

# Axel Haase

## List of Publications by Citations

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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	Generalized autocalibrating partially parallel acquisitions (GRAPPA). <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 1202-10	4.4	3581
305	1H NMR chemical shift selective (CHESS) imaging. <i>Physics in Medicine and Biology</i> , <b>1985</b> , 30, 341-4	3.8	856
304	Snapshot FLASH MRI. Applications to T1, T2, and chemical-shift imaging. <i>Magnetic Resonance in Medicine</i> , <b>1990</b> , 13, 77-89	4.4	628
303	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
302	Partially parallel imaging with localized sensitivities (PILS). <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 602-9	4.4	244
301	FLASH imaging. Rapid NMR imaging using low flip-angle pulses. <i>Journal of Magnetic Resonance</i> , <b>1986</b> , 67, 258-266		207
300	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
299	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
298	VD-AUTO-SMASH imaging. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 1066-74	4.4	181
297	Magnetic resonance microimaging for noninvasive quantification of myocardial function and mass in the mouse. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 43-8	4.4	158
296	Theoretical evaluation and comparison of fast chemical shift imaging methods. <i>Journal of Magnetic Resonance</i> , <b>1997</b> , 129, 145-60	3	143
295	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
294	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
293	Magnetic nanoparticles in magnetic resonance imaging and diagnostics. <i>Pharmaceutical Research</i> , <b>2012</b> , 29, 1165-79	4.5	132
292	Developmental changes of cardiac function and mass assessed with MRI in neonatal, juvenile, and adult mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2000</b> , 278, H652-7	5.2	130
291	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
290	Chemical shift selective MR imaging using a whole-body magnet. <i>Radiology</i> , <b>1985</b> , 156, 441-4	20.5	125

289	Inversion recovery snapshot FLASH MR imaging. <i>Journal of Computer Assisted Tomography</i> , <b>1989</b> , 13, 1036-40	2.2	124
288	In vivo quantitative mapping of cardiac perfusion in rats using a noninvasive MR spin-labeling method. <i>Journal of Magnetic Resonance Imaging</i> , <b>1998</b> , 8, 1240-5	5.6	109
287	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
286	Quantitative magnetic resonance imaging of perfusion using magnetic labeling of water proton spins within the detection slice. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 540-6	4.4	93
285	Fast T1 mapping on a whole-body scanner. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 206-9	4.4	91
284	T1 maps by K-space reduced snapshot-FLASH MRI. <i>Journal of Computer Assisted Tomography</i> , <b>1992</b> , 16, 327-32	2.2	87
283	In vivo MRI and its histological correlates in acute adoptive transfer experimental allergic encephalomyelitis. Quantification of inflammation and oedema. <i>Brain</i> , <b>1996</b> , 119 ( Pt 1), 239-48	11.2	85
282	Quantification of regional blood volumes by rapid T1 mapping. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 29, 709-12	4.4	85
281	NMR probeheads for in vivo applications. <i>Concepts in Magnetic Resonance</i> , <b>2000</b> , 12, 361-388		84
280	Xylem water transport: is the available evidence consistent with the cohesion theory?. <i>Plant, Cell and Environment</i> , <b>1994</b> , 17, 1169-1181	8.4	84
279	Rapid quantitative lung (1)H T(1) mapping. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 795-9	5.6	82
278	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. <i>Radiology</i> , <b>2000</b> , 215, 189-97	20.5	81
277	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
276	Hydrogel-based non-autologous cell and tissue therapy. <i>BioTechniques</i> , <b>2000</b> , 29, 564-72, 574, 576 passim.	5	79
275	Quantitative magnetic resonance imaging of capillary water permeability and regional blood volume with an intravascular MR contrast agent. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 769-77	4.4	77
274	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
273	High Molecular Weight Organic Compounds in the Xylem Sap of Mangroves: Implications for Long-Distance Water Transport. <i>Botanica Acta</i> , <b>1994</b> , 107, 218-229		71
272	Quantification of T1 values by SNAPSHOT-FLASH NMR imaging. <i>Journal of Magnetic Resonance</i> , <b>1992</b> , 96, 608-612		71

271	Motion-adapted gating based on k-space weighting for reduction of respiratory motion artifacts. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 322-33	4.4	70
270	Imaging of pH in vivo using hyperpolarized C-labelled zymonic acid. <i>Nature Communications</i> , <b>2017</b> , 8, 15126	17.4	69
269	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
268	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> , <b>1996</b> , 35, 43-55	4.4	69
267	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
266	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
265	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
264	Concentrations of human cardiac phosphorus metabolites determined by SLOOP 31P NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 657-63	4.4	65
263	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
262	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
261	<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> , <b>1999</b> , 42, 1039-47	4.4	59
260	Nuclear-magnetic-resonance imaging of leaves of <i>Mesembryanthemum crystallinum</i> L. plants grown at high salinity. <i>Planta</i> , <b>1989</b> , 178, 524-30	4.7	58
259	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
258	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
257	Magnetic resonance imaging of coronary arteries and heart valves in a living mouse: techniques and preliminary results. <i>Journal of Magnetic Resonance</i> , <b>2000</b> , 146, 290-6	3	52
256	Localized spectroscopy from anatomically matched compartments: improved sensitivity and localization for cardiac 31P MRS in humans. <i>Journal of Magnetic Resonance</i> , <b>1998</b> , 134, 287-99	3	51
255	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
254	Dynamic studies of phloem and xylem flow in fully differentiated plants by fast nuclear-magnetic-resonance microimaging. <i>Protoplasma</i> , <b>1999</b> , 209, 126-31	3.4	49

253	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. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 917-23	4.4	46
252	Serial magnetic resonance imaging of microvascular remodeling in the infarcted rat heart. <i>Circulation</i> , <b>2001</b> , 103, 1564-9	16.7	46
251	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
250	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
249	Quantitative NMR microscopy on intact plants. <i>Magnetic Resonance Imaging</i> , <b>1995</b> , 13, 447-55	3.3	45
248	In vivo measurement of partial oxygen pressure in large vessels and in the reticuloendothelial system using fast 19F-MRI. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 738-45	4.4	45
247	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
246	Fast NMR flow measurements in plants using FLASH imaging. <i>Journal of Magnetic Resonance</i> , <b>1999</b> , 137, 29-32	3	44
245	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
244	Xylem conduits of a resurrection plant contain a unique lipid lining and refill following a distinct pattern after desiccation. <i>New Phytologist</i> , <b>2000</b> , 148, 239-55	9.8	43
243	Fabrication of NMR <sup>13</sup> C microensors for nanoliter sample volumes. <i>Microelectronic Engineering</i> , <b>2000</b> , 53, 517-519	2.5	43
242	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
241	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
240	Dynamic digital subtraction imaging using fast low-angle shot MR movie sequence. <i>Radiology</i> , <b>1986</b> , 160, 537-41	20.5	40
239	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> , <b>1992</b> , 99, 186-96	6.6	40
238	Diffusion of hyperpolarized ( <sup>13</sup> 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
237	Measurement of Water Flow in the Xylem Vessels of Intact Maize Plants using Flow-Sensitive NMR Imaging. <i>Botanica Acta</i> , <b>1996</b> , 109, 184-186		38
236	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

235	Apparent rate constant mapping using hyperpolarized [1-(13)C]pyruvate. <i>NMR in Biomedicine</i> , <b>2014</b> , 27, 1256-65	4.4	37
234	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
233	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
232	Plant histochemistry by correlation peak imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1995</b> , 92, 11912-5	11.5	36
231	Portable nuclear magnetic resonance imaging system. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 4257	1.7	35
230	In vivo assessment of cardiac remodeling after myocardial infarction in rats by cine-magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2000</b> , 2, 171-80	6.9	35
229	Magnetization-Prepared NMR Microscopy. <i>Journal of Magnetic Resonance Series A</i> , <b>1993</b> , 105, 230-233		35
228	Quantified pH imaging with hyperpolarized (13) C-bicarbonate. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 2274-82	4.4	34
227	Partial inhibition of AT-EAE by an antibody to ICAM-1: clinico-histological and MRI studies. <i>Journal of Neuroimmunology</i> , <b>1996</b> , 69, 85-93	3.5	34
226	Molecular Diffusion in NMR Microscopy. <i>Journal of Magnetic Resonance Series B</i> , <b>1994</b> , 103, 162-167		34
225	Cardiac and vascular imaging with an MR snapshot technique. <i>Radiology</i> , <b>1990</b> , 177, 527-32	20.5	34
224	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
223	Magnetic resonance imaging investigation of blood-brain barrier damage in adoptive transfer experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , <b>1993</b> , 46, 199-206	3.5	33
222	Regional physiological functions depicted by sequences of rapid magnetic resonance images. <i>Lancet, The</i> , <b>1985</b> , 2, 893	4.0	33
221	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
220	Perfluoro-15-crown-5-ether labelled macrophages in adoptive transfer experimental allergic encephalomyelitis. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , <b>1997</b> , 25, 243-54		32
219	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
218	Non-invasive evaluation of the location, the functional integrity and the oxygen supply of implants: 19F nuclear magnetic resonance imaging of perfluorocarbon-loaded Ba2+-alginate beads. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , <b>2000</b> , 28, 129-46		32

217	Structure of the invertebrate fauna in salt marshes of the Wadden Sea coast of Schleswig-Holstein influenced by sheep-grazing. <i>Helgoländer Meeresuntersuchungen</i> , <b>1995</b> , 49, 563-589		32
216	The kinetics of sucrose concentration in the phloem of individual vascular bundles of the <i>Ricinus communis</i> seedling measured by nuclear magnetic resonance microimaging. <i>Planta</i> , <b>1998</b> , 205, 132-139	4.7	31
215	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
214	Perfusion-corrected mapping of cardiac regional blood volume in rats in vivo. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 500-6	4.4	29
213	Correlation-peak imaging. <i>Journal of Magnetic Resonance Series B</i> , <b>1996</b> , 112, 141-50		29
212	Three-dimensional <sup>31</sup> P magnetic resonance spectroscopic imaging of regional high-energy phosphate metabolism in injured rat heart. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 731-41	4.4	28
211	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
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	Metabolic imaging of hyperpolarized [1-(13) C]acetate and [1-(13) 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
208	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
207	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
206	Fast T2-mapping with snapshot flash imaging. <i>Magnetic Resonance Imaging</i> , <b>1995</b> , 13, 633-9	3.3	27
205	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
204	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
203	NMR imaging of the honeybee brain. <i>Journal of Insect Science</i> , <b>2004</b> , 4, 7	2	26
202	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
201	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
200	A superconducting probehead applicable for nuclear magnetic resonance microscopy at 7 T. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 2708-2712	1.7	26

199	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
198	Functional magnetic resonance imaging in intact plants--quantitative observation of flow in plant vessels. <i>Magnetic Resonance Imaging</i> , <b>1998</b> , 16, 331-8	3.3	25
197	Altered energy metabolism after myocardial infarction assessed by 31P-MR-spectroscopy in humans. <i>European Radiology</i> , <b>2000</b> , 10, 1323-8	8	25
196	Hyperpolarized Amino Acid Derivatives as Multivalent Magnetic Resonance pH Sensor Molecules. <i>Sensors</i> , <b>2018</b> , 18,	3.8	24
195	Gradient system providing continuously variable field characteristics. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 800-8	4.4	24
194	Xylem pressure response in maize roots subjected to osmotic stress: determination of radial reflection coefficients by use of the xylem pressure probe. <i>Plant, Cell and Environment</i> , <b>1995</b> , 18, 906-912	8.4	24
193	Flow suppression in rapid FLASH NMR images. <i>Magnetic Resonance in Medicine</i> , <b>1987</b> , 4, 372-7	4.4	24
192	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
191	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
190	High-resolution one- and two-dimensional 1H MRS of human brain tumor and normal glial cells. <i>NMR in Biomedicine</i> , <b>1994</b> , 7, 111-20	4.4	23
189	Nuclear magnetic resonance imaging of mummified corpses. <i>American Journal of Physical Anthropology</i> , <b>1986</b> , 70, 27-8	2.5	23
188	Stimulated echo imaging. <i>Journal of Magnetic Resonance</i> , <b>1985</b> , 64, 81-93		23
187	Effects of pyruvate dose on in vivo metabolism and quantification of hyperpolarized 13C spectra. <i>NMR in Biomedicine</i> , <b>2012</b> , 25, 142-51	4.4	22
186	Fast 19F-NMR imaging in vivo using FLASH-MRI. <i>Magnetic Resonance Imaging</i> , <b>1994</b> , 12, 149-53	3.3	22
185	High-resolution MR imaging in mice. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>1998</b> , 6, 186-8	2.8	21
184	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
183	23Na and (1)H NMR microimaging of intact plants. <i>Journal of Magnetic Resonance</i> , <b>2000</b> , 144, 297-304	3	21
182	Xylem Flow and its Driving Forces in a Tropical Liana: Concomitant Flow-Sensitive NMR Imaging and Pressure Probe Measurements. <i>Plant Biology</i> , <b>2000</b> , 2, 579-582	3.7	21



181	Quantitative Measurement of Sucrose Distribution in Ricinus communis Seedlings by Chemical-Shift Microscopy. <i>Journal of Magnetic Resonance Series B</i> , <b>1994</b> , 105, 249-252		21
180	Fast inversion recovery T1 contrast and chemical shift contrast in high-resolution snapshot FLASH MR images. <i>Magnetic Resonance Imaging</i> , <b>1992</b> , 10, 1-6	3.3	21
179	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
178	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
177	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
176	High-resolution diffusion imaging using a radial turbo-spin-echo sequence: implementation, eddy current compensation, and self-navigation. <i>Journal of Magnetic Resonance</i> , <b>2000</b> , 144, 243-54	3	20
175	Resistivity of red blood cells against high-intensity, short-duration electric field pulses induced by chelating agents. <i>Journal of Membrane Biology</i> , <b>1999</b> , 170, 121-33	2.3	20
174	3D-snapshot flash NMR imaging of the human heart. <i>Magnetic Resonance Imaging</i> , <b>1990</b> , 8, 377-9	3.3	20
173	Multiparametric human hepatocellular carcinoma characterization and therapy response evaluation by hyperpolarized (13) C MRSI. <i>NMR in Biomedicine</i> , <b>2016</b> , 29, 952-60	4.4	20
172	Multichannel digital heteronuclear magnetic resonance biosensor. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 126, 240-248	11.8	20
171	Trideuteromethyl[15N]glutamine: A long-lived hyperpolarized perfusion marker. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1900-1904	4.4	19
170	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
169	Direct measurement of spin-lattice relaxation times of phosphorus metabolites in human myocardium. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 26, 300-7	4.4	19
168	Investigation of metabolic changes in STZ-induced diabetic rats with hyperpolarized [1-13C]acetate. <i>Physiological Reports</i> , <b>2015</b> , 3, e12474	2.6	18
167	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
166	Radioiodine therapy in Graves' hyperthyroidism: determination of individual optimum target dose. <i>Experimental and Clinical Endocrinology and Diabetes</i> , <b>2000</b> , 108, 133-7	2.3	18
165	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
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