

# Axel Haase

## List of Publications by Year in descending order

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314  
papers

16,433  
citations

29994

54  
h-index

18606

119  
g-index

322  
all docs

322  
docs citations

322  
times ranked

11587  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized autocalibrating partially parallel acquisitions (GRAPPA). Magnetic Resonance in Medicine, 2002, 47, 1202-1210.	1.9	4,347
2	<sup>1</sup> H NMR chemical shift selective (CHESS) imaging. Physics in Medicine and Biology, 1985, 30, 341-344.	1.6	952
3	Snapshot flash mri. applications to t1, t2, and chemical-shift imaging. Magnetic Resonance in Medicine, 1990, 13, 77-89.	1.9	694
4	FLASH imaging. Rapid NMR imaging using low flip-angle pulses. Journal of Magnetic Resonance, 1986, 67, 258-266.	0.5	379
5	Rapid NMR imaging of dynamic processes using the FLASH technique. Magnetic Resonance in Medicine, 1986, 3, 321-327.	1.9	344
6	Partially parallel imaging with localized sensitivities (PILS). Magnetic Resonance in Medicine, 2000, 44, 602-609.	1.9	284
7	Rapid Three-Dimensional MR Imaging Using the FLASH Technique. Journal of Computer Assisted Tomography, 1986, 10, 363-368.	0.5	231
8	Inversion recovery TrueFISP: Quantification of T1, T2, and spin density. Magnetic Resonance in Medicine, 2004, 51, 661-667.	1.9	217
9	VD-AUTO-SMASH imaging. Magnetic Resonance in Medicine, 2001, 45, 1066-1074.	1.9	210
10	Quantification of T1 values by SNAPSHOT-FLASH NMR imaging. Journal of Magnetic Resonance, 1992, 96, 608-612.	0.5	174
11	Magnetic resonance microimaging for noninvasive quantification of myocardial function and mass in the mouse. Magnetic Resonance in Medicine, 1998, 40, 43-48.	1.9	174
12	Magnetic Nanoparticles in Magnetic Resonance Imaging and Diagnostics. Pharmaceutical Research, 2012, 29, 1165-1179.	1.7	164
13	Water ascent in tall trees: does evolution of land plants rely on a highly metastable state?. New Phytologist, 2004, 162, 575-615.	3.5	163
14	Theoretical Evaluation and Comparison of Fast Chemical Shift Imaging Methods. Journal of Magnetic Resonance, 1997, 129, 145-160.	1.2	162
15	Developmental changes of cardiac function and mass assessed with MRI in neonatal, juvenile, and adult mice. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H652-H657.	1.5	149
16	IDEAL spiral CSI for dynamic metabolic MR imaging of hyperpolarized [ <sup>13</sup> C]pyruvate. Magnetic Resonance in Medicine, 2012, 68, 8-16.	1.9	144
17	Dobutamine-Stress Magnetic Resonance Microimaging in Mice. Circulation Research, 2001, 88, 563-569.	2.0	143
18	Inversion Recovery Snapshot FLASH MR Imaging. Journal of Computer Assisted Tomography, 1989, 13, 1036-1040.	0.5	139

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19	Chemical shift selective MR imaging using a whole-body magnet.. Radiology, 1985, 156, 441-444.	3.6	138
20	Simultaneous measurement of water flow velocity and solute transport in xylem and phloem of adult plants of <i>Ricinus communis</i> over a daily time course by nuclear magnetic resonance spectrometry. Plant, Cell and Environment, 2001, 24, 491-503.	2.8	135
21	In Vivo quantitative mapping of cardiac perfusion in rats using a noninvasive MR spin-labeling method. Journal of Magnetic Resonance Imaging, 1998, 8, 1240-1245.	1.9	116
22	Xylem water transport: is the available evidence consistent with the cohesion theory?. Plant, Cell and Environment, 1994, 17, 1169-1181.	2.8	104
23	NMR probeheads for in vivo applications. Concepts in Magnetic Resonance, 2000, 12, 361-388.	1.3	103
24	Fast T1 mapping on a whole-body scanner. Magnetic Resonance in Medicine, 1999, 42, 206-209.	1.9	102
25	Quantitative magnetic resonance imaging of perfusion using magnetic labeling of water proton spins within the detection slice. Magnetic Resonance in Medicine, 1996, 35, 540-546.	1.9	101
26	T1 Maps by K-Space Reduced Snapshot-FLASH MRI. Journal of Computer Assisted Tomography, 1992, 16, 327-332.	0.5	97
27	Quantification of regional blood volumes by rapid T1 mapping. Magnetic Resonance in Medicine, 1993, 29, 709-712.	1.9	94
28	Imaging of pH in vivo using hyperpolarized <sup>13</sup> C-labelled zymonic acid. Nature Communications, 2017, 8, 15126.	5.8	94
29	In vivo MRI and its histological correlates in acute adoptive transfer experimental allergic encephalomyelitis. Brain, 1996, 119, 239-248.	3.7	93
30	High-resolution MRI with cardiac and respiratory gating allows for accurate in vivo atherosclerotic plaque visualization in the murine aortic arch. Magnetic Resonance in Medicine, 2003, 50, 69-74.	1.9	93
31	Rapid quantitative lung <sup>1</sup> H T1 mapping. Journal of Magnetic Resonance Imaging, 2001, 14, 795-799.	1.9	92
32	Myocardial Perfusion and Intracapillary Blood Volume in Rats at Rest and with Coronary Dilatation: MR Imaging in Vivo with Use of a Spin-Labeling Technique. Radiology, 2000, 215, 189-197.	3.6	90
33	Quantitative magnetic resonance imaging of capillary water permeability and regional blood volume with an intravascular MR contrast agent. Magnetic Resonance in Medicine, 1997, 37, 769-777.	1.9	87
34	Hydrogel-Based Non-Autologous Cell and Tissue Therapy. BioTechniques, 2000, 29, 564-581.	0.8	87
35	Stimulated echo imaging. Journal of Magnetic Resonance, 1985, 64, 81-93.	0.5	81
36	High Molecular Weight Organic Compounds in the Xylem Sap of Mangroves: Implications for Long-Distance Water Transport. Botanica Acta, 1994, 107, 218-229.	1.6	80

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37	A Novel Class of Amitogenic Alginate Microcapsules for Long-Term Immunoisolated Transplantation. <i>Annals of the New York Academy of Sciences</i> , 2001, 944, 199-215.	1.8	78
38	Concentrations of human cardiac phosphorus metabolites determined by SLOOP31P NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 657-663.	1.9	77
39	Cardiac Hypertrophy Is Associated With Decreased eNOS Expression in Angiotensin AT 2 Receptor-Deficient Mice. <i>Hypertension</i> , 2003, 42, 1177-1182.	1.3	77
40	In vivo assessment of absolute perfusion and intracapillary blood volume in the murine myocardium by spin labeling magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 584-592.	1.9	77
41	Magnetization exchange in capillaries by microcirculation affects diffusion-controlled spin-relaxation: A model which describes the effect of perfusion on relaxation enhancement by intravascular contrast agents. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 43-55.	1.9	76
42	Motion-adapted gating based on k-space weighting for reduction of respiratory motion artifacts. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 322-333.	1.9	76
43	Saturation-recovery metabolic exchange rate imaging with hyperpolarized [ <sup>13</sup> C] pyruvate using spectral-spatial excitation. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1209-1216.	1.9	76
44	Analysis of right ventricular function in healthy mice and a murine model of heart failure by in vivo MRI. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H1065-H1071.	1.5	73
45	Cardiac magnetic resonance imaging in small animal models of human heart failure. <i>Medical Image Analysis</i> , 2003, 7, 369-375.	7.0	72
46	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 547-555.	1.9	71
47	Dynamic studies of phloem and xylem flow in fully differentiated plants by fast nuclear-magnetic-resonance microimaging. <i>Protoplasma</i> , 1999, 209, 126-131.	1.0	68
48	Nuclear-magnetic-resonance imaging of leaves of <i>Mesembryanthemum crystallinum</i> L. plants grown at high salinity. <i>Planta</i> , 1989, 178, 524-530.	1.6	67
49	Localized Spectroscopy from Anatomically Matched Compartments: Improved Sensitivity and Localization for Cardiac 31P MRS in Humans. <i>Journal of Magnetic Resonance</i> , 1998, 134, 287-299.	1.2	60
50	19F-MRI in vivo determination of the partial oxygen pressure in perfluorocarbon-loaded alginate capsules implanted into the peritoneal cavity and different tissues. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 1039-1047.	1.9	60
51	Magnetic Resonance Imaging of Coronary Arteries and Heart Valves in a Living Mouse: Techniques and Preliminary Results. <i>Journal of Magnetic Resonance</i> , 2000, 146, 290-296.	1.2	59
52	Fast High-Resolution Magnetic Resonance Imaging Demonstrates Fractality of Myocardial Perfusion in Microscopic Dimensions. <i>Circulation Research</i> , 2001, 88, 340-346.	2.0	58
53	Localization of unaffected spins in NMR imaging and spectroscopy (LOCUS spectroscopy). <i>Magnetic Resonance in Medicine</i> , 1986, 3, 963-969.	1.9	56
54	Radial Turgor and Osmotic Pressure Profiles in Intact and Excised Roots of <i>Aster tripolium</i> : Pressure Probe Measurements and Nuclear Magnetic Resonance-Imaging Analysis. <i>Plant Physiology</i> , 1992, 99, 186-196.	2.3	55

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55	Vascular Hypertrophy and Increased P70S6 Kinase in Mice Lacking the Angiotensin II AT 2 Receptor. Circulation, 2001, 104, 2602-2607.	1.6	54
56	Serial Magnetic Resonance Imaging of Microvascular Remodeling in the Infarcted Rat Heart. Circulation, 2001, 103, 1564-1569.	1.6	53
57	In vivo time-resolved quantitative motion mapping of the murine myocardium with phase contrast MRI. Magnetic Resonance in Medicine, 2003, 49, 315-321.	1.9	51
58	Dynamic digital subtraction imaging using fast low-angle shot MR movie sequence.. Radiology, 1986, 160, 537-541.	3.6	50
59	In vivo measurement of partial oxygen pressure in large vessels and in the reticuloendothelial system using fast 19F-MRI. Magnetic Resonance in Medicine, 1995, 34, 738-745.	1.9	50
60	The impact of lipid distribution, composition and mobility on xylem water refilling of the resurrection plant Myrothamnus flabellifolia. New Phytologist, 2003, 159, 487-505.	3.5	50
61	Correction of phase errors in quantitative water-fat imaging using a monopolar time-interleaved multi-echo gradient echo sequence. Magnetic Resonance in Medicine, 2017, 78, 984-996.	1.9	50
62	Fast NMR Flow Measurements in Plants Using FLASH Imaging. Journal of Magnetic Resonance, 1999, 137, 29-32.	1.2	49
63	Xylem conduits of a resurrection plant contain a unique lipid lining and refill following a distinct pattern after desiccation. New Phytologist, 2000, 148, 239-255.	3.5	49
64	Fabrication of NMR - Microsensors for nanoliter sample volumes. Microelectronic Engineering, 2000, 53, 517-519.	1.1	49
65	Impact of hydroxymethylglutaryl coenzyme a reductase inhibition on left ventricular remodeling after myocardial infarction. Journal of the American College of Cardiology, 2002, 40, 1695-1700.	1.2	49
66	The effect of perfusion on T1 after slice-selective spin inversion in the isolated cardioplegic rat heart: Measurement of a lower bound of intracapillary-extravascular water proton exchange rate. Magnetic Resonance in Medicine, 1997, 38, 917-923.	1.9	48
67	Quantitative NMR microscopy on intact plants. Magnetic Resonance Imaging, 1995, 13, 447-455.	1.0	47
68	Apparent rate constant mapping using hyperpolarized [ <sup>13</sup> C]pyruvate. NMR in Biomedicine, 2014, 27, 1256-1265.	1.6	46
69	Quantitative tissue perfusion measurements in head and neck carcinoma patients before and during radiation therapy with a non-invasive MR imaging spin-labeling technique. Radiotherapy and Oncology, 2003, 67, 27-34.	0.3	45
70	Comparison of acquisition schemes for hyperpolarised <sup>13</sup> C imaging. NMR in Biomedicine, 2015, 28, 715-725.	1.6	45
71	REGIONAL PHYSIOLOGICAL FUNCTIONS DEPICTED BY SEQUENCES OF RAPID MAGNETIC RESONANCE IMAGES. Lancet, The, 1985, 326, 893.	6.3	44
72	In Vivo Assessment of Cardiac Remodeling After Myocardial Infarction in Rats by Cine-Magnetic Resonance Imaging. Journal of Cardiovascular Magnetic Resonance, 2000, 2, 171-180.	1.6	44

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73	Portable nuclear magnetic resonance imaging system. Review of Scientific Instruments, 2000, 71, 4257.	0.6	44
74	What are the driving forces for water lifting in the xylem conduit?. Physiologia Plantarum, 2002, 114, 327-335.	2.6	44
75	Resolution enhancement in in vivo NMR spectroscopy: detection of intermolecular zero-quantum coherences. Journal of Magnetic Resonance, 2003, 161, 265-274.	1.2	44
76	Plant histochemistry by correlation peak imaging.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 11912-11915.	3.3	42
77	Measurement of Water Flow in the Xylem Vessels of Intact Maize Plants using Flow-sensitive NMR Imaging. Botanica Acta, 1996, 109, 184-186.	1.6	42
78	A 16-channel MR coil for simultaneous PET/MR imaging in breast cancer. European Radiology, 2015, 25, 1154-1161.	2.3	42
79	Rapid NMR imaging using stimulated echoes. Journal of Magnetic Resonance, 1985, 65, 130-135.	0.5	40
80	Structure of the invertebrate fauna in salt marshes of the Wadden Sea coast of Schleswig-Holstein influenced by sheep-grazing. Helgoländer Meeresuntersuchungen, 1995, 49, 563-589.	0.2	40
81	Quantitative assessment of myocardial perfusion with a spin-labeling technique: Preliminary results in patients with coronary artery disease. Journal of Magnetic Resonance Imaging, 2003, 18, 555-560.	1.9	40
82	Diffusion of hyperpolarized <sup>13</sup> C-metabolites in tumor cell spheroids using real-time NMR spectroscopy. NMR in Biomedicine, 2013, 26, 557-568.	1.6	40
83	Multiple chemical-shift-selective NMR imaging using stimulated echoes. Journal of Magnetic Resonance, 1985, 64, 94-102.	0.5	39
84	Microfluidic-Based Synthesis of Magnetic Nanoparticles Coupled with Miniaturized NMR for Online Relaxation Studies. Analytical Chemistry, 2018, 90, 9975-9982.	3.2	38
85	Cardiac and vascular imaging with an MR snapshot technique.. Radiology, 1990, 177, 527-532.	3.6	37
86	Partial inhibition of AT-EAE by an antibody to ICAM-1: Clinico-histological and MRI studies. Journal of Neuroimmunology, 1996, 69, 85-93.	1.1	37
87	The influence of experimental parameters in surface-coil NMR. Journal of Magnetic Resonance, 1984, 56, 401-412.	0.5	36
88	Magnetization-Prepared NMR Microscopy. Journal of Magnetic Resonance Series A, 1993, 105, 230-233.	1.6	36
89	In vivo assessment of absolute perfusion in the murine skeletal muscle with spin labeling MRI. Journal of Magnetic Resonance Imaging, 2003, 17, 147-152.	1.9	36
90	A simple geometrical description of the TrueFISP ideal transient and steady-state signal. Magnetic Resonance in Medicine, 2006, 55, 177-186.	1.9	36

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91	Quantified $^1\text{H}$ imaging with hyperpolarized $^{13}\text{C}$ -bicarbonate. Magnetic Resonance in Medicine, 2015, 73, 2274-2282.	1.9	36
92	Magnetic resonance imaging investigation of blood-brain barrier damage in adoptive transfer experimental autoimmune encephalomyelitis. Journal of Neuroimmunology, 1993, 46, 199-206.	1.1	35
93	Molecular Diffusion in NMR Microscopy. Journal of Magnetic Resonance Series B, 1994, 103, 162-167.	1.6	35
94	The kinetics of sucrose concentration in the phloem of individual vascular bundles of the Ricinus communis seedling measured by nuclear magnetic resonance microimaging. Planta, 1998, 205, 132-139.	1.6	35
95	Non-Invasive Evaluation of the Location, the Functional Integrity and the Oxygen Supply of Implants: $^{19}\text{F}$ Nuclear Magnetic Resonance Imaging of Perfluorocarbon-Loaded BA2+-Alginate Beads. Artificial Cells, Blood Substitutes, and Biotechnology, 2000, 28, 129-146.	0.9	35
96	Simultaneous characterization of tumor cellularity and the Warburg effect with PET, MRI and hyperpolarized $^{13}\text{C}$ -MRSI. Theranostics, 2018, 8, 4765-4780.	4.6	35
97	Determination of regional blood volume and intra-extracapillary water exchange in human myocardium using Feruglose: First clinical results in patients with coronary artery disease. Magnetic Resonance in Medicine, 2002, 47, 1013-1016.	1.9	34
98	In vivo high-resolution MR imaging of neuropathologic changes in the injured rat spinal cord. American Journal of Neuroradiology, 2006, 27, 598-604.	1.2	34
99	Correlation-Peak Imaging. Journal of Magnetic Resonance Series B, 1996, 112, 141-150.	1.6	33
100	Perfusion-corrected mapping of cardiac regional blood volume in rats in vivo. Magnetic Resonance in Medicine, 1999, 42, 500-506.	1.9	33
101	Perfluoro-15-Crown-5-Ether Labelled Macrophages in Adoptive Transfer Experimental Allergic Encephalomyelitis. Artificial Cells, Blood Substitutes, and Biotechnology, 1997, 25, 243-254.	0.9	32
102	Visualization of myocardial microstructure using high-resolution $T_2^*$ imaging at high magnetic field. Magnetic Resonance in Medicine, 2003, 49, 371-375.	1.9	31
103	In vivo quantitative three-dimensional motion mapping of the murine myocardium with PC-MRI at 17.6 T. Magnetic Resonance in Medicine, 2006, 55, 1058-1064.	1.9	31
104	Exploitation of Intestinal Colonization Inhibition Between <i>Salmonella</i> Organisms for Live Vaccines in Poultry – Potential and Limitations. Zoonoses and Public Health, 2011, 58, 540-548.	0.9	30
105	Altered energy metabolism after myocardial infarction assessed by $^{31}\text{P}$ -MR-spectroscopy in humans. European Radiology, 2000, 10, 1323-1328.	2.3	29
106	Perfusion imaging using spin-labeling methods: Contrast- to-noise comparison in functional MRI applications. Magnetic Resonance in Medicine, 2001, 46, 172-182.	1.9	29
107	Time course of right ventricular remodeling in rats with experimental myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H241-H248.	1.5	29
108	NMR imaging of the honeybee brain. Journal of Insect Science, 2004, 4, 7.	0.6	29

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109	Multimodal Assessment of In Vivo Metabolism with Hyperpolarized [ $^{13}\text{C}$ ]MR Spectroscopy and $^{18}\text{F}$ -FDG PET Imaging in Hepatocellular Carcinoma Tumor-Bearing Rats. Journal of Nuclear Medicine, 2013, 54, 1113-1119.	2.8	29
110	Metabolic imaging of hyperpolarized [ $^{13}\text{C}$ ]acetate and [ $^{13}\text{C}$ ]acetylcarnitine – investigation of the influence of dobutamine induced stress. Magnetic Resonance in Medicine, 2015, 74, 1011-1018.	1.9	29
111	Fast T2-mapping with SNAPSHOT FLASH imaging. Magnetic Resonance Imaging, 1995, 13, 633-639.	1.0	28
112	Three-dimensional $^{31}\text{P}$ magnetic resonance spectroscopic imaging of regional high-energy phosphate metabolism in injured rat heart. Magnetic Resonance in Medicine, 1998, 39, 731-741.	1.9	28
113	Implications of mucilage on pressure bomb measurements and water lifting in trees rooting in high-salinity water. Trees - Structure and Function, 2002, 16, 100-111.	0.9	28
114	High-resolution MR imaging of the rat spinal cord in vivo in a wide-bore magnet at 17.6 Tesla. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 17, 353-358.	1.1	28
115	Multiparametric human hepatocellular carcinoma characterization and therapy response evaluation by hyperpolarized $^{13}\text{C}$ MRSI. NMR in Biomedicine, 2016, 29, 952-960.	1.6	28
116	$^{13}\text{C}$ -trideuteromethyl [ $^{15}\text{N}$ ]glutamine: A long-lived hyperpolarized perfusion marker. Magnetic Resonance in Medicine, 2016, 76, 1900-1904.	1.9	28
117	Hyperpolarized Amino Acid Derivatives as Multivalent Magnetic Resonance pH Sensor Molecules. Sensors, 2018, 18, 600.	2.1	28
118	Flow suppression in rapid FLASH NMR images. Magnetic Resonance in Medicine, 1987, 4, 372-377.	1.9	27
119	Quantitative Measurement of Sucrose Distribution in Ricinus communis Seedlings by Chemical-Shift Microscopy. Journal of Magnetic Resonance Series B, 1994, 105, 249-252.	1.6	27
120	Xylem pressure response in maize roots subjected to osmotic stress: determination of radial reflection coefficients by use of the xylem pressure probe. Plant, Cell and Environment, 1995, 18, 906-912.	2.8	27
121	Functional Magnetic Resonance Imaging in Intact Plants – Quantitative Observation of Flow in Plant Vessels. Magnetic Resonance Imaging, 1998, 16, 331-338.	1.0	27
122	A superconducting probehead applicable for nuclear magnetic resonance microscopy at 7 T. Review of Scientific Instruments, 1998, 69, 2708-2712.	0.6	27
123	Gradient system providing continuously variable field characteristics. Magnetic Resonance in Medicine, 2002, 47, 800-808.	1.9	26
124	Spatial localization of high resolution $^{31}\text{P}$ spectra with a surface coil. Journal of Magnetic Resonance, 1983, 55, 164-169.	0.5	25
125	Nuclear magnetic resonance imaging of mummified corpses. American Journal of Physical Anthropology, 1986, 70, 27-28.	2.1	25
126	Fast $^{19}\text{F}$ -NMR imaging in vivo using FLASH-MRI. Magnetic Resonance Imaging, 1994, 12, 149-153.	1.0	25



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127	Resistivity of Red Blood Cells Against High-Intensity, Short-Duration Electric Field Pulses Induced by Chelating Agents. <i>Journal of Membrane Biology</i> , 1999, 170, 121-133.	1.0	25
128	Xylem Flow and its Driving Forces in a Tropical Liana: Concomitant Flow-Sensitive NMR Imaging and Pressure Probe Measurements. <i>Plant Biology</i> , 2000, 2, 579-582.	1.8	25
129	Myocardial perfusion imaging using a non-contrast agent MR imaging technique. <i>International Journal of Cardiovascular Imaging</i> , 2001, 17, 123-132.	0.2	25
130	Multichannel digital heteronuclear magnetic resonance biosensor. <i>Biosensors and Bioelectronics</i> , 2019, 126, 240-248.	5.3	25
131	Fast inversion recovery T1 contrast and chemical shift contrast in high-resolution Snapshot FLASH MR images. <i>Magnetic Resonance Imaging</i> , 1992, 10, 1-6.	1.0	24
132	High-resolution one-and two-dimensional $^1\text{H}$ MRS of human brain tumor and normal glial cells. <i>NMR in Biomedicine</i> , 1994, 7, 111-120.	1.6	24
133	Can We Use Vertical Bore Magnetic Resonance Scanners for Murine Cardiovascular Phenotype Characterization? Influence of Upright Body Position on Left Ventricular Hemodynamics in Mice. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2001, 3, 311-315.	1.6	24
134	3D-SNAPSHOT FLASH NMR imaging of the human heart. <i>Magnetic Resonance Imaging</i> , 1990, 8, 377-379.	1.0	23
135	High-Resolution Diffusion Imaging Using a Radial Turbo-Spin-Echo Sequence: Implementation, Eddy Current Compensation, and Self-Navigation. <i>Journal of Magnetic Resonance</i> , 2000, 144, 243-254.	1.2	23
136	$^{23}\text{Na}$ and $^1\text{H}$ NMR Microimaging of Intact Plants. <i>Journal of Magnetic Resonance</i> , 2000, 144, 297-304.	1.2	23
137	Diffusion-weighted stimulated echo acquisition mode (DW-STEAM) MR spectroscopy to measure fat unsaturation in regions with low proton density fat fraction. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 32-41.	1.9	23
138	High-resolution MR imaging in mice. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 6, 186-188.	1.1	22
139	Effects of pyruvate dose on <i>in vivo</i> metabolism and quantification of hyperpolarized $^{13}\text{C}$ spectra. <i>NMR in Biomedicine</i> , 2012, 25, 142-151.	1.6	22
140	Chronic coronary artery stenosis induces impaired function of remote myocardium: MRI and spectroscopy study in rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2712-H2721.	1.5	21
141	Impact of Hypoxia and the Metabolic Microenvironment on Radiotherapy of Solid Tumors. <i>Strahlentherapie Und Onkologie</i> , 2004, 180, 609-615.	1.0	21
142	Radioiodine therapy in Graves' hyperthyroidism: Determination of individual optimum target dose. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2000, 108, 133-137.	0.6	20
143	Myocardial Perfusion Measurements by Spin-Labeling Under Different Vasodynamic States #. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2004, 6, 509-516.	1.6	20
144	In vivo comparison of atherosclerotic plaque progression with vessel wall strain and blood flow velocity in apoE $^{-/-}$ mice with MR microscopy at 17.6 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 159-166.	1.1	20

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145	Deuteration of Hyperpolarized <sup>13</sup> C-Labelled Zymonic Acid Enables Sensitivity-Enhanced Dynamic MRI of pH. ChemPhysChem, 2017, 18, 2422-2425.	1.0	20
146	Three-dimensional FLASH MR imaging of thorax and abdomen without triggering or gating. Magnetic Resonance Imaging, 1986, 4, 381-386.	1.0	19
147	Direct measurement of spin-lattice relaxation times of Phosphorus Metabolites in Human Myocardium. Magnetic Resonance in Medicine, 1992, 26, 300-307.	1.9	19
148	Study of Microcirculation by Coloured Microspheres and NMR-microscopy in Isolated Rat Heart: Effect of Ischaemia, Endothelin-1 and Endothelin-1 Antagonist BQ 610. Journal of Molecular and Cellular Cardiology, 1997, 29, 3115-3122.	0.9	18
149	Radial Spectroscopic Imaging. Journal of Magnetic Resonance, 1997, 125, 325-331.	1.2	18
150	Water ascent in plants: the ongoing debate. Trends in Plant Science, 2000, 5, 145-146.	4.3	18
151	Investigation of the microstructure of the isolated rat heart: A comparison between T <sub>2</sub> - and diffusion-weighted MRI. Magnetic Resonance in Medicine, 2003, 50, 1144-1150.	1.9	18
152	A <sup>1</sup> H NMR study of water flow in Phaseolus vulgaris L. roots treated with nitrate or ammonium. Plant and Soil, 2009, 319, 307-321.	1.8	18
153	Investigation of metabolic changes in STZ-induced diabetic rats with hyperpolarized [1- <sup>13</sup> C]acetate. Physiological Reports, 2015, 3, e12474.	0.7	18
154	Double-tuned four-ring birdcage resonators for in vivo <sup>31</sup> P-nuclear magnetic resonance spectroscopy at 11.75 T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 243-246.	1.1	17
155	Quantitative regional blood volume studies in rat myocardium in Vivo. Magnetic Resonance in Medicine, 1998, 40, 517-525.	1.9	17
156	Preamplified planar microcoil on GaAs substrates for microspectroscopy. Review of Scientific Instruments, 2003, 74, 4855-4857.	0.6	17
157	Bolus tracking for improved metabolic imaging of hyperpolarised compounds. Journal of Magnetic Resonance, 2014, 243, 40-46.	1.2	17
158	<sup>2</sup> D mapping with magnetization-prepared 3D TSE based on a modified BIR-4 <sup>2</sup> D preparation. NMR in Biomedicine, 2017, 30, e3773.	1.6	17
159	Size-dependent MR relaxivities of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 427, 122-126.	1.0	17
160	Investigation of the <sup>1</sup> H NMR visibility of lactate in different rat and human brain cells. NMR in Biomedicine, 1994, 7, 349-355.	1.6	16
161	In Vivo Colored Microspheres in the Isolated Rat Heart for Use in NMR. Journal of Molecular and Cellular Cardiology, 1996, 28, 571-577.	0.9	16
162	Nuclear magnetic resonance microscopy of Ancistrocladus heyneanus. Protoplasma, 1997, 198, 210-217.	1.0	16

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163	Multisite Kinetic Modeling of $^{13}\text{C}$ Metabolic MR Using $^{13}\text{C}$ Pyruvate. Radiology Research and Practice, 2014, 2014, 1-10.	0.6	16
164	Imaging of the lumbar plexus: Optimized refocusing flip angle train design for 3D TSE. Journal of Magnetic Resonance Imaging, 2016, 43, 789-799.	1.9	16
165	Orthogonally combined motion- and diffusion-sensitized driven equilibrium (OC-MDSDE) preparation for vessel signal suppression in 3D turbo spin echo imaging of peripheral nerves in the extremities. Magnetic Resonance in Medicine, 2018, 79, 407-415.	1.9	16
166	CHEMICAL-SHIFT-SELECTIVE MAGNETIC-RESONANCE IMAGING OF AVASCULAR NECROSIS OF THE FEMORAL HEAD. Lancet, The, 1985, 325, 370-371.	6.3	15
167	Multipurpose NMR imaging using stimulated echoes. Magnetic Resonance in Medicine, 1986, 3, 554-561.	1.9	15
168	Quantitative nmr microscopy of multicellular tumor spheroids and confrontation cultures. Magnetic Resonance in Medicine, 1995, 34, 596-603.	1.9	15
169	MR CAT scan: a modular approach for hybrid imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 183-199.	1.1	15
170	Effect of Transmyocardial Laser Revascularization on Myocardial Perfusion and Left Ventricular Remodeling after Myocardial Infarction in Rats. Radiology, 2002, 225, 487-493.	3.6	15
171	Detection of molecules and cells using nuclear magnetic resonance with magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 380, 271-275.	1.0	15
172	Correction of motion-induced susceptibility artifacts and $B_0$ drift during proton resonance frequency shift-based MR thermometry in the pelvis with background field removal methods. Magnetic Resonance in Medicine, 2020, 84, 2495-2511.	1.9	15
173	ECG-triggered arterial FLASH-MR flow measurement using an external standard. Magnetic Resonance Imaging, 1987, 5, 325-330.	1.0	14
174	Calculation of signal intensities in hybrid sequences for fast NMR imaging. Magnetic Resonance in Medicine, 1995, 34, 481-489.	1.9	14
175	High-pressure autoclave for multipurpose nuclear magnetic resonance measurements up to 10 MPa. Review of Scientific Instruments, 1999, 70, 2448-2453.	0.6	14
176	Bias and precision analysis of diffusional kurtosis imaging for different acquisition schemes. Magnetic Resonance in Medicine, 2016, 76, 1684-1696.	1.9	14
177	Measurement of extracellular volume and transit time heterogeneity using contrast-enhanced myocardial perfusion MRI in patients after acute myocardial infarction. Magnetic Resonance in Medicine, 2017, 77, 2320-2330.	1.9	14
178	Investigation of Coronary Vessels in Microscopic Dimensions by Two- and Three-dimensional NMR Microscopic Imaging in the Isolated Rat Heart. Circulation, 1995, 92, 968-977.	1.6	14
179	Fast Acquisition of pO <sub>2</sub> Maps Using $^{19}\text{F}$ MRI and a New Method for the Suppression of Chemical-Shift Artifacts. Journal of Magnetic Resonance Series B, 1994, 105, 233-237.	1.6	13
180	Compensation of Diffusion Effects in T <sub>2</sub> Measurements. Magnetic Resonance in Medicine, 1995, 33, 113-115.	1.9	13

#	ARTICLE	IF	CITATIONS
181	NMR-microscopy with TrueFISP at 11.75T. Journal of Magnetic Resonance, 2003, 161, 252-257.	1.2	13
182	Non-contrast-enhanced MRI of the pulmonary blood volume using two-compartment modeled $T_1$ -relaxation. Journal of Magnetic Resonance Imaging, 2012, 36, 397-404.	1.9	13
183	Fast Generation of Leakproof Surfaces from Well-Defined Objects by a Modified Marching Cubes Algorithm. Computer Graphics Forum, 1995, 14, 127-138.	1.8	12
184	Partial respecification of nasotemporal polarity in double-temporal chick and chimeric chick-quail eyes. Mechanisms of Development, 1998, 74, 15-28.	1.7	12
185	Improved cardiac sodium MR imaging by density-weighted phase-encoding. Journal of Magnetic Resonance Imaging, 2005, 21, 78-81.	1.9	12
186	Magnetic resonance microscopy of prenatal dolphins (Mammalia, Odontoceti, Delphinidae) - Ontogenetic and phylogenetic implications. Zoologischer Anzeiger, 2012, 251, 115-130.	0.4	12
187	Experimental autoimmune encephalomyelitis in the rat spinal cord: lesion detection with high-resolution MR microscopy at 17.6 T. American Journal of Neuroradiology, 2005, 26, 19-25.	1.2	12
188	SURFACE COIL NMR IN DIAGNOSIS. Lancet, The, 1983, 322, 1082-1083.	6.3	11
189	NMR imaging of spin-lattice relaxation using stimulated echoes. Journal of Magnetic Resonance, 1985, 65, 481-490.	0.5	11
190	Variable excitation angle AFP pulses. Magnetic Resonance in Medicine, 1989, 9, 435-440.	1.9	11
191	Comments on the Article of J. B. Passioura - An Impasse in Plant Water Relations? Botanica Acta, 1991, 104, 412-415.	1.6	11
192	Fast Measurement of Temperature Distributions by Rapid $T_1$ Mapping. Journal of Magnetic Resonance Series B, 1995, 106, 178-180.	1.6	11
193	Changes of myocardial high-energy phosphates with the cardiac cycle during acute or chronic myocardial stress. Magnetic Resonance in Medicine, 1998, 40, 727-732.	1.9	11
194	Self and transport diffusion of fluids in $\text{SiO}_2$ alcogels studied by NMR pulsed gradient spin echo and NMR imaging. Journal of Non-Crystalline Solids, 1998, 225, 91-95.	1.5	11
195	Cardiovascular phenotype characterization in mice by high resolution magnetic resonance imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 11, 10-15.	1.1	11
196	Double tuned $^{23}\text{Na}$ - $^1\text{H}$ nuclear magnetic resonance birdcage for application on mice in vivo. Review of Scientific Instruments, 2001, 72, 2508-2510.	0.6	11
197	Abdominal imaging with a modular combination of spin and gradient echoes. Magnetic Resonance in Medicine, 2002, 47, 425-432.	1.9	11
198	RF flux guides for excitation and reception in $^{31}\text{P}$ spectroscopic and imaging experiments at 2 Tesla. Concepts in Magnetic Resonance, 2004, 23B, 44-49.	1.3	11

#	ARTICLE	IF	CITATIONS
199	Non-invasive lipid measurement in living insects using NMR microscopy. Journal of Experimental Biology, 2012, 215, 3137-41.	0.8	11
200	High-resolution echo-planar spectroscopic imaging at ultra-high field. NMR in Biomedicine, 2018, 31, e3950.	1.6	11
201	q-Space Deep Learning for Twelve-Fold Shorter and Model-Free Diffusion MRI Scans. Lecture Notes in Computer Science, 2015, , 37-44.	1.0	11
202	Reduzierung von NMR-Bildartefakten durch Benutzung optimierter Werkstoffe für diagnostische Hilfsmittel und Implantate. Reduction of Artefacts in Magnetic Resonance Images by Using Optimized Materials for Diagnostic Devices and Implants. Biomedizinische Technik, 1994, 39, 42-46.	0.9	10
203	Single-Shot Spectroscopic Imaging (SISSI) Using a PEEP/BURST Hybrid. Journal of Magnetic Resonance Series B, 1996, 110, 278-283.	1.6	10
204	Hybrid cardiac imaging with MR-CAT scan: A feasibility study. Journal of Magnetic Resonance Imaging, 2000, 11, 711-716.	1.9	10
205	Microvascular adaptation to coronary stenosis in the rat heart in vivo: a serial magnetic resonance imaging study. Microvascular Research, 2003, 66, 173-182.	1.1	10
206	Iterative reconstruction for few-view grating-based phase-contrast CT – An in vitro mouse model. Europhysics Letters, 2013, 102, 48001.	0.7	10
207	Parameterization of hyperpolarized <sup>13</sup> C-bicarbonate-dissolution dynamic nuclear polarization. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 591-598.	1.1	10
208	Spectroscopic FLASH NMR imaging (SPLASH imaging). Journal of Magnetic Resonance, 1987, 71, 550-553.	0.5	9
209	Endothelin-1 Increases Susceptibility of Isolated Rat Hearts to Ischemia/Reperfusion Injury by Reducing Coronary Flow. Journal of Molecular and Cellular Cardiology, 1998, 30, 2657-2668.	0.9	9
210	Signal Intensities in FLASH-EPI-Hybrid Sequences. Journal of Magnetic Resonance, 1999, 139, 74-80.	1.2	9
211	Three-Dimensional <sup>13</sup> C-Spectroscopic Imaging in the Isolated Infarcted Rat Heart. Journal of Magnetic Resonance, 2000, 143, 17-23.	1.2	9
212	Metabolite monitoring in plants with double-quantum filtered chemical shift imaging. Journal of Experimental Botany, 2000, 51, 2109-2117.	2.4	9
213	Combined High-Speed NMR Imaging of Perfusion and Microscopic Coronary Conductance Vessels in the Isolated Rat Heart. Microvascular Research, 2001, 62, 327-334.	1.1	9
214	Magnetization transfer short inversion time inversion recovery enhanced <sup>1</sup> H MRI of the human lung. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2002, 15, 10-17.	1.1	9
215	Magnetization transfer short inversion time inversion recovery enhanced <sup>1</sup> H MRI of the human lung. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2002, 15, 10-17.	1.1	9
216	Time-resolved flow measurement in the isolated rat heart: Characterization of left coronary artery stenosis. Magnetic Resonance in Medicine, 2003, 50, 449-452.	1.9	9

#	ARTICLE	IF	CITATIONS
217	Diffusion generated T1 and T2 contrast. Journal of Magnetic Resonance, 2008, 192, 139-150.	1.2	9
218	Real valued diffusion-weighted imaging using decorrelated phase filtering. Magnetic Resonance in Medicine, 2017, 77, 559-570.	1.9	9
219	Measurement of Oxygen Tensions in the Abdominal Cavity and in the Skeletal Muscle Using <sup>19</sup> F-MRI of Neat PFC Droplets. Advances in Experimental Medicine and Biology, 1997, 428, 569-572.	0.8	9
220	Functional MR Imaging of the Human Brain Using FLASH: Influence of Various Imaging Parameters. Journal of Magnetic Resonance, 1999, 140, 162-171.	1.2	8
221	A coil combination for magnetic resonance perfusion imaging of mice in vivo at 7 T. Review of Scientific Instruments, 2003, 74, 2843-2848.	0.6	8
222	A Portable NMR Spectrometer With a Probe Head Combining RF and DC Capabilities to Generate Pulsed-Field Gradients. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8628-8636.	2.4	8
223	Half-Life of Perfluorooctylbromide in Inner Organs Determined by Fast <sup>19</sup> F-NMR Imaging. Advances in Experimental Medicine and Biology, 1994, 361, 129-134.	0.8	8
224	A new in situ hybridization technique for spliced RNA species documents the bone marrow origin of pulmonary macrophages in chronic myelogenous leukemia. Blood, 1992, 80, 2321-2325.	0.6	7
225	Scan time reduction in snapshot flash MRI. Magnetic Resonance in Medicine, 1992, 24, 391-396.	1.9	7
226	<sup>1</sup> H NMR Investigations of Tumor Spheroids Grown from a Human Glioma Biopsy or from a Human Malignant Glioma Cell Line. Journal of Magnetic Resonance Series B, 1995, 109, 39-43.	1.6	7
227	Three-dimensional coronary angiography of the perfused rat heart. Journal of Magnetic Resonance Imaging, 1997, 7, 316-320.	1.9	7
228	Basic pulse sequences for fast cardiac MR imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 84-87.	1.1	7
229	Sucrose unloading in the hypocotyl of the Ricinus communis L. seedling measured by <sup>13</sup> C-nuclear magnetic resonance spectroscopy in vivo. Planta, 1999, 208, 358-364.	1.6	7
230	In vivo <sup>19</sup> F NMR chemical-shift imaging of <i>Ancistrocladus</i> species. Protoplasma, 2001, 218, 134-143.	1.0	7
231	Design, fabrication and test of the klystrino. , 0, , .		7
232	Flow encoded NMR spectroscopy for quantification of metabolite flow in intact plants. Journal of Magnetic Resonance, 2003, 161, 70-76.	1.2	7
233	Letter to the Editor: <sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N backbone and sidechain resonance assignment of Mip(77?213) the PPlase domain of the Legionella pneumophila Mip protein. Journal of Biomolecular NMR, 2005, 31, 77-78.	1.6	7
234	Magnetic Resonance of Mouse Models of Cardiac Disease. Handbook of Experimental Pharmacology, 2008, , 245-257.	0.9	7

#	ARTICLE	IF	CITATIONS
235	ESR and Optical Studies on the Interaction between cis-Dichlorodiammine Platinum(II) and Tryptophan. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1979, 34, 1015-1018.	0.3	6
236	A new method for the decoupling of multiple-coil NMR Probes. Journal of Magnetic Resonance, 1985, 61, 130-136.	0.5	6
237	31P FLASH NMR Imaging. Magnetic Resonance in Medicine, 1988, 7, 358-363.	1.9	6
238	Real time monitoring of laser-induced thermal changes in cartilage in vitro by using snapshot FLASH. Magnetic Resonance in Medicine, 1997, 37, 805-808.	1.9	6
239	Restoration of the hydraulic system in a resurrection plant: fitting the theory with the facts. New Phytologist, 2001, 151, 314-317.	3.5	6
240	NMR Imaging of the honeybee brain. Journal of Insect Science, 2004, 4, 1-7.	0.9	6
241	FLASH MR imaging: A success story since 25years. Journal of Magnetic Resonance, 2011, 213, 542-543.	1.2	6
242	Probing lactate secretion in tumours with hyperpolarised NMR. NMR in Biomedicine, 2016, 29, 1079-1087.	1.6	6
243	A phase-cycled temperature-sensitive fast spin echo sequence with conductivity bias correction for monitoring of mild RF hyperthermia with PRFS. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 369-380.	1.1	6
244	SYS-FLASH. Systemic saturation in FLASH MR imaging. Magnetic Resonance in Medicine, 1987, 4, 302-305.	1.9	5
245	Introduction to NMR imaging. Trends in Food Science and Technology, 1992, 3, 206-207.	7.8	5
246	Principles and applications of FLASH NMR imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1994, 2, 157-160.	1.1	5
247	T1-insensitive steady state imaging: A framework for purely T2-weighted TrueFISP. Magnetic Resonance in Medicine, 2012, 68, 409-420.	1.9	5
248	Indirect 13C Imaging by Heteronuclear Cross Polarization. Journal of Magnetic Resonance Series B, 1993, 102, 201-203.	1.6	4
249	Simultaneous preparation of inversion recovery T1 and chemical shift selective contrast using snapshot-FLASH-MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1993, 1, 77-82.	1.1	4
250	A Step Ahead on the HIV Collaboratory. Science, 2009, 324, 1264-1265.	6.0	4
251	Visualising the premature brain using 17.6Tesla magnetic resonance imaging. Veterinary Journal, 2009, 182, 215-222.	0.6	4
252	Accelerated multi-snapshot free-breathing mapping based on the dual refocusing echo acquisition mode technique (DREAM): An alternative to measure RF nonuniformity for cardiac MRI. Journal of Magnetic Resonance Imaging, 2019, 49, 499-507.	1.9	4



#	ARTICLE	IF	CITATIONS
253	<sup>19</sup> F-MRI in vivo determination of the partial oxygen pressure in perfluorocarbon-loaded alginate capsules implanted into the peritoneal cavity and different tissues. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 1039-1047.	1.9	4
254	In Vivo Measurement of Oxygen Pressure Using <sup>19</sup> F-NMR Imaging. <i>Advances in Experimental Medicine and Biology</i> , 1996, 388, 53-57.	0.8	4
255	Nitrogen-14 nuclear magnetic resonance imaging of liquid nitrogen near a high-temperature superconductor showing the Meissner effect. <i>Journal of Magnetic Resonance</i> , 1988, 80, 389-393.	0.5	3
256	Finite-Elemente-Berechnungen zur Bestimmung der initialen Zahnbeweglichkeit und experimentelle Verifizierung. <i>Biomedizinische Technik</i> , 1996, 41, 36-37.	0.9	3
257	MR-perfusion measurements: Basic methodology and current status. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 6, 98-99.	1.1	3
258	Unwarping confocal microscopy images of bee brains by nonrigid registration to a magnetic resonance microscopy image. <i>Journal of Biomedical Optics</i> , 2005, 10, 024018.	1.4	3
259	High-performance Composites for Applications in Medical Engineering: Susceptibility Artifacts in Magnetic Resonance Imaging. <i>Journal of Reinforced Plastics and Composites</i> , 2005, 24, 131-146.	1.6	3
260	Assessment of inhibitory potency of antibiotics by MRI: apparent T <sub>2</sub> as a marker of cell growth. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006, 19, 247-255.	1.1	3
261	Increased steady-state levels of alpha-fetoprotein mRNA in hepatocellular carcinoma: an analysis by <i>in situ</i> hybridization. <i>Liver</i> , 1992, 12, 62-68.	0.1	3
262	Current state-of-the-art hyperpolarized <sup>13</sup> C-acetate-to-acetylcarnitine imaging is not indicative of the altered balance between glucose and fatty acid utilization associated with diabetes. <i>Physiological Reports</i> , 2016, 4, e12975.	0.7	3
263	FLASH NMR-Tomographie. <i>Physik in Unserer Zeit</i> , 1989, 20, 48-54.	0.0	2
264	Novel Insights into LV Remodeling After Murine Myocardial Infarction by in vivo Magnetic Resonance Tissue Velocity Mapping. <i>International Journal of Cardiovascular Imaging</i> , 2004, 20, 289-291.	0.2	2
265	Functional Assessment of Isolated Right Heart Failure by High Resolution In-Vivo Cardiovascular Magnetic Resonance in Mice. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2007, 9, 623-627.	1.6	2
266	Long-Distance Water Transport Under Controlled Transpirational Conditions: Minimal-Invasive Investigations by Means of Pressure Probes and NMR Imaging. , 2007, , 251-264.		2
267	Joint Super-Resolution Using Only One Anisotropic Low-Resolution Image per q-Space Coordinate. <i>Mathematics and Visualization</i> , 2014, , 181-191.	0.4	2
268	Concentration of human cardiac <sup>31</sup> P-metabolites determined by SLOOP <sup>31</sup> P-MRS. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 6, 155-6.	1.1	2
269	Surface potential measurements at lipid membranes with pH-indicators. <i>Biophysics of Structure and Mechanism</i> , 1981, 7, 299-299.	1.9	1
270	Increased Alpha-Fetoprotein in Hepatocellular Carcinoma: Hypothesis on the Underlying Molecular Mechanism. <i>Clinical Science</i> , 1990, 78, 22P-22P.	0.0	1



#	ARTICLE	IF	CITATIONS
271	An application of snapshot FLASH MRI in localized NMR spectroscopy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1993, 1, 10-14.	1.1	1
272	Herstellung und Charakterisierung suszeptibilit�tseingestellter Verbundkeramikpulver auf der Basis von Al2O3, TiO2, ZrO2. Biomedizinische Technik, 1995, 40, 175-176.	0.9	1
273	In vitro Bestimmung initialer Zahnbeweglichkeiten in einem optomechanischen Me�aufbau. Biomedizinische Technik, 1996, 41, 316-317.	0.9	1
274	Myocardial perfusion and capillary blood volume during left ventricular remodelling. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 148-149.	1.1	1
275	Basic pulse sequences for fast cardiac MR imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 84-87.	1.1	1
276	MR-perfusion measurements: Basic methodology and current status. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 98-99.	1.1	1
277	High-resolution MR imaging in mice. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 186-188.	1.1	1
278	Contrast enhancement and artifact reduction in magnetization-prepared MR angiography. International Journal of Imaging Systems and Technology, 1999, 10, 266-272.	2.7	1
279	Cardiovascular phenotype characterization in mice by high resolution magnetic resonance imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 11, 10-15.	1.1	1
280	A novel modular probe base design. Concepts in Magnetic Resonance Part B, 2008, 33B, 55-61.	0.3	1
281	Compressed sensing for phase contrast CT. , 2012, , .		1
282	Analysis of 2D NMR relaxation data using Chisholm approximations. Journal of Magnetic Resonance, 2017, 281, 66-74.	1.2	1
283	Deuteration of Hyperpolarized 13 C-Labeled Zymonic Acid Enables Sensitivity-Enhanced Dynamic MRI of pH. ChemPhysChem, 2017, 18, 2421-2421.	1.0	1
284	Overdiscrete echo�planar spectroscopic imaging with correlated higher�order phase correction. Magnetic Resonance in Medicine, 2020, 84, 11-24.	1.9	1
285	Fast Low-Angle Shot NMR. Contributions To Nephrology, 1987, 56, 141-145.	1.1	0
286	NMR-Tomographie mit stimulierten Echos. Biomedizinische Technik, 1985, 30, 183-184.	0.9	0
287	Ultraschnelle Bildgebung mit magnetischer Kernresonanz. Biomedizinische Technik, 1990, 35, 251.	0.9	0
288	The true T1 values of myocardial high-energy phosphates?. Magnetic Resonance in Medicine, 1993, 29, 146-147.	1.9	0

#	ARTICLE	IF	CITATIONS
289	Editorial "a new journal is born. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1993, 1, 1-1.	1.1	0
290	Abstimmung der Suszeptibilitäten metallischer Biomaterialien und des biologischen Gewebes zur Verbesserung der NMR-Bildqualität. Biomedizinische Technik, 1993, 38, 115-116.	0.9	0
291	Computergestützte Erfassung und Visualisierung kieferorthopädischer Behandlungssituationen und Entwicklung eines 3D-Finite Elemente Modells zur Berechnung kieferorthopädischer Zahnbewegungen. Biomedizinische Technik, 1996, 41, 38-39.	0.9	0
292	Myocardial perfusion and capillary blood volume during left ventricular remodelling. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 148-149.	1.1	0
293	Concentration of human cardiac 31P-metabolites determined by SLOOP 31P-MRS. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 155-156.	1.1	0
294	Investigation of complex phased array coil designs for cardiac imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 122-130.	1.1	0
295	MR CAT scan: a modular approach for hybrid imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 183-199.	1.1	0
296	High speed and high resolution cardiac MRI (parallel acquisition techniques & modular imaging). Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 11, 52-54.	1.1	0
297	SUSCEPTIBILITÄTSANGEPASSTE AL <sub>2</sub> O <sub>3</sub> -KERAMIKEN ZUR REDUZIERUNG VON BILDARTEFAKTEN IN DER NMR-BILDGEBUNG. Biomedizinische Technik, 2000, 45, 117-118.	0.9	0
298	Fast three-dimensional sodium imaging of human brain. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2001, 13, 63-69.	1.1	0
299	Microscopic spin tagging (MiST) for flow imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2002, 15, 45-51.	1.1	0
300	An LN <sub>2</sub> cooled toroid resonator. Concepts in Magnetic Resonance, 2004, 21B, 11-18.	1.3	0
301	Dimensionale Kontrastverstärkte Transkranielle Ultraschalldiagnostik. Biomedizinische Technik, 2009, , 371-372.	0.9	0
302	Dynamische RBV-Messungen mit Hilfe der Snapshot-FLASH-Bildgebung-Fehleranalyse und Optimierung der Methode. Biomedizinische Technik, 2009, , 169-170.	0.9	0
303	Oberflächengradientenspulen für oberflächennahe Gradienten. Biomedizinische Technik, 2009, , 177-178.	0.9	0
304	Die Zahnfarbe und ihre spektrale Varianz als Funktion des Ortes. Biomedizinische Technik, 2009, , 307-308.	0.9	0
305	Schnelle spektroskopische NMR-Bildgebung und Anwendungen. Biomedizinische Technik, 2009, , 173-174.	0.9	0
306	Compressed sensing for phase-contrast computed tomography. Proceedings of SPIE, 2012, , .	0.8	0

#	ARTICLE	IF	CITATIONS
307	Rapid dynamic radial MRI via reference image enforced histogram constrained reconstruction. Journal of Magnetic Resonance, 2014, 240, 1-7.	1.2	0
308	$\pm$ -trideuteromethyl[15N]glutamine: A long-lived hyperpolarized perfusion marker. Magnetic Resonance in Medicine, 2016, 76, spcone-spcone.	1.9	0
309	Hyperpolarized $^{13}\text{C}$ -Acetate $\rightarrow$ Acetylcarnitine imaging: Correction of acetate transport into mitochondria. Magnetic Resonance in Medicine, 2017, 77, 12-12.	1.9	0
310	A bridged loop gap resonator (BLGR) for small animal imaging by 1.5 T MRI systems. Review of Scientific Instruments, 2020, 91, 033704.	0.6	0
311	Measurement of Holmium:YAG Laser-Induced Temperature in Musculoskeletal Tissues Using an Experimental MRI Technique. , 2001, , 32-37.		0
312	Magnetic Resonance Fusion Imaging of Chronic Myocardial Ischemia. Lecture Notes in Computer Science, 2003, , 272-277.	1.0	0
313	MRT Imaging of Time Dependent Processes. BeitrÄge Zur Graphischen Datenverarbeitung, 1992, , 74-80.	0.0	0
314	A new in situ hybridization technique for spliced RNA species documents the bone marrow origin of pulmonary macrophages in chronic myelogenous leukemia. Blood, 1992, 80, 2321-2325.	0.6	0