

Peter R Luijten

List of Publications by Citations

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228
papers

7,818
citations

47
h-index

77
g-index

237
ext. papers

9,114
ext. citations

5.4
avg, IF

5.99
L-index

#	Paper	IF	Citations
228	Clinical proton MR spectroscopy in central nervous system disorders. <i>Radiology</i> , 2014 , 270, 658-79	20.5	381
227	Glutamate in schizophrenia: a focused review and meta-analysis of ¹ H-MRS studies. <i>Schizophrenia Bulletin</i> , 2013 , 39, 120-9	1.3	327
226	Diffusion-weighted whole-body imaging with background body signal suppression (DWIBS): features and potential applications in oncology. <i>European Radiology</i> , 2008 , 18, 1937-52	8	311
225	Simultaneous MRI diffusion and perfusion imaging for tumor delineation in prostate cancer patients. <i>Radiotherapy and Oncology</i> , 2010 , 95, 185-90	5.3	208
224	Clinical applications of 7 T MRI in the brain. <i>European Journal of Radiology</i> , 2013 , 82, 708-18	4.7	186
223	In vivo detection of cerebral cortical microinfarcts with high-resolution 7T MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 322-9	7.3	154
222	In vivo three-dimensional whole-brain pulsed steady-state chemical exchange saturation transfer at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1579-89	4.4	151
221	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 527-550	4.4	134
220	The fractionated dipole antenna: A new antenna for body imaging at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1366-74	4.4	130
219	Imaging intracranial vessel wall pathology with magnetic resonance imaging: current prospects and future directions. <i>Circulation</i> , 2014 , 130, 192-201	16.7	116
218	Whole-body diffusion-weighted magnetic resonance imaging. <i>European Journal of Radiology</i> , 2009 , 70, 409-17	4.7	115
217	B1(+) phase mapping at 7 T and its application for in vivo electrical conductivity mapping. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 552-61	4.4	110
216	Intracranial vessel wall imaging at 7.0-T MRI. <i>Stroke</i> , 2011 , 42, 2478-84	6.7	109
215	³¹ P MRSI and ¹ H MRS at 7 T: initial results in human breast cancer. <i>NMR in Biomedicine</i> , 2011 , 24, 1337-42	4.4	107
214	Hippocampal subfield volumes at 7T in early Alzheimer's disease and normal aging. <i>Neurobiology of Aging</i> , 2014 , 35, 2039-45	5.6	103
213	GABA and glutamate in schizophrenia: a 7 T ¹ H-MRS study. <i>NeuroImage: Clinical</i> , 2014 , 6, 398-407	5.3	102
212	Diffusion-weighted MR neurography of the brachial plexus: feasibility study. <i>Radiology</i> , 2008 , 249, 653-60	6.5	101

211	Increased cortical grey matter lesion detection in multiple sclerosis with 7 T MRI: a post-mortem verification study. <i>Brain</i> , 2016 , 139, 1472-81	11.2	100
210	The importance of correcting for signal drift in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 285-299	4.4	100
209	Techniques and applications of skeletal muscle diffusion tensor imaging: A review. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 773-88	5.6	96
208	Signal to noise ratio and uncertainty in diffusion tensor imaging at 1.5, 3.0, and 7.0 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 1456-63	5.6	94
207	ADC measurements of lymph nodes: inter- and intra-observer reproducibility study and an overview of the literature. <i>European Journal of Radiology</i> , 2010 , 75, 215-20	4.7	94
206	High-resolution magnetization-prepared 3D-FLAIR imaging at 7.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 194-202	4.4	90
205	Cortical depth-dependent temporal dynamics of the BOLD response in the human brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 1999-2008	7.3	87
204	Complementary roles of whole-body diffusion-weighted MRI and 18F-FDG PET: the state of the art and potential applications. <i>Journal of Nuclear Medicine</i> , 2010 , 51, 1549-58	8.9	82
203	Influence of cardiac motion on diffusion-weighted magnetic resonance imaging of the liver. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009 , 22, 319-25	2.8	80
202	Electrical properties tomography in the human brain at 1.5, 3, and 7T: a comparison study. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 354-63	4.4	72
201	BOLD matches neuronal activity at the mm scale: a combined 7T fMRI and ECoG study in human sensorimotor cortex. <i>NeuroImage</i> , 2014 , 101, 177-84	7.9	67
200	Improved differentiation between MS and vascular brain lesions using FLAIR* at 7 Tesla. <i>European Radiology</i> , 2014 , 24, 841-9	8	66
199	High prevalence of cerebral microbleeds at 7Tesla MRI in patients with early Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2012 , 31, 259-63	4.3	66
198	Feasibility of 7 Tesla breast magnetic resonance imaging determination of intrinsic sensitivity and high-resolution magnetic resonance imaging, diffusion-weighted imaging, and (1)H-magnetic resonance spectroscopy of breast cancer patients receiving neoadjuvant therapy. <i>Investigative Radiology</i> , 2011 , 46, 370-8	10.1	65
197	Laminar imaging of positive and negative BOLD in human visual cortex at 7T. <i>NeuroImage</i> , 2018 , 164, 100-111	7.9	64
196	Visualization of perivascular spaces and perforating arteries with 7 T magnetic resonance imaging. <i>Investigative Radiology</i> , 2014 , 49, 307-13	10.1	62
195	Efficient spectral editing at 7 T: GABA detection with MEGA-sLASER. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1018-25	4.4	62
194	Lesion detection at seven Tesla in multiple sclerosis using magnetisation prepared 3D-FLAIR and 3D-DIR. <i>European Radiology</i> , 2012 , 22, 221-31	8	62

193	Blood oxygenation level-dependent (BOLD) total and extravascular signal changes and $R2^*$ in human visual cortex at 1.5, 3.0 and 7.0 T. <i>NMR in Biomedicine</i> , 2011 , 24, 25-34	4.4	59
192	Direct B0 field monitoring and real-time B0 field updating in the human breast at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 586-91	4.4	56
191	Multi-sequence whole-brain intracranial vessel wall imaging at 7.0 tesla. <i>European Radiology</i> , 2013 , 23, 2996-3004	8	54
190	Multislice 1H MRSI of the human brain at 7 T using dynamic B $_1$ and B $_2$ shimming. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 662-70	4.4	54
189	Amide proton transfer imaging of the human breast at 7T: development and reproducibility. <i>NMR in Biomedicine</i> , 2013 , 26, 1271-7	4.4	53
188	Cerebral amyloid angiopathy severity is linked to dilation of juxtacortical perivascular spaces. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 576-80	7.3	52
187	The spectrum of MR detectable cortical microinfarcts: a classification study with 7-tesla postmortem MRI and histopathology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 676-83	7.3	51
186	Investigating the non-linearity of the BOLD cerebrovascular reactivity response to targeted hypo/hypercapnia at 7T. <i>NeuroImage</i> , 2014 , 98, 296-305	7.9	51
185	Clinical application of multi-contrast 7-T MR imaging in multiple sclerosis: increased lesion detection compared to 3 T confined to grey matter. <i>European Radiology</i> , 2013 , 23, 528-40	8	50
184	Fluid attenuated inversion recovery (FLAIR) MRI at 7.0 Tesla: comparison with 1.5 and 3.0 Tesla. <i>European Radiology</i> , 2010 , 20, 915-22	8	50
183	Examining the regional and cerebral depth-dependent BOLD cerebrovascular reactivity response at 7T. <i>NeuroImage</i> , 2015 , 114, 239-48	7.9	48
182	Fast high resolution whole brain T2* weighted imaging using echo planar imaging at 7T. <i>NeuroImage</i> , 2011 , 56, 1902-7	7.9	48
181	"MASSIVE" brain dataset: Multiple acquisitions for standardization of structural imaging validation and evaluation. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1797-1809	4.4	47
180	Volume increase in the dentate gyrus after electroconvulsive therapy in depressed patients as measured with 7T. <i>Molecular Psychiatry</i> , 2020 , 25, 1559-1568	15.1	47
179	High-resolution intracranial vessel wall MRI in an elderly asymptomatic population: comparison of 3T and 7T. <i>European Radiology</i> , 2017 , 27, 1585-1595	8	46
178	Cerebral microvascular lesions on high-resolution 7-Tesla MRI in patients with type 2 diabetes. <i>Diabetes</i> , 2014 , 63, 3523-9	0.9	46
177	Visualization of the aneurysm wall: a 7.0-tesla magnetic resonance imaging study. <i>Neurosurgery</i> , 2014 , 75, 614-22; discussion 622	3.2	46
176	Diffusion-weighted MR neurography of the sacral plexus with unidirectional motion probing gradients. <i>European Radiology</i> , 2010 , 20, 1221-6	8	45

175	BOLD consistently matches electrophysiology in human sensorimotor cortex at increasing movement rates: a combined 7T fMRI and ECoG study on neurovascular coupling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 1448-56	7.3	43
174	High-field MRS of the human brain at short TE and TR. <i>NMR in Biomedicine</i> , 2011 , 24, 1081-8	4.4	42
173	Lines of Baillarger in vivo and ex vivo: Myelin contrast across lamina at 7T MRI and histology. <i>NeuroImage</i> , 2016 , 133, 163-175	7.9	40
172	Quantitative 31P magnetic resonance spectroscopy of the human breast at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 339-48	4.4	40
171	Noninvasive depiction of the lenticulostriate arteries with time-of-flight MR angiography at 7.0 T. <i>Cerebrovascular Diseases</i> , 2008 , 26, 624-9	3.2	40
170	Microbleeds, lacunar infarcts, white matter lesions and cerebrovascular reactivity -- a 7 T study. <i>NeuroImage</i> , 2012 , 59, 950-6	7.9	39
169	Cortical depth dependence of the BOLD initial dip and poststimulus undershoot in human visual cortex at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2283-95	4.4	38
168	BOLD specificity and dynamics evaluated in humans at 7 T: comparing gradient-echo and spin-echo hemodynamic responses. <i>PLoS ONE</i> , 2013 , 8, e54560	3.7	36
167	Thinner Regions of Intracranial Aneurysm Wall Correlate with Regions of Higher Wall Shear Stress: A 7T MRI Study. <i>American Journal of Neuroradiology</i> , 2016 , 37, 1310-7	4.4	36
166	Direct detection of myocardial fibrosis by MRI. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 974-9	5.8	35
165	Perforating arteries originating from the posterior communicating artery: a 7.0-Tesla MRI study. <i>European Radiology</i> , 2009 , 19, 2986-92	8	35
164	Visualization of cerebral microbleeds with dual-echo T2*-weighted magnetic resonance imaging at 7.0 T. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 52-9	5.6	35
163	High resolution pituitary gland MRI at 7.0 tesla: a clinical evaluation in Cushing's disease. <i>European Radiology</i> , 2016 , 26, 271-7	8	34
162	Lipid suppression for brain MRI and MRSI by means of a dedicated crusher coil. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2062-8	4.4	34
161	Fast design of local N-gram-specific absorption rate-optimized radiofrequency pulses for parallel transmit systems. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 824-34	4.4	34
160	Diffuse optical tomography of the breast: preliminary findings of a new prototype and comparison with magnetic resonance imaging. <i>European Radiology</i> , 2009 , 19, 1108-13	8	34
159	Intersubject local SAR variation for 7T prostate MR imaging with an eight-channel single-side adapted dipole antenna array. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1559-67	4.4	33
158	Diffusion-weighted MRI for evaluating perianal fistula activity: feasibility study. <i>European Journal of Radiology</i> , 2012 , 81, 2049-53	4.7	32

157	Dissected sentinel lymph nodes of breast cancer patients: characterization with high-spatial-resolution 7-T MR imaging. <i>Radiology</i> , 2011 , 261, 127-35	20.5	32
156	Higher Pulsatility in Cerebral Perforating Arteries in Patients With Small Vessel Disease Related Stroke, a 7T MRI Study. <i>Stroke</i> , 2018 , STROKEAHA118022516	6.7	32
155	Seven tesla MRI improves detection of focal cortical dysplasia in patients with refractory focal epilepsy. <i>Epilepsia Open</i> , 2017 , 2, 162-171	4	30
154	An 8-channel Tx/Rx dipole array combined with 16 Rx loops for high-resolution functional cardiac imaging at 7T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018 , 31, 7-18	2.8	30
153	Clinical vascular imaging in the brain at 7T. <i>NeuroImage</i> , 2018 , 168, 452-458	7.9	30
152	The BOLD cerebrovascular reactivity response to progressive hypercapnia in young and elderly. <i>NeuroImage</i> , 2016 , 139, 94-102	7.9	30
151	Morphological features of MS lesions on FLAIR* at 7T and their relation to patient characteristics. <i>Journal of Neurology</i> , 2014 , 261, 1356-64	5.5	30
150	Cerebral cortical microinfarcts at 7Tesla MRI in patients with early Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2014 , 39, 163-7	4.3	30
149	Quantitative Intracranial Atherosclerotic Plaque Characterization at 7T MRI: An Ex Vivo Study with Histologic Validation. <i>American Journal of Neuroradiology</i> , 2016 , 37, 802-10	4.4	29
148	7 T versus 3T contrast-enhanced breast magnetic resonance imaging of invasive ductal carcinoma: first clinical experience. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 613-7	3.3	28
147	Hippocampal disconnection in early Alzheimer's disease: a 7 tesla MRI study. <i>Journal of Alzheimer's Disease</i> , 2015 , 45, 1247-56	4.3	28
146	MR spectroscopy of cerebral white matter in type 2 diabetes; no association with clinical variables and cognitive performance. <i>Neuroradiology</i> , 2010 , 52, 155-61	3.2	28
145	Opening a new window on MR-based Electrical Properties Tomography with deep learning. <i>Scientific Reports</i> , 2019 , 9, 8895	4.9	27
144	Glutamate changes in healthy young adulthood. <i>European Neuropsychopharmacology</i> , 2013 , 23, 1484-90	1.2	27
143	High-resolution postcontrast time-of-flight MR angiography of intracranial perforators at 7.0 Tesla. <i>PLoS ONE</i> , 2015 , 10, e0121051	3.7	27
142	Uniform prostate imaging and spectroscopy at 7 T: comparison between a microstrip array and an endorectal coil. <i>NMR in Biomedicine</i> , 2011 , 24, 358-65	4.4	27
141	Phase contrast MRI measurements of net cerebrospinal fluid flow through the cerebral aqueduct are confounded by respiration. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 433-444	5.6	26
140	Perivascular spaces on 7 Tesla brain MRI are related to markers of small vessel disease but not to age or cardiovascular risk factors. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 1708-1717	7.3	26

139	Error analysis of helmholtz-based MR-electrical properties tomography. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 90-100	4.4	26
138	Fast quantitative MRI as a nonlinear tomography problem. <i>Magnetic Resonance Imaging</i> , 2018 , 46, 56-63	3.3	26
137	Amide chemical exchange saturation transfer at 7T: a possible biomarker for detecting early response to neoadjuvant chemotherapy in breast cancer patients. <i>Breast Cancer Research</i> , 2018 , 20, 51	8.3	25
136	Patterns of intracranial vessel wall changes in relation to ischemic infarcts. <i>Neurology</i> , 2014 , 83, 1316-20	6.5	25
135	Radiofrequency configuration to facilitate bilateral breast (31) P MR spectroscopic imaging and high-resolution MRI at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1803-10	4.4	25
134	Intratumoral administration of holmium-166 acetylacetonate microspheres: antitumor efficacy and feasibility of multimodality imaging in renal cancer. <i>PLoS ONE</i> , 2013 , 8, e52178	3.7	25
133	Endogenous contrast MRI of cardiac fibrosis: beyond late gadolinium enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1181-9	5.6	24
132	Whole-body MRI using a sliding table and repositioning surface coil approach. <i>European Radiology</i> , 2010 , 20, 1366-73	8	24
131	Holmium nanoparticles: preparation and in vitro characterization of a new device for radioablation of solid malignancies. <i>Pharmaceutical Research</i> , 2010 , 27, 2205-12	4.5	24
130	MRI of the carotid artery at 7 Tesla: quantitative comparison with 3 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 773-80	5.6	22
129	Coaxial waveguide for travelling wave MRI at ultrahigh fields. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 875-84	4.4	21
128	Time efficient design of multi dimensional RF pulses: application of a multi shift CGLS algorithm. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 879-85	4.4	21
127	Dynamic contrast-enhanced CT for prostate cancer: relationship between image noise, voxel size, and repeatability. <i>Radiology</i> , 2010 , 256, 976-84	20.5	21
126	Distribution and natural course of intracranial vessel wall lesions in patients with ischemic stroke or TIA at 7.0 Tesla MRI. <i>European Radiology</i> , 2015 , 25, 1692-700	8	20
125	Feasibility of high-resolution pituitary MRI at 7.0 tesla. <i>European Radiology</i> , 2014 , 24, 2005-11	8	19
124	Subtraction of unidirectionally encoded images for suppression of heavily isotropic objects (SUSHI) for selective visualization of peripheral nerves. <i>Neuroradiology</i> , 2011 , 53, 109-16	3.2	19
123	No evidence of microbleeds in ALS patients at 7 Tesla MRI. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2010 , 11, 555-7		19
122	Diffusion-weighted magnetic resonance imaging of the liver using tracking only navigator echo: feasibility study. <i>Investigative Radiology</i> , 2010 , 45, 57-63	10.1	19

121	Abnormalities of Cerebral Deep Medullary Veins on 7 Tesla MRI in Amnesic Mild Cognitive Impairment and Early Alzheimer's Disease: A Pilot Study. <i>Journal of Alzheimer's Disease</i> , 2017 , 57, 705-710	4.3	18
120	Ex vivo vessel wall thickness measurements of the human circle of Willis using 7T MRI. <i>Atherosclerosis</i> , 2018 , 273, 106-114	3.1	18
119	Spontaneous blood oxygenation level-dependent fMRI signal is modulated by behavioral state and correlates with evoked response in sensorimotor cortex: a 7.0-T fMRI study. <i>Human Brain Mapping</i> , 2012 , 33, 511-22	5.9	18
118	Personalised medicine through personalised medicines: time to integrate advanced, non-invasive imaging approaches and smart drug delivery systems. <i>International Journal of Pharmaceutics</i> , 2011 , 415, 5-8	6.5	18
117	Better and faster velocity pulsatility assessment in cerebral white matter perforating arteries with 7T quantitative flow MRI through improved slice profile, acquisition scheme, and postprocessing. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1473-1482	4.4	18
116	Amide proton transfer (APT) imaging of brain tumors at 7 T: The role of tissue water T ₂ -Relaxation properties. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1525-1532	4.4	17
115	(31) P MR spectroscopic imaging combined with (1) H MR spectroscopic imaging in the human prostate using a double tuned endorectal coil at 7T. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1516-21	4.4	17
114	Detecting Intracranial Vessel Wall Lesions With 7T-Magnetic Resonance Imaging: Patients With Posterior Circulation Ischemia Versus Healthy Controls. <i>Stroke</i> , 2017 , 48, 2601-2604	6.7	17
113	Optimal control design of turbo spin-echo sequences with applications to parallel-transmit systems. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 361-373	4.4	17
112	Cortical microinfarcts on 7T MRI in patients with spontaneous intracerebral hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1104-6	7.3	17
111	Multimodal tract-based analysis in ALS patients at 7T: a specific white matter profile?. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2014 , 15, 84-92	3.6	17
110	Intramolecular zero-quantum-coherence 2D NMR spectroscopy of lipids in the human breast at 7 T. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 451-7	4.4	17
109	7.0 T MRI detection of cerebral microinfarcts in patients with a symptomatic high-grade carotid artery stenosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1715-9	7.3	17
108	Very small cerebellar infarcts: integration of recent insights into a functional topographic classification. <i>Cerebrovascular Diseases</i> , 2013 , 36, 81-7	3.2	17
107	Generalized multiple-layer appearance of the cerebral cortex with 3D FLAIR 7.0-T MR imaging. <i>Radiology</i> , 2012 , 262, 995-1001	20.5	17
106	T mapping of cerebrospinal fluid: 3T versus 7T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018 , 31, 415-424	2.8	16
105	On the transmit field inhomogeneity correction of relaxation-compensated amide and NOE CEST effects at 7T. <i>NMR in Biomedicine</i> , 2017 , 30, e3687	4.4	15
104	7-T MRI in Cerebrovascular Diseases: Challenges to Overcome and Initial Results. <i>Topics in Magnetic Resonance Imaging</i> , 2016 , 25, 89-100	2.3	15

103	Detection of alterations in membrane metabolism during neoadjuvant chemotherapy in patients with breast cancer using phosphorus magnetic resonance spectroscopy at 7 Tesla. <i>SpringerPlus</i> , 2014 , 3, 634		15
102	Adiabatic turbo spin echo in human applications at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 580-7	4.4	15
101	Dynamic contrast-enhanced and ultra-high-resolution breast MRI at 7.0 Tesla. <i>European Radiology</i> , 2013 , 23, 2961-8	8	15
100	Introduction of the snake antenna array: Geometry optimization of a sinusoidal dipole antenna for 10.5T body imaging with lower peak SAR. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2885-2896	4.4	15
99	Quantifying cardiac-induced brain tissue expansion using DENSE. <i>NMR in Biomedicine</i> , 2019 , 32, e4050	4.4	15
98	Intersubject specific absorption rate variability analysis through construction of 23 realistic body models for prostate imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2106-2119	4.4	15
97	Early detection of changes in phospholipid metabolism during neoadjuvant chemotherapy in breast cancer patients using phosphorus magnetic resonance spectroscopy at 7T. <i>NMR in Biomedicine</i> , 2019 , 32, e4086	4.4	14
96	Plaque components in symptomatic moderately stenosed carotid arteries related to cerebral infarcts: the plaque at RISK study. <i>Stroke</i> , 2015 , 46, 568-71	6.7	14
95	MRI-based, wireless determination of the transfer function of a linear implant: Introduction of the transfer matrix. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 2771-2784	4.4	14
94	Public-private partnerships in translational medicine: concepts and practical examples. <i>Journal of Controlled Release</i> , 2012 , 161, 416-21	11.7	14
93	Assessment of Myocardial Fibrosis in Mice Using a T2*-Weighted 3D Radial Magnetic Resonance Imaging Sequence. <i>PLoS ONE</i> , 2015 , 10, e0129899	3.7	14
92	Proton and phosphorus magnetic resonance spectroscopy of the healthy human breast at 7T. <i>NMR in Biomedicine</i> , 2017 , 30, e3684	4.4	13
91	Contradiction between amide-CEST signal and pH in breast cancer explained with metabolic MRI. <i>NMR in Biomedicine</i> , 2019 , 32, e4110	4.4	13
90	Assessing Cortical Cerebral Microinfarcts on High Resolution MR Images. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	13
89	Local specific absorption rate in brain tumors at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 381-9	4.4	12
88	Endogenous assessment of diffuse myocardial fibrosis in patients with T -mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 45, 132-138	5.6	12
87	FLAIR images at 7 Tesla MRI highlight the ependyma and the outer layers of the cerebral cortex. <i>NeuroImage</i> , 2015 , 104, 100-9	7.9	12
86	Pushing functional MRI spatial and temporal resolution further: High-density receive arrays combined with shot-selective 2D CAIPIRINHA for 3D echo-planar imaging at 7 T. <i>NMR in Biomedicine</i> , 2020 , 33, e4281	4.4	12

85	Robust reconstruction of B1 (+) maps by projection into a spherical functions space. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 394-401	4.4	12
84	Refocused double-quantum editing for lactate detection at 7 T. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1-6	4.4	12
83	Microbleeds colocalize with enlarged juxtacortical perivascular spaces in amnesic mild cognitive impairment and early Alzheimer's disease: A 7 Tesla MRI study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 739-746	7.3	12
82	Cerebellar Cortical Infarct Cavities: Correlation With Risk Factors and MRI Markers of Cerebrovascular Disease. <i>Stroke</i> , 2015 , 46, 3154-60	6.7	11
81	Hippocampal T2 hyperintensities on 7T MRI. <i>NeuroImage: Clinical</i> , 2013 , 3, 196-201	5.3	11
80	Ischaemic cavities in the cerebellum: an ex vivo 7-tesla MRI study with pathological correlation. <i>Cerebrovascular Diseases</i> , 2014 , 38, 17-23	3.2	11
79	Seven-tesla magnetic resonance imaging of atherosclerotic plaque in the significantly stenosed carotid artery: a feasibility study. <i>Investigative Radiology</i> , 2014 , 49, 749-57	10.1	11
78	Low b-value diffusion-weighted imaging for diagnosing strangulated small bowel obstruction: a feasibility study. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 1117-24	5.6	11
77	Validating faster DENSE measurements of cardiac-induced brain tissue expansion as a potential tool for investigating cerebral microvascular pulsations. <i>NeuroImage</i> , 2020 , 208, 116466	7.9	11
76	Relations between location and type of intracranial atherosclerosis and parenchymal damage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 1271-80	7.3	10
75	Intelligence and Brain Efficiency: Investigating the Association between Working Memory Performance, Glutamate, and GABA. <i>Frontiers in Psychiatry</i> , 2017 , 8, 154	5	10
74	(19)F MRSI of capecitabine in the liver at 7 T using broadband transmit-receive antennas and dual-band RF pulses. <i>NMR in Biomedicine</i> , 2015 , 28, 1433-42	4.4	10
73	Tract-based magnetic resonance spectroscopy of the cingulum bundles at 7 T. <i>Human Brain Mapping</i> , 2012 , 33, 1503-11	5.9	10
72	Peristalsis gap sign at cine magnetic resonance imaging for diagnosing strangulated small bowel obstruction: feasibility study. <i>Japanese Journal of Radiology</i> , 2011 , 29, 11-8	2.9	10
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