

# Axel Haase

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

306  
papers

13,797  
citations

51  
h-index

109  
g-index

322  
ext. papers

15,076  
ext. citations

4.9  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
306	Correction of motion-induced susceptibility artifacts and B drift during proton resonance frequency shift-based MR thermometry in the pelvis with background field removal methods. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2495-2511	4.4	5
305	A Portable NMR Spectrometer With a Probe Head Combining RF and DC Capabilities to Generate Pulsed-Field Gradients. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 8628-8636	5.2	5
304	A bridged loop gap resonator (BLGR) for small animal imaging by 1.5 T MRI systems. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 033704	1.7	
303	Overdiscrete echo-planar spectroscopic imaging with correlated higher-order phase correction. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 11-24	4.4	1
302	Multichannel digital heteronuclear magnetic resonance biosensor. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 126, 240-248	11.8	20
301	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. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 49, 499-507	5.6	3
300	A phase-cycled temperature-sensitive fast spin echo sequence with conductivity bias correction for monitoring of mild RF hyperthermia with PRFS. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2019</b> , 32, 369-380	2.8	4
299	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. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 407-415	4.4	14
298	High-resolution echo-planar spectroscopic imaging at ultra-high field. <i>NMR in Biomedicine</i> , <b>2018</b> , 31, e39504	10.1	8
297	Microfluidic-Based Synthesis of Magnetic Nanoparticles Coupled with Miniaturized NMR for Online Relaxation Studies. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 9975-9982	7.8	25
296	Hyperpolarized Amino Acid Derivatives as Multivalent Magnetic Resonance pH Sensor Molecules. <i>Sensors</i> , <b>2018</b> , 18,	3.8	24
295	Simultaneous characterization of tumor cellularity and the Warburg effect with PET, MRI and hyperpolarized C-MRSI. <i>Theranostics</i> , <b>2018</b> , 8, 4765-4780	12.1	18
294	Real valued diffusion-weighted imaging using decorrelated phase filtering. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 559-570	4.4	6
293	Imaging of pH in vivo using hyperpolarized C-labelled zymonic acid. <i>Nature Communications</i> , <b>2017</b> , 8, 15126	17.4	69
292	Analysis of 2D NMR relaxation data using Chisholm approximations. <i>Journal of Magnetic Resonance</i> , <b>2017</b> , 281, 66-74	3	1
291	Deuteration of Hyperpolarized <sup>13</sup> C-Labeled Zymonic Acid Enables Sensitivity-Enhanced Dynamic MRI of pH. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2421-2421	3.2	1
290	Deuteration of Hyperpolarized C-Labeled Zymonic Acid Enables Sensitivity-Enhanced Dynamic MRI of pH. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2422-2425	3.2	17

289	T mapping with magnetization-prepared 3D TSE based on a modified BIR-4 preparation. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3773	4.4	11
288	Hyperpolarized C-Acetate-to-acetylcarnitine imaging: Correction of acetate transport into mitochondria. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 12	4.4	
287	Size-dependent MR relaxivities of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 427, 122-126	2.8	15
286	Measurement of extracellular volume and transit time heterogeneity using contrast-enhanced myocardial perfusion MRI in patients after acute myocardial infarction. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 2320-2330	4.4	11
285	Correction of phase errors in quantitative water-fat imaging using a monopolar time-interleaved multi-echo gradient echo sequence. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 984-996	4.4	33
284	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> , <b>2016</b> , 75, 32-41	4.4	20
283	Probing lactate secretion in tumours with hyperpolarised NMR. <i>NMR in Biomedicine</i> , <b>2016</b> , 29, 1079-87	4.4	5
282	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> , <b>2016</b> , 4, e12975	2.6	2
281	β-Deuteriomethyl[ <sup>15</sup> N]glutamine: A long-lived hyperpolarized perfusion marker. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1900-1904	4.4	19
280	Imaging of the lumbar plexus: Optimized refocusing flip angle train design for 3D TSE. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 789-99	5.6	11
279	Bias and precision analysis of diffusional kurtosis imaging for different acquisition schemes. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1684-1696	4.4	10
278	Multiparametric human hepatocellular carcinoma characterization and therapy response evaluation by hyperpolarized ( <sup>13</sup> C) MRSI. <i>NMR in Biomedicine</i> , <b>2016</b> , 29, 952-60	4.4	20
277	Investigation of metabolic changes in STZ-induced diabetic rats with hyperpolarized [1- <sup>13</sup> C]acetate. <i>Physiological Reports</i> , <b>2015</b> , 3, e12474	2.6	18
276	Detection of molecules and cells using nuclear magnetic resonance with magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 380, 271-275	2.8	14
275	Quantified pH imaging with hyperpolarized ( <sup>13</sup> C) bicarbonate. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 2274-82	4.4	34
274	Parameterization of hyperpolarized ( <sup>13</sup> C) bicarbonate-dissolution dynamic nuclear polarization. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2015</b> , 28, 591-8	2.8	10
273	Metabolic imaging of hyperpolarized [1-( <sup>13</sup> C)]acetate and [1-( <sup>13</sup> C)]acetylcarnitine - investigation of the influence of dobutamine induced stress. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 1011-8	4.4	27
272	Comparison of acquisition schemes for hyperpolarised <sup>13</sup> C imaging. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 715-25	4.4	44

271	A 16-channel MR coil for simultaneous PET/MR imaging in breast cancer. <i>European Radiology</i> , <b>2015</b> , 25, 1154-61	8	37
270	q-Space Deep Learning for Twelve-Fold Shorter and Model-Free Diffusion MRI Scans. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 37-44	0.9	11
269	Rapid dynamic radial MRI via reference image enforced histogram constrained reconstruction. <i>Journal of Magnetic Resonance</i> , <b>2014</b> , 240, 1-7	3	
268	Bolus tracking for improved metabolic imaging of hyperpolarised compounds. <i>Journal of Magnetic Resonance</i> , <b>2014</b> , 243, 40-6	3	16
267	Apparent rate constant mapping using hyperpolarized [1-(13)C]pyruvate. <i>NMR in Biomedicine</i> , <b>2014</b> , 27, 1256-65	4.4	37
266	Multisite Kinetic Modeling of (13)C Metabolic MR Using [1-(13)C]Pyruvate. <i>Radiology Research and Practice</i> , <b>2014</b> , 2014, 871619	2.3	12
265	Joint Super-Resolution Using Only One Anisotropic Low-Resolution Image per q-Space Coordinate. <i>Mathematics and Visualization</i> , <b>2014</b> , 181-191	0.6	1
264	Saturation-recovery metabolic-exchange rate imaging with hyperpolarized [1-13C] pyruvate using spectral-spatial excitation. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1209-16	4.4	66
263	Iterative reconstruction for few-view grating-based phase-contrast CT An in vitro mouse model. <i>Europhysics Letters</i> , <b>2013</b> , 102, 48001	1.6	9
262	Multimodal assessment of in vivo metabolism with hyperpolarized [1-13C]MR spectroscopy and 18F-FDG PET imaging in hepatocellular carcinoma tumor-bearing rats. <i>Journal of Nuclear Medicine</i> , <b>2013</b> , 54, 1113-9	8.9	26
261	Diffusion of hyperpolarized (13) C-metabolites in tumor cell spheroids using real-time NMR spectroscopy. <i>NMR in Biomedicine</i> , <b>2013</b> , 26, 557-68	4.4	38
260	Magnetic resonance microscopy of prenatal dolphins (Mammalia, Odontoceti, Delphinidae) □ Ontogenetic and phylogenetic implications. <i>Zoologischer Anzeiger</i> , <b>2012</b> , 251, 115-130	1.1	8
259	Effects of pyruvate dose on in vivo metabolism and quantification of hyperpolarized □□C spectra. <i>NMR in Biomedicine</i> , <b>2012</b> , 25, 142-51	4.4	22
258	Non-contrast-enhanced MRI of the pulmonary blood volume using two-compartment-modeled T1-relaxation. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 36, 397-404	5.6	10
257	IDEAL spiral CSI for dynamic metabolic MR imaging of hyperpolarized [1-13C]pyruvate. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 8-16	4.4	125
256	T-one insensitive steady state imaging: a framework for purely T2-weighted TrueFISP. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 409-20	4.4	5
255	Magnetic nanoparticles in magnetic resonance imaging and diagnostics. <i>Pharmaceutical Research</i> , <b>2012</b> , 29, 1165-79	4.5	132
254	Compressed sensing for phase contrast CT <b>2012</b> ,		1

253	Non-invasive lipid measurement in living insects using NMR microscopy. <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 3137-41	3	10
252	Exploitation of intestinal colonization-inhibition between salmonella organisms for live vaccines in poultry: potential and limitations. <i>Zoonoses and Public Health</i> , <b>2011</b> , 58, 540-8	2.9	27
251	FLASH MR imaging: a success story since 25 years. <i>Journal of Magnetic Resonance</i> , <b>2011</b> , 213, 542-3	3	4
250	Dimensionale Kontrastverstärkte Transkranielle Ultraschalldiagnostik. <i>Biomedizinische Technik</i> , <b>2009</b> , 371-372	1.3	
249	A step ahead on the HIV collaboratory. <i>Science</i> , <b>2009</b> , 324, 1264-5	33.3	4
248	Dynamische RBV-Messungen mit Hilfe der Snapshot-FLASH-Bildgebung-Fehleranalyse und Optimierung der Methode. <i>Biomedizinische Technik</i> , <b>2009</b> , 169-170	1.3	
247	Oberflächengradientenspulen für oberflächennahe Gradienten. <i>Biomedizinische Technik</i> , <b>2009</b> , 177-178	1.3	
246	Schnelle spektroskopische NMR-Bildgebung und Anwendungen. <i>Biomedizinische Technik</i> , <b>2009</b> , 173-174	1.3	
245	Visualising the premature brain using 17.6 Tesla magnetic resonance imaging. <i>Veterinary Journal</i> , <b>2009</b> , 182, 215-22	2.5	4
244	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> , <b>2009</b> , 22, 159-66	2.8	19
243	A 1H NMR study of water flow in Phaseolus vulgaris L. roots treated with nitrate or ammonium. <i>Plant and Soil</i> , <b>2009</b> , 319, 307-321	4.2	7
242	A novel modular probe base design. <i>Concepts in Magnetic Resonance Part B</i> , <b>2008</b> , 33B, 55-61	2.3	1
241	Diffusion generated T1 and T2 contrast. <i>Journal of Magnetic Resonance</i> , <b>2008</b> , 192, 139-50	3	9
240	Magnetic resonance of mouse models of cardiac disease. <i>Handbook of Experimental Pharmacology</i> , <b>2008</b> , 245-57	3.2	6
239	Functional assessment of isolated right heart failure by high resolution in-vivo cardiovascular magnetic resonance in mice. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2007</b> , 9, 623-7	6.9	1
238	Relaxation Measurements in Imaging Studies <b>2007</b> ,		1
237	Long-Distance Water Transport Under Controlled Transpirational Conditions: Minimal-Invasive Investigations by Means of Pressure Probes and NMR Imaging <b>2007</b> , 251-264		1
236	A simple geometrical description of the TrueFISP ideal transient and steady-state signal. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 177-86	4.4	32

235	In vivo quantitative three-dimensional motion mapping of the murine myocardium with PC-MRI at 17.6 T. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 1058-64	4.4	30
234	Assessment of inhibitory potency of antibiotics by MRI: apparent T2 as a marker of cell growth. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2006</b> , 19, 247-55	2.8	3
233	In vivo high-resolution MR imaging of neuropathologic changes in the injured rat spinal cord. <i>American Journal of Neuroradiology</i> , <b>2006</b> , 27, 598-604	4.4	33
232	Improved cardiac sodium MR imaging by density-weighted phase-encoding. <i>Journal of Magnetic Resonance Imaging</i> , <b>2005</b> , 21, 78-81	5.6	12
231	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> , <b>2005</b> , 53, 584-92	4.4	74
230	<sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N backbone and sidechain resonance assignment of Mip(77-213) the PPIase domain of the Legionella pneumophila Mip protein. <i>Journal of Biomolecular NMR</i> , <b>2005</b> , 31, 77-8	3	4
229	Unwarping confocal microscopy images of bee brains by nonrigid registration to a magnetic resonance microscopy image. <i>Journal of Biomedical Optics</i> , <b>2005</b> , 10, 024018	3.5	3
228	High-performance Composites for Applications in Medical Engineering: Susceptibility Artifacts in Magnetic Resonance Imaging. <i>Journal of Reinforced Plastics and Composites</i> , <b>2005</b> , 24, 131-146	2.9	3
227	Experimental autoimmune encephalomyelitis in the rat spinal cord: lesion detection with high-resolution MR microscopy at 17.6 T. <i>American Journal of Neuroradiology</i> , <b>2005</b> , 26, 19-25	4.4	12
226	NMR imaging of the honeybee brain. <i>Journal of Insect Science</i> , <b>2004</b> , 4, 7	2	26
225	NMR Imaging of the honeybee brain. <i>Journal of Insect Science</i> , <b>2004</b> , 4, 1-7		5
224	Myocardial perfusion measurements by spin-labeling under different vasodynamic states. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2004</b> , 6, 509-16	6.9	18
223	Water ascent in tall trees: does evolution of land plants rely on a highly metastable state?. <i>New Phytologist</i> , <b>2004</b> , 162, 575-615	9.8	135
222	Novel insights into LV remodeling after murine myocardial infarction by in vivo magnetic resonance tissue velocity mapping. <i>International Journal of Cardiovascular Imaging</i> , <b>2004</b> , 20, 289-91		0
221	High-resolution MR imaging of the rat spinal cord in vivo in a wide-bore magnet at 17.6 Tesla. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2004</b> , 17, 353-8	2.8	26
220	Impact of hypoxia and the metabolic microenvironment on radiotherapy of solid tumors. Introduction of a multi-institutional research project. <i>Strahlentherapie Und Onkologie</i> , <b>2004</b> , 180, 609-15	4.3	20
219	An LN2 cooled toroid resonator. <i>Concepts in Magnetic Resonance</i> , <b>2004</b> , 21B, 11-18		
218	RF flux guides for excitation and reception RF in <sup>31</sup> P spectroscopic and imaging experiments at 2 Tesla. <i>Concepts in Magnetic Resonance</i> , <b>2004</b> , 23B, 44-49		9

217	Inversion recovery TrueFISP: quantification of T(1), T(2), and spin density. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 661-7	4.4	191
216	Preamplified planar microcoil on GaAs substrates for microspectroscopy. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 4855-4857	1.7	17
215	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> , <b>2003</b> , 285, H2712-21	5.2	20
214	Time course of right ventricular remodeling in rats with experimental myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2003</b> , 284, H241-8	5.2	26
213	In vivo assessment of absolute perfusion in the murine skeletal muscle with spin labeling MRI. Magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2003</b> , 17, 147-52	5.6	26
212	Quantitative assessment of myocardial perfusion with a spin-labeling technique: preliminary results in patients with coronary artery disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2003</b> , 18, 555-60	5.6	36
211	In vivo time-resolved quantitative motion mapping of the murine myocardium with phase contrast MRI. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 315-21	4.4	45
210	Visualization of myocardial microstructure using high-resolution T*2 imaging at high magnetic field. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 371-5	4.4	28
209	High-resolution MRI with cardiac and respiratory gating allows for accurate in vivo atherosclerotic plaque visualization in the murine aortic arch. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 69-74	4.4	79
208	Time-resolved flow measurement in the isolated rat heart: characterization of left coronary artery stenosis. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 449-52	4.4	8
207	Investigation of the microstructure of the isolated rat heart: a comparison between T*2- and diffusion-weighted MRI. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 1144-50	4.4	17
206	NMR-microscopy with TrueFISP at 11.75T. <i>Journal of Magnetic Resonance</i> , <b>2003</b> , 161, 252-7	3	13
205	Cardiac magnetic resonance imaging in small animal models of human heart failure. <i>Medical Image Analysis</i> , <b>2003</b> , 7, 369-75	15.4	62
204	The impact of lipid distribution, composition and mobility on xylem water refilling of the resurrection plant <i>Myrothamnus flabellifolia</i> . <i>New Phytologist</i> , <b>2003</b> , 159, 487-505	9.8	45
203	Flow encoded NMR spectroscopy for quantification of metabolite flow in intact plants. <i>Journal of Magnetic Resonance</i> , <b>2003</b> , 161, 70-6	3	6
202	Resolution enhancement in in vivo NMR spectroscopy: detection of intermolecular zero-quantum coherences. <i>Journal of Magnetic Resonance</i> , <b>2003</b> , 161, 265-74	3	43
201	Quantitative tissue perfusion measurements in head and neck carcinoma patients before and during radiation therapy with a non-invasive MR imaging spin-labeling technique. <i>Radiotherapy and Oncology</i> , <b>2003</b> , 67, 27-34	5.3	41
200	Microvascular adaptation to coronary stenosis in the rat heart in vivo: a serial magnetic resonance imaging study. <i>Microvascular Research</i> , <b>2003</b> , 66, 173-82	3.7	8



199	Cardiac hypertrophy is associated with decreased eNOS expression in angiotensin AT2 receptor-deficient mice. <i>Hypertension</i> , <b>2003</b> , 42, 1177-82	8.5	69
198	A coil combination for magnetic resonance perfusion imaging of mice in vivo at 7 T. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 2843-2848	1.7	6
197	Magnetic Resonance Fusion Imaging of Chronic Myocardial Ischemia. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 272-277	0.9	
196	Abdominal imaging with a modular combination of spin and gradient echoes. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 425-32	4.4	10
195	Determination of regional blood volume and intra-extracapillary water exchange in human myocardium using Feruglose: First clinical results in patients with coronary artery disease. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 1013-6	4.4	28
194	Gradient system providing continuously variable field characteristics. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 800-8	4.4	24
193	Generalized autocalibrating partially parallel acquisitions (GRAPPA). <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 1202-10	4.4	35 <sup>81</sup>
192	Magnetization transfer short inversion time inversion recovery enhanced 1H MRI of the human lung. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2002</b> , 15, 10-7	2.8	5
191	Implications of mucilage on pressure bomb measurements and water lifting in trees rooting in high-salinity water. <i>Trees - Structure and Function</i> , <b>2002</b> , 16, 100-111	2.6	23
190	What are the driving forces for water lifting in the xylem conduit?. <i>Physiologia Plantarum</i> , <b>2002</b> , 114, 327-335	4.6	36
189	Magnetization transfer short inversion time inversion recovery enhanced 1H MRI of the human lung. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2002</b> , 15, 10-17	2.8	8
188	Microscopic spin tagging (MiST) for flow imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2002</b> , 15, 45-51	2.8	
187	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> , <b>2002</b> , 283, H1065-71	5.2	63
186	Effect of transmyocardial laser revascularization on myocardial perfusion and left ventricular remodeling after myocardial infarction in rats. <i>Radiology</i> , <b>2002</b> , 225, 487-93	20.5	9
185	Impact of hydroxymethylglutaryl coenzyme a reductase inhibition on left ventricular remodeling after myocardial infarction: an experimental serial cardiac magnetic resonance imaging study. <i>Journal of the American College of Cardiology</i> , <b>2002</b> , 40, 1695-700	15.1	41
184	A novel class of amitogenic alginate microcapsules for long-term immunoisolated transplantation. <i>Annals of the New York Academy of Sciences</i> , <b>2001</b> , 944, 199-215	6.5	67
183	In vivo 19F NMR chemical-shift imaging of <i>Ancistrocladus</i> species. <i>Protoplasma</i> , <b>2001</b> , 218, 134-43	3.4	6
182	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. <i>Plant, Cell and Environment</i> , <b>2001</b> , 24, 491-503	8.4	102



181	Fast three-dimensional sodium imaging of human brain. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2001</b> , 13, 63-69	2.8	
180	Restoration of the hydraulic system in a resurrection plant: fitting the theory with the facts. <i>New Phytologist</i> , <b>2001</b> , 151, 314-317	9.8	4
179	Rapid quantitative lung (1)H T(1) mapping. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 795-9	5.6	82
178	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 547-55	5.6	66
177	VD-AUTO-SMASH imaging. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 1066-74	4.4	181
176	Perfusion imaging using spin-labeling methods: contrast-to-noise comparison in functional MRI applications. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 172-82	4.4	27
175	Myocardial perfusion imaging using a non-contrast agent MR imaging technique. <i>International Journal of Cardiovascular Imaging</i> , <b>2001</b> , 17, 123-32		23
174	Fast high-resolution magnetic resonance imaging demonstrates fractality of myocardial perfusion in microscopic dimensions. <i>Circulation Research</i> , <b>2001</b> , 88, 340-6	15.7	53
173	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> , <b>2001</b> , 3, 311-5	6.9	21
172	Serial magnetic resonance imaging of microvascular remodeling in the infarcted rat heart. <i>Circulation</i> , <b>2001</b> , 103, 1564-9	16.7	46
171	Vascular hypertrophy and increased P70S6 kinase in mice lacking the angiotensin II AT(2) receptor. <i>Circulation</i> , <b>2001</b> , 104, 2602-7	16.7	50
170	Double tuned <sup>23</sup> Na <sup>1</sup> H nuclear magnetic resonance birdcage for application on mice in vivo. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 2508-2510	1.7	6
169	Combined high-speed NMR imaging of perfusion and microscopic coronary conductance vessels in the isolated rat heart. <i>Microvascular Research</i> , <b>2001</b> , 62, 327-34	3.7	8
168	Dobutamine-stress magnetic resonance microimaging in mice : acute changes of cardiac geometry and function in normal and failing murine hearts. <i>Circulation Research</i> , <b>2001</b> , 88, 563-9	15.7	133
167	Measurement of Holmium:YAG Laser-Induced Temperature in Musculoskeletal Tissues Using an Experimental MRI Technique <b>2001</b> , 32-37		
166	Portable nuclear magnetic resonance imaging system. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 4257	1.7	35
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23	Rapid three-dimensional MR imaging using the FLASH technique. <i>Journal of Computer Assisted Tomography</i> , <b>1986</b> , 10, 363-8	2.2	195
22	Nuclear magnetic resonance imaging of mummified corpses. <i>American Journal of Physical Anthropology</i> , <b>1986</b> , 70, 27-8	2.5	23
21	Rapid NMR imaging of dynamic processes using the FLASH technique. <i>Magnetic Resonance in Medicine</i> , <b>1986</b> , 3, 321-7	4.4	315
20	Multipurpose NMR imaging using stimulated echoes. <i>Magnetic Resonance in Medicine</i> , <b>1986</b> , 3, 554-61	4.4	11

19	Localization of unaffected spins in NMR imaging and spectroscopy (LOCUS spectroscopy). <i>Magnetic Resonance in Medicine</i> , <b>1986</b> , 3, 963-9	4.4	53
18	FLASH imaging. Rapid NMR imaging using low flip-angle pulses. <i>Journal of Magnetic Resonance</i> , <b>1986</b> , 67, 258-266		207
17	Three-dimensional FLASH MR imaging of thorax and abdomen without triggering or gating. <i>Magnetic Resonance Imaging</i> , <b>1986</b> , 4, 381-386	3.3	16
16	Dynamic digital subtraction imaging using fast low-angle shot MR movie sequence. <i>Radiology</i> , <b>1986</b> , 160, 537-41	20.5	40
15	Stimulated echo imaging. <i>Journal of Magnetic Resonance</i> , <b>1985</b> , 64, 81-93		23
14	Multiple chemical-shift-selective NMR imaging using stimulated echoes. <i>Journal of Magnetic Resonance</i> , <b>1985</b> , 64, 94-102		10
13	NMR imaging of spin-lattice relaxation using stimulated echoes. <i>Journal of Magnetic Resonance</i> , <b>1985</b> , 65, 481-490		1
12	A new method for the decoupling of multiple-coil NMR Probes. <i>Journal of Magnetic Resonance</i> , <b>1985</b> , 61, 130-136		1
11	Rapid NMR imaging using stimulated echoes. <i>Journal of Magnetic Resonance</i> , <b>1985</b> , 65, 130-135		12
10	Chemical shift selective MR imaging using a whole-body magnet. <i>Radiology</i> , <b>1985</b> , 156, 441-4	20.5	125
9	<sup>1</sup> H NMR chemical shift selective (CHESS) imaging. <i>Physics in Medicine and Biology</i> , <b>1985</b> , 30, 341-4	3.8	856
8	Regional physiological functions depicted by sequences of rapid magnetic resonance images. <i>Lancet, The</i> , <b>1985</b> , 2, 893	40	33
7	Chemical-shift-selective magnetic-resonance imaging of avascular necrosis of the femoral head. <i>Lancet, The</i> , <b>1985</b> , 1, 370-1	40	11
6	The influence of experimental parameters in surface-coil NMR. <i>Journal of Magnetic Resonance</i> , <b>1984</b> , 56, 401-412		11
5	Spatial localization of high resolution <sup>31</sup> P spectra with a surface coil. <i>Journal of Magnetic Resonance</i> , <b>1983</b> , 55, 164-169		4
4	SURFACE COIL NMR IN DIAGNOSIS. <i>Lancet, The</i> , <b>1983</b> , 322, 1082-1083	40	9
3	Surface potential measurements at lipid membranes with pH-indicators. <i>Biophysics of Structure and Mechanism</i> , <b>1981</b> , 7, 299-299		
2	ESR and Optical Studies on the Interaction between cis-Dichlorodiammine Platinum(II) and Tryptophan. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>1979</b> , 34, 1015-1018 <sup>1</sup>		6

1 Design, fabrication and test of the klystrino

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