

Bernhard Bluemich

List of Publications by Year in descending order

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461
papers

13,075
citations

34493

54
h-index

60403

85
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503
all docs

503
docs citations

503
times ranked

6693
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition analysis of natural gas by combined benchtop NMR spectroscopy and mechanical multivariate regression. <i>Energy Reports</i> , 2022, 8, 3661-3670.	2.5	10
2	Analysis of Aging Products from Biofuels in Long-Term Storage. <i>ACS Omega</i> , 2022, 7, 26256-26264.	1.6	3
3	When the MOUSE leaves the house. <i>Magnetic Resonance</i> , 2021, 2, 149-160.	0.8	17
4	Magnetic Resonance Imaging of Water Content and Flow Processes in Natural Soils by Pulse Sequences with Ultrashort Detection. <i>Molecules</i> , 2021, 26, 5130.	1.7	5
5	Versatile high-pressure gas apparatus for benchtop NMR: Design and selected applications. <i>Journal of Magnetic Resonance</i> , 2021, 329, 107025.	1.2	7
6	Mapping Cell Viability Quantitatively and Independently From Cell Density in 3D Gels Noninvasively. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2940-2947.	2.5	0
7	Nondestructive Analysis of Wall Paintings at Ostia Antica. <i>Heritage</i> , 2021, 4, 4421-4438.	0.9	7
8	Comparison of historical violins by non-destructive MRI depth profiling. <i>Microchemical Journal</i> , 2020, 158, 105219.	2.3	10
9	A compact X-Band ODNP spectrometer towards hyperpolarized ¹ H spectroscopy. <i>Journal of Magnetic Resonance</i> , 2020, 314, 106724.	1.2	9
10	Analysis of three-site T2-T2 exchange NMR. <i>Journal of Magnetic Resonance</i> , 2020, 315, 106740.	1.2	7
11	Elucidating the ionic liquid distribution in monolithic SILP hydroformylation catalysts by magnetic resonance imaging. <i>RSC Advances</i> , 2020, 10, 18487-18495.	1.7	11
12	SABRE polarized low field rare-spin spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 152, 184202.	1.2	15
13	NMR relaxometry of oil paint binders. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 830-839.	1.1	18
14	Selective magnetic resonance signal suppression by colored Frank excitation. <i>Journal of Magnetic Resonance</i> , 2020, 317, 106776.	1.2	2
15	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.	2.3	26
16	Noninvasive Quantification of Cell Density in Three-Dimensional Gels by MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 821-830.	2.5	3
17	Single-shot velocity mapping by rewinding of velocity encoding with Echo-Planar Imaging. <i>Journal of Magnetic Resonance</i> , 2019, 307, 106570.	1.2	3
18	Low-field and benchtop NMR. <i>Journal of Magnetic Resonance</i> , 2019, 306, 27-35.	1.2	86

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19	Applications of magnetic resonance imaging in chemical engineering. <i>Physical Sciences Reviews</i> , 2019, 4, .	0.8	3
20	Sustainable Electrocoupling of the Biogenic Valeric Acid under in Situ Low-Field Nuclear Magnetic Resonance Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18288-18296.	3.2	14
21	Synthesis of ^{19}F -fluoro ^{13}C -unsaturated esters monitored by 1D and 2D benchtop NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 852-860.	1.1	6
22	Electrochemical NMR spectroscopy: Electrode construction and magnetic sample stirring. <i>Microchemical Journal</i> , 2019, 146, 658-663.	2.3	20
23	Monitoring the mechanism and kinetics of a transesterification reaction for the biodiesel production with low field ^1H NMR spectroscopy. <i>Fuel</i> , 2019, 243, 192-201.	3.4	28
24	From LASER physics to the para-hydrogen pumped RASER. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 114-115, 1-32.	3.9	30
25	Perfusion-related changes in intestinal diffusion detected by NMR-MOUSE [®] monitoring in minipigs. <i>Microvascular Research</i> , 2019, 125, 103876.	1.1	3
26	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.	0.3	4
27	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.	1.4	28
28	Essential NMR. , 2019, , .		13
29	Fast and robust quantification of liquid inside thin fibrous porous materials with single-sided NMR. <i>Magnetic Resonance Imaging</i> , 2019, 56, 131-137.	1.0	7
30	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.	1.3	30
31	Improving in operando low field NMR copper electrodeposition analyses using inductively coupled coils. <i>Electrochimica Acta</i> , 2019, 298, 844-851.	2.6	10
32	Variable magnet arrays to passively shim compact permanent-yoke magnets. <i>Journal of Magnetic Resonance</i> , 2019, 298, 77-84.	1.2	18
33	NMR on the Road: Non-destructive Characterization of the Crumb-Rubber Fraction in Asphalt. <i>Applied Magnetic Resonance</i> , 2019, 50, 497-509.	0.6	13
34	3D MRI velocimetry of non-transparent 3D-printed staggered herringbone mixers. <i>Chemical Engineering Journal</i> , 2018, 343, 54-60.	6.6	24
35	Impact of Exposure Conditions on the Morphology of Polyethylene by Compact NMR. <i>Macromolecular Symposia</i> , 2018, 378, 1600156.	0.4	9
36	Unilaterale NMR zur Untersuchung von Kunst und Kulturgut. <i>Angewandte Chemie</i> , 2018, 130, 7426-7434.	1.6	3

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37	Cultural Heritage Studies with Mobile NMR. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7304-7312.	7.2	58
38	Continuous hyperpolarization with parahydrogen in a membrane reactor. <i>Journal of Magnetic Resonance</i> , 2018, 291, 8-13.	1.2	39
39	NMR mit Tischgeräten und deren Anwendungen von der Materialwissenschaft bis zur organischen Chemie. <i>Angewandte Chemie</i> , 2018, 130, 7114-7129.	1.6	4
40	Impact of Ionic Liquids on the Structure and Dynamics of Collagen. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1060-1065.	1.2	20
41	Unexpected Diffusion Anisotropy of Carbon Dioxide in the Metal-Organic Framework Zn ₂ (dobpdc). <i>Journal of the American Chemical Society</i> , 2018, 140, 1663-1673.	6.6	64
42	Continuum-Scale Modeling of Liquid Redistribution in a Stack of Thin Hydrophilic Fibrous Layers. <i>Transport in Porous Media</i> , 2018, 122, 203-219.	1.2	16
43	Compact low-field NMR spectroscopy and chemometrics: A tool box for quality control of raw rubber. <i>Polymer</i> , 2018, 141, 154-165.	1.8	26
44	Beyond compact NMR. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 3-6.	2.2	18
45	Automatizing the comparison of NMR depth profiles. <i>Strain</i> , 2018, 54, e12254.	1.4	6
46	Desktop NMR and Its Applications From Materials Science To Organic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6996-7010.	7.2	89
47	Imaging of root zone processes using MRI T1 mapping. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 43-46.	2.2	5
48	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. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 186-190.	2.2	11
49	Aging of polymeric materials by stray-field NMR relaxometry with the NMR-MOUSE. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2018, 47A, .	0.2	2
50	Effect of nitroxide spin probes on the transport properties of Nafion membranes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26660-26674.	1.3	6
51	Visualizing the detection area of a unilateral NMR sensor using deconvolution and back-projection. <i>Journal of Magnetic Resonance</i> , 2018, 296, 169-175.	1.2	1
52	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. <i>PLoS ONE</i> , 2018, 13, e0206697.	1.1	9
53	Imaging of copper oxygenation reactions in a bubble flow. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 826-830.	1.1	7
54	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.	1.2	7

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55	Nondestructive Testing of Objects from Cultural Heritage with NMR. , 2018, , 293-304.		4
56	Base-assisted stereoselective H/D-exchange in the backbone of a Pd(PNP)2Cl2 complex. Inorganic Chemistry Communication, 2018, 95, 47-49.	1.8	1
57	Online monitoring of the kinetic isotope effect in chemical reactions with 1H and 19F low-field NMR spectroscopy. Analyst, The, 2018, 143, 4408-4421.	1.7	5
58	Nondestructive Testing of Objects from Cultural Heritage with NMR. , 2018, , 1-13.		3
59	Mobile and Compact NMR. , 2018, , 927-958.		2
60	Concepts and Applications of the NMR-MOUSE. , 2018, , 61-75.		2
61	Real-time polymerization monitoring in a dual-cured resin cement by magnetic resonance. Polymer Bulletin, 2017, 74, 5163-5179.	1.7	6
62	Mobile compact 1H NMR spectrometer promises fast quality control of diesel fuel. Fuel, 2017, 203, 171-178.	3.4	24
63	Direct Hyperpolarization of Nitrogen-15 in Aqueous Media with Parahydrogen in Reversible Exchange. Journal of the American Chemical Society, 2017, 139, 7761-7767.	6.6	80
64	Para-hydrogen raser delivers sub-millihertz resolution in nuclear magnetic resonance. Nature Physics, 2017, 13, 568-572.	6.5	70
65	Desktop NMR for structure elucidation and identification of strychnine adulteration. Analyst, The, 2017, 142, 1459-1470.	1.7	23
66	A size-adjustable radiofrequency coil for investigating plants in a Halbach magnet. Journal of Magnetic Resonance, 2017, 278, 80-87.	1.2	7
67	Desktop NMR spectroscopy for real-time monitoring of an acetalization reaction in comparison with gas chromatography and NMR at 9.4ÅT. Analytical and Bioanalytical Chemistry, 2017, 409, 7223-7234.	1.9	18
68	Polarization transfer efficiency in PHIP experiments. Physical Chemistry Chemical Physics, 2017, 19, 21933-21937.	1.3	15
69	Hyperpolarizing Water with Parahydrogen. ChemPhysChem, 2017, 18, 2426-2429.	1.0	31
70	Virtual special issue: Magnetic resonance at low fields. Journal of Magnetic Resonance, 2017, 274, 145-147.	1.2	10
71	A New Irâ€NHC Catalyst for Signal Amplification by Reversible Exchange in D₂O. Chemistry - A European Journal, 2016, 22, 9277-9282.	1.7	78
72	Mobile and Compact NMR. , 2016, , 1-32.		4

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73	k and q Dedicated to Paul Callaghan. Journal of Magnetic Resonance, 2016, 267, 79-85.	1.2	7
74	Direct correlation of internal gradients and pore size distributions with low field NMR. Journal of Magnetic Resonance, 2016, 267, 37-42.	1.2	22
75	Compact low-field NMR: Unmasking morphological changes from solvent-induced crystallization in polyethylene. European Polymer Journal, 2016, 80, 48-57.	2.6	17
76	Identification of Free Radicals Generated by Different Curing Modes in a Dental Resin Cement. Applied Magnetic Resonance, 2016, 47, 1003-1014.	0.6	9
77	Desktop NMR Spectroscopy for Quality Control of Raw Rubber. Macromolecular Symposia, 2016, 365, 191-193.	0.4	12
78	Compact NMR Spectroscopy with Shift Reagents. Applied Magnetic Resonance, 2016, 47, 1135-1146.	0.6	14
79	Dynamics of Polyether Polyols and Polyether Carbonate Polyols. Macromolecules, 2016, 49, 8995-9003.	2.2	34
80	Unilateral NMR and thermal microscopy studies of vegetable tanned leather exposed to dehydrothermal treatment and light irradiation. Microchemical Journal, 2016, 129, 158-165.	2.3	27
81	Chaotic Flow Dynamics Investigated by 3D MRI and CFD Analysis. Chemie-Ingenieur-Technik, 2016, 88, 1280-1280.	0.4	1
82	Digital processing of images of extruded rubber profiles for process control MRI. Measurement: Journal of the International Measurement Confederation, 2016, 82, 466-475.	2.5	10
83	Shimming Halbach magnets utilizing genetic algorithms to profit from material imperfections. Journal of Magnetic Resonance, 2016, 265, 83-89.	1.2	32
84	Introduction to compact NMR: A review of methods. TrAC - Trends in Analytical Chemistry, 2016, 83, 2-11.	5.8	109
85	NMR spectroscopy with compact instruments. TrAC - Trends in Analytical Chemistry, 2016, 83, 12-26.	5.8	74
86	Preparation of Grignard reagents from magnesium metal under continuous flow conditions and on-line monitoring by NMR spectroscopy. Tetrahedron Letters, 2016, 57, 122-125.	0.7	47
87	Differentiation of enantiomers by 2D NMR spectroscopy at 1â€°T using residual dipolar couplings. Magnetic Resonance in Chemistry, 2016, 54, 527-530.	1.1	8
88	Online monitoring of fermentation processes via nonâ€invasive lowâ€field NMR. Biotechnology and Bioengineering, 2015, 112, 1810-1821.	1.7	51
89	Characterization of aging and solvent treatments of painted surfaces using singleâ€sided NMR. Magnetic Resonance in Chemistry, 2015, 53, 58-63.	1.1	41
90	Aging and Degradation of LDPE by Compact NMR. Macromolecular Materials and Engineering, 2015, 300, 1063-1070.	1.7	18

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91	Miniaturized multi-coil arrays for functional planar imaging with a single-sided NMR sensor. Journal of Magnetic Resonance, 2015, 254, 10-18.	1.2	21
92	Gint2Dâ€T2 correlation NMR of porous media. Journal of Magnetic Resonance, 2015, 252, 176-186.	1.2	11
93	External high-quality-factor resonator tunes up nuclear magnetic resonance. Nature Physics, 2015, 11, 767-771.	6.5	48
94	A Miniaturized NMR-MOUSE with a High Magnetic Field Gradient (Mini-MOUSE). Applied Magnetic Resonance, 2015, 46, 181-202.	0.6	15
95	Desktop MRI as a promising tool for mapping intra-aneurismal flow. Magnetic Resonance Imaging, 2015, 33, 328-335.	1.0	19
96	Moisture dynamics in wall paintings monitored by singleâ€sided NMR. Magnetic Resonance in Chemistry, 2015, 53, 48-57.	1.1	22
97	Compact NMR spectroscopy for real-time monitoring of a biodiesel production. Fuel, 2015, 139, 240-247.	3.4	57
98	CHAPTER 11. Outlook: Quo Vadis, NMR?. New Developments in NMR, 2015, , 310-330.	0.1	0
99	Spatially resolved Dâ€T2 correlation NMR of porous media. Journal of Magnetic Resonance, 2014, 242, 41-48.	1.2	34
100	Investigation of Historical Hard Rubber Ornaments of Charles Goodyear. Macromolecular Chemistry and Physics, 2014, 215, 245-254.	1.1	13
101	Miniaturization of NMR Systems: Desktop Spectrometers, Microcoil Spectroscopy, and â€NMR on a Chipâ€for Chemistry, Biochemistry, and Industry. Chemical Reviews, 2014, 114, 5641-5694.	23.0	195
102	Onâ€Line Monitoring of Chemical Reactions by using Benchâ€Top Nuclear Magnetic Resonance Spectroscopy. ChemPhysChem, 2014, 15, 3060-3066.	1.0	63
103	Analysis of parahydrogen polarized spin system in low magnetic fields. Physical Chemistry Chemical Physics, 2014, 16, 15411-15421.	1.3	12
104	Stacked planar micro coils for single-sided NMR applications. Journal of Magnetic Resonance, 2013, 230, 176-185.	1.2	39
105	A â€Special Perspectivesâ€issue: Frontiers on in vivo and materials magnetic resonance imaging. Journal of Magnetic Resonance, 2013, 229, 1.	1.2	4
106	Singleâ€sided <sc>NMR</sc> of Semicrystalline Polymers. Macromolecular Symposia, 2013, 327, 29-38.	0.4	16
107	Shaping the Sensitive Volume of a Single-Sided NMR-Sensor to Profile Cylindrical Samples with High Resolution. Applied Magnetic Resonance, 2013, 44, 1325-1334.	0.6	5
108	1H-NMR measurements of proton mobility in nano-crystalline YSZ. Physical Chemistry Chemical Physics, 2013, 15, 19825.	1.3	16

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109	Ligand effects of NHC-iridium catalysts for signal amplification by reversible exchange (SABRE). Chemical Communications, 2013, 49, 7388.	2.2	87
110	Single-sided magnetic resonance profiling in biological and materials science. Journal of Magnetic Resonance, 2013, 229, 142-154.	1.2	52
111	Mobile Low-Field ¹ H NMR Spectroscopy Desktop Analysis of Biodiesel Production. Applied Magnetic Resonance, 2013, 44, 41-53.	0.6	37
112	Water transport in cement-in-polymer dispersions at variable temperature studied by magnetic resonance imaging. Cement and Concrete Research, 2013, 44, 55-68.	4.6	9
113	Fundamental Aspects of Parahydrogen Enhanced Low-Field Nuclear Magnetic Resonance. Physical Review Letters, 2013, 110, 137602.	2.9	32
114	Optimized slim-line logging NMR tool to measure soil moisture in situ. Journal of Magnetic Resonance, 2013, 233, 74-79.	1.2	47
115	Highly Stable and Finely Tuned Magnetic Fields Generated by Permanent Magnet Assemblies. Physical Review Letters, 2013, 110, 180801.	2.9	44
116	Molecular dynamics parameter maps by ¹ H Hahn echo and mixed-echo phase-encoding MRI. Journal of Magnetic Resonance, 2013, 227, 1-8.	1.2	4
117	Time-Resolved Study of the Photo-Curing Process of Dental Resins with the NMR-MOUSE. Applied Magnetic Resonance, 2013, 44, 1027-1039.	0.6	10
118	The roles of hydration and evaporation during the drying of a cement paste by localized NMR. Cement and Concrete Research, 2013, 48, 86-96.	4.6	22
119	Nondestructive investigation of the internal structure of fresco paintings. , 2013, , .		5
120	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
121	Visualization of Hydrogel Shrinkage Due to Ion Replacement by ²⁷ Al and ²³ Na Magnetic Resonance Imaging. , 2013, , 35-43.		0
122	Online Monitoring of Intelligent Polymers for Drug Release with Hyperpolarized Xenon. ChemPhysChem, 2012, 13, 4120-4123.	1.0	11
123	Exchange relaxometry of flow at small Péclet numbers in a glass bead pack. Journal of Magnetic Resonance, 2012, 220, 32-44.	1.2	7
124	Relaxation Exchange in Nanoporous Silica by Low-Field NMR. Zeitschrift Fur Physikalische Chemie, 2012, 226, 1243-1258.	1.4	7
125	Estimation of Self-Diffusion Coefficients of Small Penetrants in Semicrystalline Polymers Using Single-Sided NMR. Macromolecular Rapid Communications, 2012, 33, 943-947.	2.0	24
126	Studies of ⁶ Li-NMR properties in different salt solutions in low magnetic fields. Journal of Magnetic Resonance, 2012, 214, 10-14.	1.2	2

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127	Low-gradient single-sided NMR sensor for one-shot profiling of human skin. <i>Journal of Magnetic Resonance</i> , 2012, 215, 74-84.	1.2	82
128	AFM nanoindentation to determine Young's modulus for different EPDM elastomers. <i>Polymer Testing</i> , 2012, 31, 425-432.	2.3	62
129	An Efficacious Target-Field Approach to Design Shim Coils for Halbach Magnet of Mobile NMR Sensors. <i>Applied Magnetic Resonance</i> , 2012, 42, 101-112.	0.6	14
130	Selective drug trace detection with low-field NMR. <i>Analyst</i> , The, 2011, 136, 1566.	1.7	48
131	Fouling Behavior of Microstructured Hollow Fiber Membranes in Dead-End Filtrations: Critical Flux Determination and NMR Imaging of Particle Deposition. <i>Langmuir</i> , 2011, 27, 1643-1652.	1.6	60
132	Para-hydrogen induced polarization of amino acids, peptides and deuterium-hydrogen gas. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13759.	1.3	108
133	NMR Spectroscopy for Chemical Analysis at Low Magnetic Fields. <i>Topics in Current Chemistry</i> , 2011, 335, 1-22.	4.0	10
134	Small-scale instrumentation for nuclear magnetic resonance of porous media. <i>New Journal of Physics</i> , 2011, 13, 015003.	1.2	36
135	Near-Zero-Field Nuclear Magnetic Resonance. <i>Physical Review Letters</i> , 2011, 107, 107601.	2.9	92
136	High-resolution NMR spectroscopy under the fume hood. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13172.	1.3	59
137	Low-field NMR logging sensor for measuring hydraulic parameters of model soils. <i>Journal of Hydrology</i> , 2011, 406, 30-38.	2.3	39
138	Low-power MRI by Frank-sequence excitation. <i>Journal of Magnetic Resonance</i> , 2011, 211, 143-148.	1.2	4
139	Monitoring mass transport in heterogeneously catalyzed reactions by field-gradient NMR for assessing reaction efficiency in a single pellet. <i>Journal of Magnetic Resonance</i> , 2011, 212, 47-54.	1.2	8
140	Single-Sided NMR. , 2011, , 1-10.		15
141	Applications in Biology and Medicine. , 2011, , 187-202.		7
142	Real-time Detection of Polymerization Reactions with Hyperpolarized Xenon at Low Magnetic Fields. , 2011, , .		3
143	Ancient Roman wall paintings mapped nondestructively by portable NMR. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1441-1452.	1.9	33
144	NMR and MRI of Blood-Dissolved Hyperpolarized Xe-129 in Different Hollow-Fiber Membranes. <i>ChemPhysChem</i> , 2011, 12, 2941-2947.	1.0	9

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145	Ultrafast Microscopy of Microfluidics: Compressed Sensing and Remote Detection. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5258-5260.	7.2	9
146	Organometallic Complexes in Supported Ionic-Liquid Phase (SILP) Catalysts: A PHIP NMR Spectroscopy Study. <i>Chemistry - A European Journal</i> , 2011, 17, 13795-13799.	1.7	32
147	Free volume of poly(perfluorosulfonic acid)/SiO ₂ composite proton exchange membranes by ¹²⁹ Xe NMR. <i>Chemical Physics Letters</i> , 2011, 506, 71-75.	1.2	9
148	Morphology and molecular dynamics of hard keratin under pressure by ¹ H and ¹³ C solid-state NMR. <i>Chemical Physics Letters</i> , 2011, 509, 62-66.	1.2	8
149	The heterogeneity of segmental dynamics of filled EPDM by ¹ H transverse relaxation NMR. <i>Journal of Magnetic Resonance</i> , 2011, 208, 156-162.	1.2	20
150	Micrometer scale resolution of materials by stray-field Magnetic Resonance Imaging. <i>Journal of Magnetic Resonance</i> , 2011, 211, 60-66.	1.2	13
151	NMR imaging of local cumulative permeate flux and local cake growth in submerged microfiltration processes. <i>Journal of Membrane Science</i> , 2011, 371, 52-64.	4.1	52
152	Noninvasive depth profiling of walls by portable nuclear magnetic resonance. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3117-3125.	1.9	39
153	Analysis of multisite 2D relaxation exchange NMR. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2010, 36A, 153-169.	0.2	67
154	Rapid Multiphase Flow Dynamics Mapped by Single-Shot MRI Velocimetry. <i>ChemPhysChem</i> , 2010, 11, 2630-2638.	1.0	24
155	Small Magnets for Portable NMR Spectrometers. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4133-4135.	7.2	176
156	Morphology of Novel PEAs Containing Two Consecutive Amide Bonds Randomly Distributed Along the Polyester Backbone. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 471-480.	1.1	2
157	Heterogeneity of Nanofilled EPDM Elastomers Investigated by Inverse Laplace Transform ¹ H NMR Relaxometry and Rheometry. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1579-1594.	1.1	19
158	Phase behavior of liquid-crystalline emulsion systems. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 554-559.	5.0	21
159	Polyethylene/palygorskite nanocomposites: Preparation by in situ polymerization and their characterization. <i>Polymer</i> , 2010, 51, 4686-4697.	1.8	33
160	Determining object boundaries from MR images with sub-pixel resolution: Towards in-line inspection with a mobile tomograph. <i>Journal of Magnetic Resonance</i> , 2010, 207, 53-58.	1.2	20
161	Reaction monitoring of hydrogen peroxide decomposition by NMR relaxometry. <i>Chemical Engineering Science</i> , 2010, 65, 1394-1399.	1.9	17
162	NMR spectroscopy in the milli-Tesla regime: Measurement of ¹ H chemical-shift differences below the line width. <i>Chemical Physics Letters</i> , 2010, 485, 217-220.	1.2	21

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163	Charlemagne was very tall, but not robust. <i>Economics and Human Biology</i> , 2010, 8, 289-290.	0.7	6
164	An NMR investigation on the phase structure and molecular mobility of the novel exfoliated polyethylene/palygorskite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1363-1371.	2.4	8
165	Noninvasive Testing of Art and Cultural Heritage by Mobile NMR. <i>Accounts of Chemical Research</i> , 2010, 43, 761-770.	7.6	115
166	Structure and dynamics of water in native and tanned collagen fibers: Effect of crosslinking. <i>International Journal of Biological Macromolecules</i> , 2010, 47, 590-596.	3.6	70
167	Relaxation—Relaxation Experiments in Natural Porous Media with Portable Halbach Magnets. <i>Vadose Zone Journal</i> , 2010, 9, 893-897.	1.3	15
168	Paths from weak to strong coupling in NMR. <i>Physical Review A</i> , 2010, 81, .	1.0	54
169	Trace Analysis by Low-Field NMR: Breaking the Sensitivity Limit. <i>Analytical Chemistry</i> , 2010, 82, 7078-7082.	3.2	46
170	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.	1.3	12
171	Hadamard NMR-Bildgebung mit Schichtselektion. <i>Biomedizinische Technik</i> , 2009, , 167-168.	0.9	0
172	Direct determination of the concentration dependence of diffusivities using combined model-based Raman and NMR experiments. <i>Fluid Phase Equilibria</i> , 2009, 277, 96-106.	1.4	14
173	Mobile NMR for geophysical analysis and materials testing. <i>Petroleum Science</i> , 2009, 6, 1-7.	2.4	20
174	Permeability Prediction for Low Porosity Rocks by Mobile NMR. <i>Pure and Applied Geophysics</i> , 2009, 166, 1125-1163.	0.8	32
175	Prediction of multicomponent mutual diffusion in liquids: Model discrimination using NMR data. <i>Fluid Phase Equilibria</i> , 2009, 278, 27-35.	1.4	27
176	Distributions of transverse relaxation times for soft-solids measured in strongly inhomogeneous magnetic fields. <i>Journal of Magnetic Resonance</i> , 2009, 196, 178-190.	1.2	39
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