen-15 in Aqueous Media with Parahydrogen in Reversible Exchange. <i>Journal of the American Chemical Society</i> , 2017, 139, 7761-7767.	13.7	80
35	A New Ir ¹ NHC Catalyst for Signal Amplification by Reversible Exchange in D ₂ O. <i>Chemistry - A European Journal</i> , 2016, 22, 9277-9282.	3.3	78
36	Anisotropy in Tendon Investigated in Vivo by a Portable NMR Scanner, the NMR-MOUSE. <i>Journal of Magnetic Resonance</i> , 2000, 144, 195-199.	2.1	77

#	ARTICLE	IF	CITATIONS
37	Simple NMR-mouse with a bar magnet. Concepts in Magnetic Resonance, 2002, 15, 255-261.	1.3	74
38	NMR spectroscopy with compact instruments. TrAC - Trends in Analytical Chemistry, 2016, 83, 12-26.	11.4	74
39	Two-Dimensional Solid-State NMR Spectroscopy: New Possibilities for the Investigation of the Structure and Dynamics of Solid Polymers [New Analytical Methods (38)]. Angewandte Chemie International Edition in English, 1988, 27, 1655-1672.	4.4	73
40	Deuteron two-dimensional exchange NMR in solids. Journal of Magnetic Resonance, 1988, 79, 269-290.	0.5	73
41	Analysis of historical porous building materials by the NMR-MOUSE [®] . Magnetic Resonance Imaging, 2003, 21, 249-255.	1.8	73
42	Domain sizes in heterogeneous polymers by spin diffusion using single-quantum and double-quantum dipolar filters. Solid State Nuclear Magnetic Resonance, 2003, 24, 39-67.	2.3	70
43	Structure and dynamics of water in native and tanned collagen fibers: Effect of crosslinking. International Journal of Biological Macromolecules, 2010, 47, 590-596.	7.5	70
44	Para-hydrogen raser delivers sub-millihertz resolution in nuclear magnetic resonance. Nature Physics, 2017, 13, 568-572.	16.7	70
45	One-Dimensional Imaging with a Palm-Size Probe. Journal of Magnetic Resonance, 2000, 144, 200-206.	2.1	69
46	Analysis of multisite 2D relaxation exchange NMR. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2010, 36A, 153-169.	0.5	67
47	Unexpected Diffusion Anisotropy of Carbon Dioxide in the Metal-Organic Framework Zn ₂ (dobpdc). Journal of the American Chemical Society, 2018, 140, 1663-1673.	13.7	64
48	Online Monitoring of Chemical Reactions by using Bench-Top Nuclear Magnetic Resonance Spectroscopy. ChemPhysChem, 2014, 15, 3060-3066.	2.1	63
49	Noninvasive nuclear magnetic resonance profiling of painting layers. Applied Physics Letters, 2008, 93, 033505.	3.3	62
50	AFM nanoindentation to determine Young's modulus for different EPDM elastomers. Polymer Testing, 2012, 31, 425-432.	4.8	62
51	Dynamic magic-angle spinning nmr spectroscopy: exchange-induced sidebands. Chemical Physics Letters, 1987, 139, 239-243.	2.6	61
52	Study of order and dynamic processes in tendon by NMR and MRI. Journal of Magnetic Resonance Imaging, 2007, 25, 362-380.	3.4	60
53	Fouling Behavior of Microstructured Hollow Fiber Membranes in Dead-End Filtrations: Critical Flux Determination and NMR Imaging of Particle Deposition. Langmuir, 2011, 27, 1643-1652.	3.5	60
54	High-resolution NMR spectroscopy under the fume hood. Physical Chemistry Chemical Physics, 2011, 13, 13172.	2.8	59

#	ARTICLE	IF	CITATIONS
55	Deactivation and regeneration of a naphtha reforming catalyst. Applied Catalysis A: General, 2002, 228, 39-52.	4.3	58
56	Cultural Heritage Studies with Mobile NMR. Angewandte Chemie - International Edition, 2018, 57, 7304-7312.	13.8	58
57	Compact NMR spectroscopy for real-time monitoring of a biodiesel production. Fuel, 2015, 139, 240-247.	6.4	57
58	Construction of a NMR-MOUSE with short dead time. Concepts in Magnetic Resonance, 2002, 15, 15-25.	1.3	56
59	Monitoring degradation in paper: non-invasive analysis by unilateral NMR. Part II. Journal of Magnetic Resonance, 2004, 170, 113-120.	2.1	55
60	Advances of unilateral mobile NMR in nondestructive materials testing. Magnetic Resonance Imaging, 2005, 23, 197-201.	1.8	54
61	Paths from weak to strong coupling in NMR. Physical Review A, 2010, 81, .	2.5	54
62	White noise nonlinear system analysis in nuclear magnetic resonance spectroscopy. Progress in Nuclear Magnetic Resonance Spectroscopy, 1987, 19, 331-417.	7.5	53
63	Mobile High Resolution Xenon Nuclear Magnetic Resonance Spectroscopy in the Earth's Magnetic Field. Physical Review Letters, 2005, 94, 197602.	7.8	52
64	Non-invasive spatial tissue discrimination in ancient mummies and bones in situ by portable nuclear magnetic resonance. Journal of Cultural Heritage, 2007, 8, 257-263.	3.3	52
65	NMR imaging of local cumulative permeate flux and local cake growth in submerged microfiltration processes. Journal of Membrane Science, 2011, 371, 52-64.	8.2	52
66	Single-sided magnetic resonance profiling in biological and materials science. Journal of Magnetic Resonance, 2013, 229, 142-154.	2.1	52
67	Chain orientation and slow dynamics in elastomers by mixed magic-Hahn echo decays. Journal of Chemical Physics, 2003, 118, 2411-2421.	3.0	51
68	Online monitoring of fermentation processes via non-invasive low-field NMR. Biotechnology and Bioengineering, 2015, 112, 1810-1821.	3.3	51
69	Particle motion in gas-fluidized granular systems by pulsed-field gradient nuclear magnetic resonance. Physical Review E, 2002, 65, 020301.	2.1	50
70	NMR Imaging of Elastomers: A Review. Rubber Chemistry and Technology, 1997, 70, 468-518.	1.2	49
71	Selective drug trace detection with low-field NMR. Analyst, The, 2011, 136, 1566.	3.5	48
72	External high-quality-factor resonator tunes up nuclear magnetic resonance. Nature Physics, 2015, 11, 767-771.	16.7	48

#	ARTICLE	IF	CITATIONS
73	Nonlinear noise analysis in nuclear magnetic resonance spectroscopy. 1D, 2D, and 3D spectra. Journal of Chemical Physics, 1983, 78, 1059-1076.	3.0	47
74	Optimized slim-line logging NMR tool to measure soil moisture in situ. Journal of Magnetic Resonance, 2013, 233, 74-79.	2.1	47
75	Preparation of Grignard reagents from magnesium metal under continuous flow conditions and on-line monitoring by NMR spectroscopy. Tetrahedron Letters, 2016, 57, 122-125.	1.4	47
76	Aging and phase separation of elastomers investigated by NMR imaging. Macromolecules, 1991, 24, 2183-2188.	4.8	46
77	Characterization of cross-link density in technical elastomers by the NMR-MOUSE. Solid State Nuclear Magnetic Resonance, 1998, 12, 183-190.	2.3	46
78	Trace Analysis by Low-Field NMR: Breaking the Sensitivity Limit. Analytical Chemistry, 2010, 82, 7078-7082.	6.5	46
79	Double-Quantum-Filtered NMR Signals in Inhomogeneous Magnetic Fields. Journal of Magnetic Resonance, 2001, 149, 258-263.	2.1	45
80	Anisotropy of collagen fiber orientation in sheep tendon by ¹ H double-quantum-filtered NMR signals. Journal of Magnetic Resonance, 2003, 162, 166-175.	2.1	45
81	Single-sided sensor for high-resolution NMR spectroscopy. Journal of Magnetic Resonance, 2006, 180, 274-279.	2.1	44
82	Improved Halbach sensor for NMR scanning of drill cores. Magnetic Resonance Imaging, 2007, 25, 474-480.	1.8	44
83	Highly Stable and Finely Tuned Magnetic Fields Generated by Permanent Magnet Assemblies. Physical Review Letters, 2013, 110, 180801.	7.8	44
84	General Analytical Description of Spin-Diffusion for a Three-Domain Morphology. Application to Melt-Spun Nylon 6 Fibers. Journal of Physical Chemistry B, 2003, 107, 5357-5370.	2.6	43
85	A mobile NMR device for measurements of porosity and pore size distributions of drilled core samples. , 2004, 23B, 26-32.		43
86	NMR Characterization of the Pore Structure and Anisotropic Self-Diffusion in Salt Water Ice. Journal of Magnetic Resonance, 2000, 143, 376-381.	2.1	42
87	Influence of tensile stress on the phenylene flips in polycarbonate studied by two-dimensional solid-state NMR. Macromolecules, 1992, 25, 5542-5544.	4.8	41
88	Presentation of sideband envelopes by two-dimensional one-pulse (TOP) spectroscopy. Solid State Nuclear Magnetic Resonance, 1992, 1, 111-113.	2.3	41
89	Proton magnetization enhancement of solvents with hyperpolarized xenon in very low-magnetic fields. Chemical Physics Letters, 2001, 348, 263-269.	2.6	41
90	Characterization of aging and solvent treatments of painted surfaces using single-sided NMR. Magnetic Resonance in Chemistry, 2015, 53, 58-63.	1.9	41

#	ARTICLE	IF	CITATIONS
91	Investigation of stress distributions in filled polysiloxane by NMR imaging. Acta Polymerica, 1993, 44, 125-131.	0.9	39
92	Indication of Heterogeneity in Chain-Segment Order of a PDMS Layer Grafted onto a Silica Surface by ¹ H Multiple-Quantum NMR. Macromolecules, 2003, 36, 4411-4413.	4.8	39
93	Structural Changes from the Pure Components to Nylon 6~Montmorillonite Nanocomposites Observed by Solid-State NMR. Chemistry of Materials, 2007, 19, 1089-1097.	6.7	39
94	Distributions of transverse relaxation times for soft-solids measured in strongly inhomogeneous magnetic fields. Journal of Magnetic Resonance, 2009, 196, 178-190.	2.1	39
95	Noninvasive depth profiling of walls by portable nuclear magnetic resonance. Analytical and Bioanalytical Chemistry, 2010, 397, 3117-3125.	3.7	39
96	Low-field NMR logging sensor for measuring hydraulic parameters of model soils. Journal of Hydrology, 2011, 406, 30-38.	5.4	39
97	Stacked planar micro coils for single-sided NMR applications. Journal of Magnetic Resonance, 2013, 230, 176-185.	2.1	39
98	Continuous hyperpolarization with parahydrogen in a membrane reactor. Journal of Magnetic Resonance, 2018, 291, 8-13.	2.1	39
99	NMR imaging of polymer materials. Die Makromolekulare Chemie, 1993, 194, 2133-2161.	1.1	37
100	Velocity distributions remotely measured with a single-sided NMR sensor. Journal of Magnetic Resonance, 2004, 171, 124-130.	2.1	37
101	Aging Effects on the Phase Composition and Chain Mobility of Isotactic Poly(propylene). Macromolecular Materials and Engineering, 2008, 293, 847-857.	3.6	37
102	Mobile Low-Field ¹ H NMR Spectroscopy Desktop Analysis of Biodiesel Production. Applied Magnetic Resonance, 2013, 44, 41-53.	1.2	37
103	NMR of Multipolar Spin States Excited in Strongly Inhomogeneous Magnetic Fields. Journal of Magnetic Resonance, 2002, 154, 60-72.	2.1	36
104	Magnetic Resonance Visualisation of Flow and Pore Structure in Packed Beds with Low Aspect Ratio. Chemical Engineering and Technology, 2005, 28, 219-225.	1.5	36
105	Small-scale instrumentation for nuclear magnetic resonance of porous media. New Journal of Physics, 2011, 13, 015003.	2.9	36
106	Deuteron double-quantum NMR imaging of molecular order and mobility in solid polymers. Molecular Physics, 1990, 71, 477-489.	1.7	35
107	Molecular order and density of skin and core in drawn polypropylene investigated by spectroscopic carbon-13 NMR imaging. Macromolecules, 1992, 25, 3315-3316.	4.8	35
108	NMR imaging of flow in hollow fiber hemodialyzers. Journal of Membrane Science, 1998, 138, 287-295.	8.2	35

#	ARTICLE	IF	CITATIONS
109	Phase Composition of Block Copoly(ether ester) Thermoplastic Elastomers Studied by Solid-State NMR Techniques. <i>Macromolecules</i> , 2003, 36, 7598-7606.	4.8	35
110	Investigation of soft segments of thermoplastic polyurethane by NMR, differential scanning calorimetry and rebound resilience. <i>Polymer Testing</i> , 2006, 25, 203-213.	4.8	35
111	NMR Imaging of Falling Water Drops. <i>Physical Review Letters</i> , 2001, 87, 144501.	7.8	34
112	Segmental Anisotropy in Strained Elastomers by ^1H NMR of Multipolar Spin States. <i>Macromolecules</i> , 2002, 35, 6083-6085.	4.8	34
113	Self-diffusion measurements by a constant-relaxation method in strongly inhomogeneous magnetic fields. <i>Journal of Magnetic Resonance</i> , 2003, 164, 310-320.	2.1	34
114	Analysis of molecular structures by homo- and hetero-nuclear J-coupled NMR in ultra-low field. <i>Chemical Physics Letters</i> , 2007, 440, 308-312.	2.6	34
115	Thermal Denaturation of Hydrated Wool Keratin by ^1H Solid-State NMR. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2184-2192.	2.6	34
116	Spatially resolved D^2 correlation NMR of porous media. <i>Journal of Magnetic Resonance</i> , 2014, 242, 41-48.	2.1	34
117	Dynamics of Polyether Polyols and Polyether Carbonate Polyols. <i>Macromolecules</i> , 2016, 49, 8995-9003.	4.8	34
118	Surface UV aging of elastomers investigated with microscopic resolution by single-sided NMR. <i>Journal of Magnetic Resonance</i> , 2008, 192, 1-7.	2.1	33
119	Polyethylene/palygorskite nanocomposites: Preparation by in situ polymerization and their characterization. <i>Polymer</i> , 2010, 51, 4686-4697.	3.8	33
120	Ancient Roman wall paintings mapped nondestructively by portable NMR. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1441-1452.	3.7	33
121	Rheology of Blood by NMR. <i>Journal of Magnetic Resonance</i> , 2001, 152, 87-94.	2.1	32
122	Axial Dispersion and Wall Effects in Narrow Fixed Bed Reactors: A Comparative Study Based on RTD and NMR Measurements. <i>Chemical Engineering and Technology</i> , 2004, 27, 866-873.	1.5	32
123	Permeability Prediction for Low Porosity Rocks by Mobile NMR. <i>Pure and Applied Geophysics</i> , 2009, 166, 1125-1163.	1.9	32
124	Organometallic Complexes in Supported Ionic Liquid Phase (SILP) Catalysts: A Phip...NMR Spectroscopy Study. <i>Chemistry - A European Journal</i> , 2011, 17, 13795-13799.	3.3	32
125	Fundamental Aspects of Parahydrogen Enhanced Low-Field Nuclear Magnetic Resonance. <i>Physical Review Letters</i> , 2013, 110, 137602.	7.8	32
126	Shimming Halbach magnets utilizing genetic algorithms to profit from material imperfections. <i>Journal of Magnetic Resonance</i> , 2016, 265, 83-89.	2.1	32

#	ARTICLE	IF	CITATIONS
127	Soft-matter analysis by the NMR-MOUSE. <i>Macromolecular Materials and Engineering</i> , 2000, 276-277, 25-37.	3.6	32
128	Magnetization filters: Applications to NMR imaging of elastomers. <i>Magnetic Resonance Imaging</i> , 1992, 10, 779-788.	1.8	31
129	² H-NMR Imaging of Stress in Strained Elastomers. <i>Macromolecules</i> , 1997, 30, 1038-1043.	4.8	31
130	NMR imaging of materials. <i>Current Opinion in Solid State and Materials Science</i> , 2001, 5, 195-202.	11.5	31
131	Complex Morphology of Melt-Spun Nylon-6 Fibres Investigated by ¹ H Double-Quantum-Filtered NMR Spin-Diffusion Experiments. <i>ChemPhysChem</i> , 2004, 5, 876-883.	2.1	31
132	Velocity imaging by ex situ NMR. <i>Journal of Magnetic Resonance</i> , 2005, 173, 254-258.	2.1	31
133	Temperature stability and photodimerization kinetics of ¹³ C-cinnamic acid and comparison to its ¹³ C-polymorph as studied by solid-state NMR spectroscopy techniques and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5898.	2.8	31
134	Hyperpolarizing Water with Parahydrogen. <i>ChemPhysChem</i> , 2017, 18, 2426-2429.	2.1	31
135	Two-Dimensional PFG NMR for Encoding Correlations of Position, Velocity, and Acceleration in Fluid Transport. <i>Journal of Magnetic Resonance</i> , 2000, 146, 169-180.	2.1	30
136	From LASER physics to the para-hydrogen pumped RASER. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 114-115, 1-32.	7.5	30
137	Production of highly concentrated and hyperpolarized metabolites within seconds in high and low magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22849-22856.	2.8	30
138	Phenomena in J -coupled nuclear magnetic resonance spectroscopy in low magnetic fields. <i>Physical Review A</i> , 2007, 76, .	2.5	29
139	Quaternions as a practical tool for the evaluation of composite rotations. <i>Journal of Magnetic Resonance</i> , 1985, 61, 356-362.	0.5	28
140	Two-dimensional one-pulse rotational echo spectra. <i>Solid State Nuclear Magnetic Resonance</i> , 1994, 3, 237-240.	2.3	28
141	Noninvasive ¹ H and ²³ Na nuclear magnetic resonance imaging of ancient Egyptian human mummified tissue. <i>Magnetic Resonance Imaging</i> , 2007, 25, 1341-1345.	1.8	28
142	NMR with excitation modulated by Frank sequences. <i>Journal of Magnetic Resonance</i> , 2009, 199, 18-24.	2.1	28
143	Monitoring the mechanism and kinetics of a transesterification reaction for the biodiesel production with low field ¹ H NMR spectroscopy. <i>Fuel</i> , 2019, 243, 192-201.	6.4	28
144	Cleaning oil paintings: NMR relaxometry and SPME to evaluate the effects of green solvents and innovative green gels. <i>New Journal of Chemistry</i> , 2019, 43, 8229-8238.	2.8	28

#	ARTICLE	IF	CITATIONS
145	The effect of crosslinking in elastomers investigated by NMR analysis of ¹³ C edited transverse ¹ H NMR relaxation. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 581-593.	2.2	27
146	Segmental Anisotropy in Strained Elastomers Detected with a Portable NMR Scanner. <i>Solid State Nuclear Magnetic Resonance</i> , 2002, 22, 327-343.	2.3	27
147	Prediction of multicomponent mutual diffusion in liquids: Model discrimination using NMR data. <i>Fluid Phase Equilibria</i> , 2009, 278, 27-35.	2.5	27
148	Unilateral NMR and thermal microscopy studies of vegetable tanned leather exposed to dehydrothermal treatment and light irradiation. <i>Microchemical Journal</i> , 2016, 129, 158-165.	4.5	27
149	Solid State NMR spectroscopy in polymer science. <i>Advanced Materials</i> , 1990, 2, 72-81.	21.0	26
150	Application of nuclear magnetic resonance magic sandwich echo imaging to solid polymers. <i>Solid State Nuclear Magnetic Resonance</i> , 1994, 3, 59-66.	2.3	26
151	² H NMR Imaging of Strained Elastomers. <i>Journal of Magnetic Resonance Series A</i> , 1996, 119, 197-203.	1.6	26
152	Spatially Resolved NMR Spin Diffusion in Solid Polymers. <i>Journal of Magnetic Resonance Series A</i> , 1996, 120, 190-200.	1.6	26
153	Multi-echo imaging in highly inhomogeneous magnetic fields. <i>Journal of Magnetic Resonance</i> , 2004, 166, 76-81.	2.1	26
154	NMR velocimetry of flow in model fixed-bed reactors of low aspect ratio. <i>AIChE Journal</i> , 2005, 51, 392-405.	3.6	26
155	Multispin moments edited by multiple-quantum NMR: application to elastomers. <i>Journal of Magnetic Resonance</i> , 2005, 172, 98-109.	2.1	26
156	Compact low-field NMR spectroscopy and chemometrics: A tool box for quality control of raw rubber. <i>Polymer</i> , 2018, 141, 154-165.	3.8	26
157	Non-invasive mobile technology to study the stratigraphy of ancient Cremonese violins: OCT, NMR-MOUSE, XRF and reflection FT-IR spectroscopy. <i>Microchemical Journal</i> , 2020, 155, 104754.	4.5	26
158	In situ observation of diffusion and reaction dynamics in gel microreactors by chemically resolved NMR microscopy. <i>Applied Magnetic Resonance</i> , 2002, 22, 235.	1.2	25
159	Monitoring of fluid motion in a micromixer by dynamic NMR microscopy. <i>Lab on A Chip</i> , 2006, 6, 90-95.	6.0	25
160	Saturation in Deuteron Hadamard NMR Spectroscopy of Solids. <i>Journal of Magnetic Resonance Series A</i> , 1993, 102, 73-80.	1.6	24
161	New approaches to the visualization, quantification and explanation of acid-induced water loss from Ca-alginate hydrogel beads. <i>Journal of Microencapsulation</i> , 2004, 21, 565-573.	2.8	24
162	Mobile NMR for porosity analysis of drill core sections. <i>Journal of Geophysics and Engineering</i> , 2004, 1, 177-180.	1.4	24

#	ARTICLE	IF	CITATIONS
163	Volume-selective magnetic resonance imaging using an adjustable, single-sided, portable sensor. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20601-20604.	7.1	24
164	Rapid Multiphase Flow Dynamics Mapped by Single-Shot MRI Velocimetry. ChemPhysChem, 2010, 11, 2630-2638.	2.1	24
165	Estimation of Self-Diffusion Coefficients of Small Penetrants in Semicrystalline Polymers Using Single-Sided NMR. Macromolecular Rapid Communications, 2012, 33, 943-947.	3.9	24
166	Mobile compact 1H NMR spectrometer promises fast quality control of diesel fuel. Fuel, 2017, 203, 171-178.	6.4	24
167	3D MRI velocimetry of non-transparent 3D-printed staggered herringbone mixers. Chemical Engineering Journal, 2018, 343, 54-60.	12.7	24
168	Mobile NMR for Analysis of Polyethylene Pipes. Acta Physica Polonica A, 2005, 108, 13-23.	0.5	24
169	Multidimensional spectroscopy. Molecular Physics, 1983, 48, 955-968.	1.7	23
170	Molecular motions from two-dimensional NMR of powders: Comparison of rotational jumps and diffusive reorientations. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1987, 91, 1141-1145.	0.9	23
171	Solid-state NMR imaging methods. Part I: Strong field gradients. Concepts in Magnetic Resonance, 2000, 12, 188-206.	1.3	23
172	Two-dimensional representation of position, velocity and acceleration by PFG-NMR. Applied Magnetic Resonance, 2000, 18, 101-114.	1.2	23
173	NMR Images of Proton Residual Dipolar Coupling from Strained Elastomers. Macromolecules, 2001, 34, 4019-4026.	4.8	23
174	Molecular dynamics of elastomers investigated by DMTA and the NMR-MOUSE [®] . Colloid and Polymer Science, 2002, 280, 758-764.	2.1	23
175	Desktop NMR for structure elucidation and identification of strychnine adulteration. Analyst, The, 2017, 142, 1459-1470.	3.5	23
176	Contrast in solid-state NMR imaging part I: Principles. Concepts in Magnetic Resonance, 1998, 10, 19-31.	1.3	22
177	1H NMR Imaging of Residual Dipolar Couplings in Cross-Linked Elastomers: Dipolar-Encoded Longitudinal Magnetization, Double-Quantum, and Triple-Quantum Filters. Journal of Magnetic Resonance, 1999, 140, 432-441.	2.1	22
178	Solid-state NMR imaging methods. Part II: Line narrowing. Concepts in Magnetic Resonance, 2000, 12, 269-288.	1.3	22
179	Surface induced order and dynamic heterogeneity in ultra thin polymer films: A 1H multiple-quantum NMR study. Chemical Physics Letters, 2004, 393, 416-420.	2.6	22
180	Application of k- and q-space encoding NMR techniques on granular media in a 3D model fluidized bed reactor. Journal of Magnetic Resonance, 2006, 178, 308-317.	2.1	22

#	ARTICLE	IF	CITATIONS
181	The roles of hydration and evaporation during the drying of a cement paste by localized NMR. Cement and Concrete Research, 2013, 48, 86-96.	11.0	22
182	Moisture dynamics in wall paintings monitored by single-sided NMR. Magnetic Resonance in Chemistry, 2015, 53, 48-57.	1.9	22
183	Direct correlation of internal gradients and pore size distributions with low field NMR. Journal of Magnetic Resonance, 2016, 267, 37-42.	2.1	22
184	2D NMR Spectra from Stochastic NMR. Coupling and Exchange Information from Third Order Frequency Kernel. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1980, 84, 1090-1102.	0.9	21
185	Solid-state NMR of Heterogeneous Materials. Advanced Materials, 1991, 3, 237-245.	21.0	21
186	Weathering investigation of PVC coatings on iron sheets by the NMR MOUSE. Advanced Materials, 1997, 9, 987-989.	21.0	21
187	Two-Dimensional NMR of Velocity Exchange: VEXSY and SERPENT. Journal of Magnetic Resonance, 2001, 152, 162-167.	2.1	21
188	An NMR-MOUSE [®] for Analysis of Thin Objects. Macromolecular Materials and Engineering, 2003, 288, 312-317.	3.6	21
189	Phase transitions of monoglyceride emulsifier systems and pearlescent effects in cosmetic creams studied by ¹³ C NMR spectroscopy and DSC. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 290, 247-255.	4.7	21
190	Study of Uniaxially Stretched Isotactic Poly(propylene) by ¹ H Solid-State NMR and IR Spectroscopy. Macromolecular Chemistry and Physics, 2008, 209, 734-745.	2.2	21
191	Phase behavior of liquid-crystalline emulsion systems. Journal of Colloid and Interface Science, 2010, 349, 554-559.	9.4	21
192	NMR spectroscopy in the milli-Tesla regime: Measurement of ¹ H chemical-shift differences below the line width. Chemical Physics Letters, 2010, 485, 217-220.	2.6	21
193	Miniaturized multi-coil arrays for functional planar imaging with a single-sided NMR sensor. Journal of Magnetic Resonance, 2015, 254, 10-18.	2.1	21
194	Segmental and Local Chain Mobilities in Elastomers by ¹³ C- ¹ H Residual Heteronuclear Dipolar Couplings. Journal of Physical Chemistry B, 2004, 108, 10911-10918.	2.6	20
195	Morphology of Thermoplastic Polyurethanes by ¹ H Spin-Diffusion NMR. Macromolecules, 2006, 39, 4802-4810.	4.8	20
196	Mobile NMR for geophysical analysis and materials testing. Petroleum Science, 2009, 6, 1-7.	4.9	20
197	Determining object boundaries from MR images with sub-pixel resolution: Towards in-line inspection with a mobile tomograph. Journal of Magnetic Resonance, 2010, 207, 53-58.	2.1	20
198	The heterogeneity of segmental dynamics of filled EPDM by ¹ H transverse relaxation NMR. Journal of Magnetic Resonance, 2011, 208, 156-162.	2.1	20

#	ARTICLE	IF	CITATIONS
199	Impact of Ionic Liquids on the Structure and Dynamics of Collagen. Journal of Physical Chemistry B, 2018, 122, 1060-1065.	2.6	20
200	Electrochemical NMR spectroscopy: Electrode construction and magnetic sample stirring. Microchemical Journal, 2019, 146, 658-663.	4.5	20
201	The influence of molecular motion on cross-polarization in cross-linked elastomers. Solid State Nuclear Magnetic Resonance, 1996, 6, 213-223.	2.3	19
202	The NMR-MOUSE®: quality control of elastomers. Magnetic Resonance Imaging, 2001, 19, 497-499.	1.8	19
203	Self-diffusion anisotropy of water in sheep Achilles tendon. NMR in Biomedicine, 2005, 18, 577-586.	2.8	19
204	Description of intra-diffusion in liquid mixtures. Fluid Phase Equilibria, 2006, 245, 158-167.	2.5	19
205	Heterogeneity of Nanofilled EPDM Elastomers Investigated by Inverse Laplace Transform ¹ H NMR Relaxometry and Rheometry. Macromolecular Chemistry and Physics, 2010, 211, 1579-1594.	2.2	19
206	Desktop MRI as a promising tool for mapping intra-aneurismal flow. Magnetic Resonance Imaging, 2015, 33, 328-335.	1.8	19
207	Static and MAS ³⁵ Cl NMR and Molecular Motions of ClO Ions in the Various Phases of Multimethylammonium Perchlorates. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1986, 90, 1153-1159.	0.9	18
208	Enhanced sensitivity to residual dipolar couplings of elastomers by higher-order multiple-quantum NMR. Journal of Magnetic Resonance, 2004, 169, 19-26.	2.1	18
209	Spatial distribution of coke residues in porous catalyst pellets analyzed by field-cycling relaxometry and parameter imaging. Magnetic Resonance Imaging, 2005, 23, 383-386.	1.8	18
210	Multiecho sequence for velocity imaging in inhomogeneous rf fields. Journal of Magnetic Resonance, 2006, 182, 143-151.	2.1	18
211	Chaos in catalyst pores. Chemical Engineering Journal, 2007, 134, 35-44.	12.7	18
212	Aging and Degradation of LDPE by Compact NMR. Macromolecular Materials and Engineering, 2015, 300, 1063-1070.	3.6	18
213	Desktop NMR spectroscopy for real-time monitoring of an acetalization reaction in comparison with gas chromatography and NMR at 9.4 T. Analytical and Bioanalytical Chemistry, 2017, 409, 7223-7234.	3.7	18
214	Beyond compact NMR. Microporous and Mesoporous Materials, 2018, 269, 3-6.	4.4	18
215	Variable magnet arrays to passively shim compact permanent-yoke magnets. Journal of Magnetic Resonance, 2019, 298, 77-84.	2.1	18
216	NMR relaxometry of oil paint binders. Magnetic Resonance in Chemistry, 2020, 58, 830-839.	1.9	18

#	ARTICLE	IF	CITATIONS
217	Nonlinear Incoherent Spectroscopy: Noisy. <i>Advances in Magnetic and Optical Resonance</i> , 1992, 17, 1-46.	1.7	18
218	2D magic angle spinning NMR spectroscopy: Correlation between molecular order and dynamics. <i>Chemical Physics Letters</i> , 1988, 150, 1-5.	2.6	17
219	Spatially resolved solid-state MAS-NMR-spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 1996, 6, 375-388.	2.3	17
220	Selective NMR excitation in strongly inhomogeneous magnetic fields. <i>Journal of Magnetic Resonance</i> , 2003, 164, 220-227.	2.1	17
221	Visualizing flow vortices inside a single levitated drop. <i>Journal of Magnetic Resonance</i> , 2005, 177, 74-85.	2.1	17
222	Reaction monitoring of hydrogen peroxide decomposition by NMR relaxometry. <i>Chemical Engineering Science</i> , 2010, 65, 1394-1399.	3.8	17
223	Compact low-field NMR: Unmasking morphological changes from solvent-induced crystallization in polyethylene. <i>European Polymer Journal</i> , 2016, 80, 48-57.	5.4	17
224	When the MOUSE leaves the house. <i>Magnetic Resonance</i> , 2021, 2, 149-160.	1.9	17
225	Nuclear-magnetic-resonance Imaging of Water Distributions in Loop-pile Nylon Carpet Tiles. <i>Journal of the Textile Institute</i> , 1998, 89, 436-440.	1.9	16
226	Spatiotemporal correlations in transport processes determined by multiple pulsed field gradient experiments. <i>Concepts in Magnetic Resonance</i> , 2002, 14, 172-211.	1.3	16
227	Investigation of Soft Component Mobility in Thermoplastic Elastomers using Homo- and Heteronuclear Dipolar Filtered ^1H Double Quantum NMR Experiments. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 83-94.	2.2	16
228	Investigation of Thermal Aging of Polyamide 4,6 by ^1H Solid-State NMR. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2085-2095.	2.2	16
229	Single-Sided ^1H NMR of Semicrystalline Polymers. <i>Macromolecular Symposia</i> , 2013, 327, 29-38.	0.7	16
230	^1H -NMR measurements of proton mobility in nano-crystalline YSZ. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19825.	2.8	16
231	Continuum-Scale Modeling of Liquid Redistribution in a Stack of Thin Hydrophilic Fibrous Layers. <i>Transport in Porous Media</i> , 2018, 122, 203-219.	2.6	16
232	Two-dimensional ^{13}C exchange spectroscopy with off-magic angle spinning. <i>Chemical Physics Letters</i> , 1989, 161, 55-59.	2.6	15
233	Relaxation—Relaxation Experiments in Natural Porous Media with Portable Halbach Magnets. <i>Vadose Zone Journal</i> , 2010, 9, 893-897.	2.2	15
234	Single-Sided NMR. , 2011, , 1-10.		15

#	ARTICLE	IF	CITATIONS
235	A Miniaturized NMR-MOUSE with a High Magnetic Field Gradient (Mini-MOUSE). Applied Magnetic Resonance, 2015, 46, 181-202.	1.2	15
236	Polarization transfer efficiency in PHIP experiments. Physical Chemistry Chemical Physics, 2017, 19, 21933-21937.	2.8	15
237	SABRE polarized low field rare-spin spectroscopy. Journal of Chemical Physics, 2020, 152, 184202.	3.0	15
238	Multi-dimensional spectroscopy. Molecular Physics, 1983, 48, 969-980.	1.7	14
239	NMR Imaging of Materials. Angewandte Chemie, 1988, 100, 1460-1461.	2.0	14
240	Thermo-oxidative aging of elastomers: a temperature control unit for operation with the NMR-MOUSE. Applied Magnetic Resonance, 2004, 27, 361-370.	1.2	14
241	Direct determination of the concentration dependence of diffusivities using combined model-based Raman and NMR experiments. Fluid Phase Equilibria, 2009, 277, 96-106.	2.5	14
242	Morphology and Molecular Mobility of Fibrous Hard α -Keratins by ^1H , ^{13}C , and ^{129}Xe NMR. Journal of Physical Chemistry B, 2009, 113, 12136-12147.	2.6	14
243	An Efficacious Target-Field Approach to Design Shim Coils for Halbach Magnet of Mobile NMR Sensors. Applied Magnetic Resonance, 2012, 42, 101-112.	1.2	14
244	Compact NMR Spectroscopy with Shift Reagents. Applied Magnetic Resonance, 2016, 47, 1135-1146.	1.2	14
245	Sustainable Electrocoupling of the Biogenic Valeric Acid under in Situ Low-Field Nuclear Magnetic Resonance Conditions. ACS Sustainable Chemistry and Engineering, 2019, 7, 18288-18296.	6.7	14
246	Spectroscopic imaging of solids by deuteron magic-angle-spinning NMR. Chemical Physics Letters, 1991, 184, 251-255.	2.6	13
247	Spectral parameters for quantitative mobility contrast in NMR imaging of solid polymers. Solid State Nuclear Magnetic Resonance, 1996, 6, 357-365.	2.3	13
248	NMR imaging of technical SBR vulcanizates under dynamic mechanical load. Macromolecular Chemistry and Physics, 1997, 198, 2729-2742.	2.2	13
249	Spatially resolved NMR in polymer science. Macromolecular Symposia, 1999, 141, 83-93.	0.7	13
250	Soft-matter analysis by the NMR-MOUSE. Macromolecular Materials and Engineering, 2000, 276-277, 25-37.	3.6	13
251	Parameter maps of ^1H residual dipolar couplings in tendon under mechanical load. Journal of Magnetic Resonance, 2003, 165, 9-17.	2.1	13
252	Flow Dynamics Measured and Simulated Inside a Single Levitated Droplet. Industrial & Engineering Chemistry Research, 2006, 45, 416-423.	3.7	13

#	ARTICLE	IF	CITATIONS
253	Proton exchange in hybrid sulfonated poly(ether ether ketone)-silica membranes by ¹ H solid-state NMR. <i>Chemical Physics Letters</i> , 2008, 456, 227-230.	2.6	13
254	Solid-state single-scan 2D NMR under magic-angle-spinning. <i>Chemical Physics Letters</i> , 2008, 459, 188-193.	2.6	13
255	Micrometer scale resolution of materials by stray-field Magnetic Resonance Imaging. <i>Journal of Magnetic Resonance</i> , 2011, 211, 60-66.	2.1	13
256	Investigation of Historical Hard Rubber Ornaments of Charles Goodyear. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 245-254.	2.2	13
257	Essential NMR. , 2019, , .		13
258	NMR on the Road: Non-destructive Characterization of the Crumb-Rubber Fraction in Asphalt. <i>Applied Magnetic Resonance</i> , 2019, 50, 497-509.	1.2	13
259	Saturation in hadamard NMR spectroscopy and its description by a correlation expansion. <i>Journal of Magnetic Resonance</i> , 1982, 46, 385-405.	0.5	12
260	Stochastic time resolved CIDNP spectroscopy. <i>Molecular Physics</i> , 1984, 51, 1283-1291.	1.7	12
261	Two-dimensional interferometry. <i>Review of Scientific Instruments</i> , 1987, 58, 911-919.	1.3	12
262	2D-solid state NMR studies of ultraslow motions: phenylflips and chain motions in the glassy state. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 777-780.	3.1	12
263	Nondestructive evaluation of polymer materials by solid state NMR imaging. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991, 44, 37-45.	0.6	12
264	Nuclear magnetic resonance imaging of electrical trees in PE. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 1997, 4, 280-285.	2.9	12
265	Order parameters of the orientation distribution of collagen fibers in Achilles tendon by ¹ H NMR of multipolar spin states. <i>NMR in Biomedicine</i> , 2003, 16, 479-483.	2.8	12
266	Morphology and chain dynamics during collapse transition of PNIPAM gels studied by combined imaging, relaxometry and ¹²⁹ Xe spectroscopy techniques. <i>Magnetic Resonance Imaging</i> , 2005, 23, 249-253.	1.8	12
267	Segmental orientation of thermoplastic polyurethanes investigated by ¹ H double-quantum NMR. Correlation with thermodynamic and mechanical properties. <i>Polymer</i> , 2006, 47, 2069-2079.	3.8	12
268	Spatial Localization with Single-Sided NMR Sensors. <i>Applied Magnetic Resonance</i> , 2007, 32, 171-184.	1.2	12
269	Quantification of H ₂ O ₂ concentrations in aqueous solutions by means of combined NMR and pH measurements. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13166.	2.8	12
270	Analysis of parahydrogen polarized spin system in low magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15411-15421.	2.8	12

#	ARTICLE	IF	CITATIONS
271	Desktop NMR Spectroscopy for Quality Control of Raw Rubber. Macromolecular Symposia, 2016, 365, 191-193.	0.7	12
272	Stochastic NMR imaging. Journal of Magnetic Resonance, 1984, 60, 37-45.	0.5	11
273	In situ investigation of SBR vulcanization: A combined study of ¹ H-NMR and vulcametry. Colloid and Polymer Science, 1996, 274, 191-196.	2.1	11
274	Residual dipolar couplings of soft solids by accordion magic sandwich. Chemical Physics Letters, 2003, 375, 406-412.	2.6	11
275	Internal fluid dynamics in levitated drops by fast magnetic resonance velocimetry. Physical Review E, 2005, 72, 030201.	2.1	11
276	Investigations of silicone breast implants with the NMR-MOUSE. Magnetic Resonance Imaging, 2007, 25, 215-218.	1.8	11
277	NMR investigations of polymer dynamics in a partially filled porous matrix. European Physical Journal E, 2008, 26, 43-53.	1.6	11
278	Online Monitoring of Intelligent Polymers for Drug Release with Hyperpolarized Xenon. ChemPhysChem, 2012, 13, 4120-4123.	2.1	11
279	Gint2Dâ€“T2 correlation NMR of porous media. Journal of Magnetic Resonance, 2015, 252, 176-186.	2.1	11
280	One and two-dimensional NMR to evaluate the performance of consolidants in porous media with a wide range of pore sizes: Applications to cultural heritage. Microporous and Mesoporous Materials, 2018, 269, 186-190.	4.4	11
281	Elucidating the ionic liquid distribution in monolithic SILP hydroformylation catalysts by magnetic resonance imaging. RSC Advances, 2020, 10, 18487-18495.	3.6	11
282	Investigation of systematic noise in stochastic linear system analysis. Review of Scientific Instruments, 1986, 57, 1140-1144.	1.3	10
283	Twoâ€“dimensional MAS NMR: New prospects for the investigation of partially oriented polymers. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1987, 91, 1100-1103.	0.9	10
284	Deuteron hadamard NMR of solids and liquid crystals. Journal of Magnetic Resonance, 1991, 95, 446-451.	0.5	10
285	Selective Saturation with Low-Power Pulses. Journal of Magnetic Resonance Series A, 1993, 105, 108-112.	1.6	10
286	Hadamard NMR imaging with slice selection. Magnetic Resonance Imaging, 1996, 14, 857-861.	1.8	10
287	Proton residual dipolar couplings by NMR magnetization exchange in cross-linked elastomers: determination and imaging. Solid State Nuclear Magnetic Resonance, 1999, 14, 105-116.	2.3	10
288	Time resolved spectroscopic NMR imaging using hyperpolarized ¹²⁹ Xe. Journal of Magnetic Resonance, 2004, 167, 298-305.	2.1	10

#	ARTICLE	IF	CITATIONS
289	NMR Spectroscopy for Chemical Analysis at Low Magnetic Fields. Topics in Current Chemistry, 2011, 335, 1-22.	4.0	10
290	Time-Resolved Study of the Photo-Curing Process of Dental Resins with the NMR-MOUSE. Applied Magnetic Resonance, 2013, 44, 1027-1039.	1.2	10
291	Digital processing of images of extruded rubber profiles for process control MRI. Measurement: Journal of the International Measurement Confederation, 2016, 82, 466-475.	5.0	10
292	Virtual special issue: Magnetic resonance at low fields. Journal of Magnetic Resonance, 2017, 274, 145-147.	2.1	10
293	Improving in operando low field NMR copper electrodeposition analyses using inductively coupled coils. Electrochimica Acta, 2019, 298, 844-851.	5.2	10
294	Comparison of historical violins by non-destructive MRI depth profiling. Microchemical Journal, 2020, 158, 105219.	4.5	10
295	Composition analysis of natural gas by combined benchtop NMR spectroscopy and mechanical multivariate regression. Energy Reports, 2022, 8, 3661-3670.	5.1	10
296	Ultra-slow Molecular Motion in Polymers: 1D and 2D NMR Spectroscopy. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1989, 93, 1189-1193.	0.9	9
297	³¹ P nuclear magnetic resonance studies on alkyl phosphate emulsifiers in cosmetic oil-in-water emulsions. Journal of Surfactants and Detergents, 2001, 4, 379-384.	2.1	9
298	Site Specific Proton and Deuteron NMR Relaxation Dispersion in Selectively Deuterated Polyisoprene Melts. Macromolecular Chemistry and Physics, 2005, 206, 1292-1299.	2.2	9
299	Self-Diffusion Anisotropy of Small Penetrant Molecules in Deformed Elastomers. Macromolecules, 2005, 38, 5647-5653.	4.8	9
300	Segmental mobility in short-chain grafted-PDMS by homo- and heteronuclear residual dipolar couplings. Solid State Nuclear Magnetic Resonance, 2006, 30, 45-54.	2.3	9
301	Chain Dynamics of a Weakly Adsorbing Polymer in Thin Films. Langmuir, 2009, 25, 12208-12216.	3.5	9
302	NMR and MRI of Blood-dissolved Hyperpolarized Xe-129 in Different Hollow-Fiber Membranes. ChemPhysChem, 2011, 12, 2941-2947.	2.1	9
303	Ultrafast Microscopy of Microfluidics: Compressed Sensing and Remote Detection. Angewandte Chemie - International Edition, 2011, 50, 5258-5260.	13.8	9
304	Free volume of poly(perfluorosulfonic acid)/SiO ₂ composite proton exchange membranes by ¹²⁹ Xe NMR. Chemical Physics Letters, 2011, 506, 71-75.	2.6	9
305	Water transport in cement-in-polymer dispersions at variable temperature studied by magnetic resonance imaging. Cement and Concrete Research, 2013, 44, 55-68.	11.0	9
306	Identification of Free Radicals Generated by Different Curing Modes in a Dental Resin Cement. Applied Magnetic Resonance, 2016, 47, 1003-1014.	1.2	9

#	ARTICLE	IF	CITATIONS
307	Impact of Exposure Conditions on the Morphology of Polyethylene by Compact NMR. Macromolecular Symposia, 2018, 378, 1600156.	0.7	9
308	Evaluation of the NMR-MOUSE as a new method for continuous functional monitoring of the small intestine during different perfusion states in a porcine model. PLoS ONE, 2018, 13, e0206697.	2.5	9
309	A compact X-Band ODNP spectrometer towards hyperpolarized ¹ H spectroscopy. Journal of Magnetic Resonance, 2020, 314, 106724.	2.1	9
310	Skyline projections in two-dimensional NMR spectroscopy. Journal of Magnetic Resonance, 1982, 49, 151-154.	0.5	8
311	Practice of multidimensional stochastic nmr spectroscopy. The derivation of 1D, 2D, AND 3D spectra. Journal of Magnetic Resonance, 1983, 52, 42-56.	0.5	8
312	Magnetization exchange, zero and double quantum spectra in stochastic NMR spectroscopy. Journal of Magnetic Resonance, 1983, 54, 486-501.	0.5	8
313	NMR Imaging of Materials. Angewandte Chemie International Edition in English, 1988, 27, 1406-1407.	4.4	8
314	Conditions for generating rotating gradients in MAS NMR imaging. Journal of Magnetic Resonance, 1991, 95, 437-441.	0.5	8
315	Spatially Resolved Two-Dimensional Solid-State NMR Spectroscopy. Journal of Magnetic Resonance Series A, 1994, 107, 251-254.	1.6	8
316	Application of the Floquet theory to multiple quantum NMR of dipolar-coupled multi-spin systems under magic angle spinning. Molecular Physics, 2001, 99, 1575-1587.	1.7	8
317	Molecular mobility in fixed-bed reactors investigated by multiscale NMR techniques. Magnetic Resonance Imaging, 2003, 21, 261-268.	1.8	8
318	Hardware and Methods. , 2006, , 107-123.		8
319	An NMR investigation on the phase structure and molecular mobility of the novel exfoliated polyethylene/palygorskite nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1363-1371.	2.1	8
320	Monitoring mass transport in heterogeneously catalyzed reactions by field-gradient NMR for assessing reaction efficiency in a single pellet. Journal of Magnetic Resonance, 2011, 212, 47-54.	2.1	8
321	Morphology and molecular dynamics of hard α -keratin under pressure by ¹ H and ¹³ C solid-state NMR. Chemical Physics Letters, 2011, 509, 62-66.	2.6	8
322	Differentiation of enantiomers by 2D NMR spectroscopy at 1â€‰%T using residual dipolar couplings. Magnetic Resonance in Chemistry, 2016, 54, 527-530.	1.9	8
323	Introduction to Solid-State NMR. , 1994, , 1-62.		7
324	NMR Velocimetry of Falling Liquid Films. Journal of Magnetic Resonance, 2002, 154, 311-316.	2.1	7

#	ARTICLE	IF	CITATIONS
325	Self-Diffusion Anisotropy of Small Penetrants in Compressed Elastomers. <i>Macromolecules</i> , 2003, 36, 7155-7157.	4.8	7
326	Molecular dynamic heterogeneity of confined lipid films by ¹ H magnetization-exchange nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2005, 122, 034701.	3.0	7
327	Multiple-quantum NMR on structure, orientation, morphology and dynamics of polymers, biomolecules and ordered tissues. <i>Comptes Rendus Chimie</i> , 2006, 9, 346-356.	0.5	7
328	The Incredible Shrinking Scanner. <i>Scientific American</i> , 2008, 299, 92-98.	1.0	7
329	State of water in hybrid sulfonated poly(ether ether ketone) " silica membranes by ¹ H solid-state NMR. <i>Chemical Physics Letters</i> , 2009, 473, 142-145.	2.6	7
330	Applications in Biology and Medicine. , 2011, , 187-202.		7
331	Exchange relaxometry of flow at small Péclet numbers in a glass bead pack. <i>Journal of Magnetic Resonance</i> , 2012, 220, 32-44.	2.1	7
332	Relaxation Exchange in Nanoporous Silica by Low-Field NMR. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 1243-1258.	2.8	7
333	k and q Dedicated to Paul Callaghan. <i>Journal of Magnetic Resonance</i> , 2016, 267, 79-85.	2.1	7
334	A size-adjustable radiofrequency coil for investigating plants in a Halbach magnet. <i>Journal of Magnetic Resonance</i> , 2017, 278, 80-87.	2.1	7
335	Imaging of copper oxygenation reactions in a bubble flow. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 826-830.	1.9	7
336	Revealing how interfaces in stacked thin fibrous layers affect liquid ingress and transport properties by single-sided NMR. <i>Journal of Magnetic Resonance</i> , 2018, 294, 16-23.	2.1	7
337	Fast and robust quantification of liquid inside thin fibrous porous materials with single-sided NMR. <i>Magnetic Resonance Imaging</i> , 2019, 56, 131-137.	1.8	7
338	Analysis of three-site T2-T2 exchange NMR. <i>Journal of Magnetic Resonance</i> , 2020, 315, 106740.	2.1	7
339	Versatile high-pressure gas apparatus for benchtop NMR: Design and selected applications. <i>Journal of Magnetic Resonance</i> , 2021, 329, 107025.	2.1	7
340	Nondestructive Analysis of Wall Paintings at Ostia Antica. <i>Heritage</i> , 2021, 4, 4421-4438.	1.9	7
341	Nonlinear incoherent spectroscopy. <i>Molecular Physics</i> , 1989, 68, 225-239.	1.7	6
342	Echos in der Spektroskopie. <i>Grundlagen und Anwendungen. Chemie in Unserer Zeit</i> , 1990, 24, 13-22.	0.1	6

#	ARTICLE	IF	CITATIONS
343	Observation of a spin echo with continuous white-noise excitation. <i>Physical Review A</i> , 1991, 43, 3640-3644.	2.5	6
344	Spinning sidebands from chemical shift anisotropy in ¹³ C MAS imaging. <i>Solid State Nuclear Magnetic Resonance</i> , 1993, 2, 105-110.	2.3	6
345	Spatially resolved NMR of rigid polymers and elastomers. <i>Magnetic Resonance Imaging</i> , 1994, 12, 301-304.	1.8	6
346	Contrast in solid-state NMR imaging Part IIa: Basic filters. <i>Concepts in Magnetic Resonance</i> , 1999, 11, 71-87.	1.3	6
347	A comparison of ² H and ¹²⁹ Xe NMR as a probe of the effect of crosslinking in rubbery materials. <i>Macromolecular Materials and Engineering</i> , 2000, 282, 1-4.	3.6	6
348	Comparative study of motions in dimethylsulfone by noise excitation and solid echo spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2000, 16, 123-130.	2.3	6
349	Spectrally resolved velocity exchange spectroscopy of two-phase flow. <i>Journal of Magnetic Resonance</i> , 2002, 159, 36-45.	2.1	6
350	Two-dimensional exchange ³⁵ Cl NQR spectroscopy of hexachloroethane. <i>Journal of Molecular Structure</i> , 2005, 743, 53-57.	3.6	6
351	Charlemagne was very tall, but not robust. <i>Economics and Human Biology</i> , 2010, 8, 289-290.	1.7	6
352	Real-time polymerization monitoring in a dual-cured resin cement by magnetic resonance. <i>Polymer Bulletin</i> , 2017, 74, 5163-5179.	3.3	6
353	Automatizing the comparison of ¹ H NMR depth profiles. <i>Strain</i> , 2018, 54, e12254.	2.4	6
354	Effect of nitroxide spin probes on the transport properties of Nafion membranes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26660-26674.	2.8	6
355	Synthesis of ¹⁹ F- and ¹³ C-unsaturated esters monitored by 1D and 2D benchtop NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 852-860.	1.9	6
356	NMR imaging with incommensurate sampling and gradient undulation rates. <i>Journal of Magnetic Resonance</i> , 1986, 66, 66-73.	0.5	5
357	Reduction of Systematic Noise in Stochastic-Excitation NMR by Oversampling. <i>Journal of Magnetic Resonance Series A</i> , 1993, 102, 332-343.	1.6	5
358	NMR Imaging of Objects Containing Similar Substructures. <i>Journal of Magnetic Resonance Series A</i> , 1993, 103, 142-150.	1.6	5
359	NMR Imaging of Solids. , 1994, , 209-277.		5
360	NMR Imaging and materials research. <i>Macromolecular Symposia</i> , 1994, 87, 187-193.	0.7	5

#	ARTICLE	IF	CITATIONS
361	NMR Imaging and Spatial Information. Studies in Physical and Theoretical Chemistry, 1998, 84, 123-163.	0.0	5
362	Contrast in solid-state NMR imaging Part IIb: Advanced filters, spectroscopic parameters, and sample manipulation. Concepts in Magnetic Resonance, 1999, 11, 147-164.	1.3	5
363	Single-point imaging of vulcanized boundary in rubber. Applied Magnetic Resonance, 2000, 18, 177-185.	1.2	5
364	Multi-gradient pulse investigations of fluid transport in porous media. Magnetic Resonance Imaging, 2001, 19, 385-389.	1.8	5
365	Dipolar and J Encoded DQ MAS Spectra under Rotational Resonance. Journal of Magnetic Resonance, 2001, 150, 184-193.	2.1	5
366	OPTIMIZATION OF THE DANTE PULSE SEQUENCE FOR SELECTIVE NMR EXCITATION IN STRONGLY INHOMOGENEOUS MAGNETIC FIELDS. International Journal of Modern Physics B, 2004, 18, 1571-1579.	2.0	5
367	Surface induced molecular dynamics of thin lipid films confined to submicron cavities: A ¹ H multiple-quantum NMR study. Chemical Physics Letters, 2005, 404, 177-181.	2.6	5
368	Segmental dynamic heterogeneity of short-chain grafted-poly(dimethylsiloxane) by ¹ H spin-diffusion NMR. Chemical Physics Letters, 2006, 431, 404-409.	2.6	5
369	Morphology and Motional Heterogeneity in PS/PMMA Diblock Copolymers Studied by ¹ H and ¹³ C Solid-State NMR Spectroscopy. Macromolecular Chemistry and Physics, 2008, 209, 1576-1585.	2.2	5
370	Shaping the Sensitive Volume of a Single-Sided NMR-Sensor to Profile Cylindrical Samples with High Resolution. Applied Magnetic Resonance, 2013, 44, 1325-1334.	1.2	5
371	Nondestructive investigation of the internal structure of fresco paintings. , 2013, , .		5
372	Imaging of root zone processes using MRI T ₁ mapping. Microporous and Mesoporous Materials, 2018, 269, 43-46.	4.4	5
373	Online monitoring of the kinetic isotope effect in chemical reactions with ¹ H and ¹⁹ F low-field NMR spectroscopy. Analyst, The, 2018, 143, 4408-4421.	3.5	5
374	Magnetic Resonance Imaging of Water Content and Flow Processes in Natural Soils by Pulse Sequences with Ultrashort Detection. Molecules, 2021, 26, 5130.	3.8	5
375	Spektroskopie amorpher und kristalliner Festkörper. , 1995, , .		5
376	Fast digital two-channel pulse generator for controlling time-resolved experiments. Journal of Physics E: Scientific Instruments, 1978, 11, 921-924.	0.7	4
377	Two-Dimensional Solid State NMR Studies of Ultraslow Molecular Reorientation in Solid Polymers. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 187, 223-230.	0.3	4
378	Deuteron rotational-echo spectra. Journal of Magnetic Resonance, 1992, 96, 393-397.	0.5	4

#	ARTICLE	IF	CITATIONS
379	Stochastic spectroscopic imaging. <i>Journal of Magnetic Resonance</i> , 1992, 99, 525-532.	0.5	4
380	Wideline ² H -NMR Spectroscopy and Imaging of Solids. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1994, 49, 19-26.	1.5	4
381	NMR-Bildgebung und Materialforschung. <i>Chemie in Unserer Zeit</i> , 1998, 32, 73-82.	0.1	4
382	The interface between covulcanized rubber sheets by NMR imaging, scanning FTIR spectroscopy, and mechanical indentation mapping. <i>Macromolecular Materials and Engineering</i> , 2000, 274, 13-19.	3.6	4
383	Two-dimensional Exchange ³⁵ Cl NQR Spectroscopy of Chloral Hydrate. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2002, 57, 53-57.	1.5	4
384	Resolving chemical shift spectra with a low-field NMR relaxometer. <i>Chemical Physics Letters</i> , 2004, 397, 306-308.	2.6	4
385	Low-power MRI by Frank-sequence excitation. <i>Journal of Magnetic Resonance</i> , 2011, 211, 143-148.	2.1	4
386	A "Special Perspectives" issue: Frontiers on in vivo and materials magnetic resonance imaging. <i>Journal of Magnetic Resonance</i> , 2013, 229, 1.	2.1	4
387	Molecular dynamics parameter maps by ¹ H Hahn echo and mixed-echo phase-encoding MRI. <i>Journal of Magnetic Resonance</i> , 2013, 227, 1-8.	2.1	4
388	Mobile and Compact NMR. , 2016, , 1-32.		4
389	NMR mit Tischgeräten und deren Anwendungen von der Materialwissenschaft bis zur organischen Chemie. <i>Angewandte Chemie</i> , 2018, 130, 7114-7129.	2.0	4
390	Nondestructive Testing of Objects from Cultural Heritage with NMR. , 2018, , 293-304.		4
391	An H-shaped low-field magnet for NMR spectroscopy designed using the finite element method. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 60, S3-S14.	0.6	4
392	Title is missing!. , 0, , .		4
393	Application of the NMR-technique to concrete-coatings. , 2008, , 335-336.		4
394	Magnetische Kernresonanz mit Rauschanregung. <i>Nachrichten Aus Der Chemie</i> , 1981, 29, 291-294.	0.0	3
395	Stochastic NMR on a commercial spectrometer. <i>Journal of Magnetic Resonance</i> , 1984, 58, 149-151.	0.5	3
396	High Resolution Solid State NMR of Quadrupolar Nuclei. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 1429-1430.	4.4	3

#	ARTICLE	IF	CITATIONS
397	Spatially resolved 2D spectroscopy with stochastic RF excitation. Journal of Magnetic Resonance, 1990, 90, 535-543.	0.5	3
398	Soft-Matter Relaxation by the NMR-MOUSE. , 0, , 195-209.		3
399	Hole-burning NMR in strongly inhomogeneous fields. Solid State Nuclear Magnetic Resonance, 2007, 32, 66-70.	2.3	3
400	Moving NMR. , 2008, , .		3
401	Real-time Detection of Polymerization Reactions with Hyperpolarized Xenon at Low Magnetic Fields. , 2011, , .		3
402	Unilaterale NMR zur Untersuchung von Kunst und Kulturgut. Angewandte Chemie, 2018, 130, 7426-7434.	2.0	3
403	Noninvasive Quantification of Cell Density in Three-Dimensional Gels by MRI. IEEE Transactions on Biomedical Engineering, 2019, 66, 821-830.	4.2	3
404	Single-shot velocity mapping by rewinding of velocity encoding with Echo-Planar Imaging. Journal of Magnetic Resonance, 2019, 307, 106570.	2.1	3
405	Applications of magnetic resonance imaging in chemical engineering. Physical Sciences Reviews, 2019, 4, .	0.8	3
406	Perfusion-related changes in intestinal diffusion detected by NMR-MOUSE [®] monitoring in minipigs. Microvascular Research, 2019, 125, 103876.	2.5	3
407	Nondestructive Testing of Objects from Cultural Heritage with NMR. , 2018, , 1-13.		3
408	Analysis of Aging Products from Biofuels in Long-Term Storage. ACS Omega, 2022, 7, 26256-26264.	3.5	3
409	Fabrication of masks for evaporated interdigital electrodes. Journal of Physics E: Scientific Instruments, 1978, 11, 114-115.	0.7	2
410	Electro-optic shutters with PLZT ceramics for infrared applications. Journal of Physics E: Scientific Instruments, 1979, 12, 770-774.	0.7	2
411	Standardization of results of NMR relaxation experiments in rubber investigation. Applied Magnetic Resonance, 2005, 29, 515-521.	1.2	2
412	Porous Materials. , 2006, , 263-284.		2
413	Magnetic field simulations in support of interdiffusion quantification with NMR. Chemical Engineering Science, 2008, 63, 4694-4703.	3.8	2
414	Morphology of Novel PEAs Containing Two Consecutive Amide Bonds Randomly Distributed Along the Polyester Backbone. Macromolecular Chemistry and Physics, 2010, 211, 471-480.	2.2	2

#	ARTICLE	IF	CITATIONS
415	Studies of ⁶ Li-NMR properties in different salt solutions in low magnetic fields. Journal of Magnetic Resonance, 2012, 214, 10-14.	2.1	2
416	Sodium NMR Relaxation: A Versatile Non-invasive Tool for the Monitoring of Phase Transitions and the Estimation of Effective Pore Sizes of Supramolecular Hydrogels. , 2013, , 45-51.		2
417	Aging of polymeric materials by stray ¹ H-NMR relaxometry with the ¹ H-NMR-MOUSE. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2018, 47A, .	0.5	2
418	Selective magnetic resonance signal suppression by colored Frank excitation. Journal of Magnetic Resonance, 2020, 317, 106776.	2.1	2
419	Mobile and Compact NMR. , 2018, , 927-958.		2
420	Concepts and Applications of the NMR-MOUSE. , 2018, , 61-75.		2
421	The representation of zero and double quantum spectra. Journal of Magnetic Resonance, 1984, 60, 122-124.	0.5	1
422	Numerical investigation of exchange in stochastic NMR. Journal of Magnetic Resonance, 1985, 61, 349-355.	0.5	1
423	High resolution solid state NMR of quadrupolar nuclei. Advanced Materials, 1989, 1, 343-344.	21.0	1
424	Chapter 22 Stochastic spectroscopic imaging. Data Handling in Science and Technology, 1996, 18, 489-512.	3.1	1
425	Two-Dimensional NQR Spectroscopy for the Characterization of Crystalline Powders. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1997, 52, 343-347.	1.5	1
426	The NMR Endoscope. , 0, , 695-702.		1
427	NMR in der Prozesskontrolle: Bildgebende und unilaterale NMR in weicher Materie (NMR for Process) Tj ETQq1 1 0.784314 rgBT /Over 0,7 1		1
428	Nuclear magnetic resonance imaging beyond medical tomography. Applied Magnetic Resonance, 2002, 22, 137.	1.2	1
429	Synergie phenomena of multistress aged XLPE-cable insulation investigated by the evaluation of depolarisation current measurements and nuclear magnetic resonance. , 0, , .		1
430	Selective saturation in strongly inhomogeneous magnetic fields. Applied Magnetic Resonance, 2005, 29, 655-667.	1.2	1
431	Advances in Single-Sided NMR. , 2008, , 1523-1527.		1
432	Diagnostics of porous structure and assessment of catalytic activity of natural zeolite in styrene polymerization reaction. Petroleum Chemistry, 2006, 46, 182-190.	1.4	1

#	ARTICLE	IF	CITATIONS
433	Mobile NMR scanners for nondestructive measurements of porosity of drill cores. Magnetic Resonance Imaging, 2007, 25, 547.	1.8	1
434	Chaotic Flow Dynamics Investigated by 3D MRI and CFD Analysis. Chemie-Ingenieur-Technik, 2016, 88, 1280-1280.	0.8	1
435	Visualizing the detection area of a unilateral NMR sensor using deconvolution and back-projection. Journal of Magnetic Resonance, 2018, 296, 169-175.	2.1	1
436	Base-assisted stereoselective H/D-exchange in the backbone of a Pd(PNP)2Cl2 complex. Inorganic Chemistry Communication, 2018, 95, 47-49.	3.9	1
437	Permeability Prediction for Low Porosity Rocks by Mobile NMR. , 2009, , 1125-1163.		1
438	NMR-Spektroskopie. , 1995, , 3-28.		1
439	Anisotropy of Transverse 1H Magnetization Relaxation in Strained Elastomers by the NMR-Mouse®. , 2002, , 525-530.		1
440	Triangular zero-setting in 2D spectroscopy. Journal of Magnetic Resonance, 1990, 86, 618-621.	0.5	0
441	Physikalische Chemie 1997. Nachrichten Aus Der Chemie, 1998, 46, 204-220.	0.0	0
442	2-Dimensional second-order interferometry for longitudinal magnetic resonance. Molecular Physics, 1998, 95, 1083-1089.	1.7	0
443	Two- and three-dimensional waves in falling film flow in the nonlaminar flow regime: an NMR study. Applied Magnetic Resonance, 2002, 22, 223.	1.2	0
444	NMR for Process Control. Imaging and Localized NMR in Soft Matter. ChemInform, 2003, 34, no.	0.0	0
445	Mobile NMR. , 2008, , 373-382.		0
446	Velocity Imaging of Granular Materials. , 2008, , 1581-1587.		0
447	Correlating Molecular and Macroscopic Properties of Elastomers by NMR Relaxometry and Multi-pulse NMR Techniques. , 2008, , 1455-1461.		0
448	Nondestructive Testing of Adhesive Curing in Glass-Metal Compounds by Unilateral NMR. , 2006, , 435-443.		0
449	Micro Structured Planar Gradient Coils for Low Field Magnetic Resonance Imaging. , 2007, , .		0
450	Microscopic and Macroscopic Properties Correlations of Polymer Networks Measured In Low Field NMR. AIP Conference Proceedings, 2007, , .	0.4	0

#	ARTICLE	IF	CITATIONS
451	NMR mobil: Wie altert Polyethylen?. Nachrichten Aus Der Chemie, 2007, 55, 158-160.	0.0	0
452	Investigation of the Heterogeneous Catalytic Decomposition of H ₂ O ₂ . , 2008, , .		0
453	Hadamard NMR-Bildgebung mit Schichtselektion. Biomedizinische Technik, 2009, , 167-168.	0.8	0
454	Mapping Cell Viability Quantitatively and Independently From Cell Density in 3D Gels Noninvasively. IEEE Transactions on Biomedical Engineering, 2021, 68, 2940-2947.	4.2	0
455	Analysis of Slow Motion by Multidimensional NMR. , 2002, , 3-14.		0
456	Spatio-Temporal Correlations in Gravity-Driven and Pressure-Driven Fluid Transport Processes. , 2002, , 423-432.		0
457	Catching a Falling Drop by NMR: Correlation of Position and Velocity. , 2002, , 327-336.		0
458	Objektive Evaluierung von Narben und Hautgewebe unter Anwendung der neuen NMR- Mouse [®] Technologie. Langenbecks Archiv Für Chirurgie Supplement, 2008, , 277-279.	0.0	0
459	Visualization of Hydrogel Shrinkage Due to Ion Replacement by ²⁷ Al and ²³ Na Magnetic Resonance Imaging. , 2013, , 35-43.		0
460	CHAPTER 11. Outlook: Quo Vadis, NMR?. New Developments in NMR, 2015, , 310-330.	0.1	0
461	Transport Properties in Small-Scale Reaction Units. , 0, , 245-267.		0