

Peter R Luijten

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6243292/peter-r-luijten-publications-by-year.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	T2-weighted turbo spin-echo magnetic resonance imaging of canine brain anatomy at 1.5T, 3T, and 7T field strengths. <i>Anatomical Record</i> , 2022 , 305, 222-233	2.1	0
227	Blood Flow Velocity Pulsatility and Arterial Diameter Pulsatility Measurements of the Intracranial Arteries Using 4D PC-MRI. <i>Neuroinformatics</i> , 2021 , 1	3.2	
226	SAR and temperature distributions in a database of realistic human models for 7 T cardiac imaging. <i>NMR in Biomedicine</i> , 2021 , 34, e4525	4.4	1
225	Explaining RF induced current patterns on implantable medical devices during MRI using the transfer matrix. <i>Medical Physics</i> , 2021 , 48, 132-141	4.4	2
224	Real-time assessment of potential peak local specific absorption rate value without phase monitoring: Trigonometric maximization method for worst-case local specific absorption rate determination. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 3420-3433	4.4	4
223	Conditional safety margins for less conservative peak local SAR assessment: A probabilistic approach. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 3379-3395	4.4	1
222	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
221	Metabolite cycled liver H MRS on a 7 T parallel transmit system. <i>NMR in Biomedicine</i> , 2020 , 33, e4343	4.4	5
220	High-resolution in vivo MR-STAT using a matrix-free and parallelized reconstruction algorithm. <i>NMR in Biomedicine</i> , 2020 , 33, e4251	4.4	4
219	MRI-based transfer function determination through the transfer matrix by jointly fitting the incident and scattered field. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1081-1095	4.4	2
218	Correcting time-intensity curves in dynamic contrast-enhanced breast MRI for inhomogeneous excitation fields at 7T. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1000-1010	4.4	1
217	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
216	The YOUth cohort study: MRI protocol and test-retest reliability in adults. <i>Developmental Cognitive Neuroscience</i> , 2020 , 45, 100816	5.5	9
215	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
214	Introduction of Ultra-High-Field MR Imaging in Infants: Preparations and Feasibility. <i>American Journal of Neuroradiology</i> , 2020 , 41, 1532-1537	4.4	6
213	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
212	Microbleeds colocalize with enlarged juxtacortical perivascular spaces in amnesic mild cognitive impairment and early Alzheimer β disease: A 7 Tesla MRI study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 739-746	7.3	12

211	Accelerating implant RF safety assessment using a low-rank inverse update method. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1796-1809	4.4	4
210	Intracranial Vessel Wall Magnetic Resonance Imaging Does Not Allow for Accurate and Precise Wall Thickness Measurements: An Ex Vivo Study. <i>Stroke</i> , 2019 , 50, e283-e284	6.7	6
209	Opening a new window on MR-based Electrical Properties Tomography with deep learning. <i>Scientific Reports</i> , 2019 , 9, 8895	4.9	27
208	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
207	Reducing distortions in echo-planar breast imaging at ultrahigh field with high-resolution off-resonance maps. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 425-435	4.4	7
206	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
205	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
204	Homogeneous B for bilateral breast imaging at 7T using a five dipole transmit array merged with a high density receive loop array. <i>NMR in Biomedicine</i> , 2019 , 32, e4039	4.4	9
203	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
202	SNR optimized P functional MRS to detect mitochondrial and extracellular pH change during visual stimulation. <i>NMR in Biomedicine</i> , 2019 , 32, e4137	4.4	6
201	Quantifying cardiac-induced brain tissue expansion using DENSE. <i>NMR in Biomedicine</i> , 2019 , 32, e4050	4.4	15
200	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
199	Comparing signal-to-noise ratio for prostate imaging at 7T and 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 1446-1455	5.6	9
198	Shortening of apparent transverse relaxation time of inorganic phosphate as a breast cancer biomarker. <i>NMR in Biomedicine</i> , 2019 , 32, e4011	4.4	6
197	Potential acceleration performance of a 256-channel whole-brain receive array at 7 T. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1659-1670	4.4	10
196	Maximizing sensitivity for fast GABA edited spectroscopy in the visual cortex at 7T. <i>NMR in Biomedicine</i> , 2018 , 31, e3890	4.4	4
195	Quantification of Intracranial Aneurysm Volume Pulsation with 7T MRI. <i>American Journal of Neuroradiology</i> , 2018 , 39, 713-719	4.4	6
194	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

193	Vascular reactivity in small cerebral perforating arteries with 7 T phase contrast MRI - A proof of concept study. <i>NeuroImage</i> , 2018 , 172, 470-477	7.9	9
192	Estimating B in the breast at 7 T using a generic template. <i>NMR in Biomedicine</i> , 2018 , 31, e3911	4.4	3
191	Automated Multi-Atlas Segmentation of Hippocampal and Extrahippocampal Subregions in Alzheimer's Disease at 3T and 7T: What Atlas Composition Works Best?. <i>Journal of Alzheimer's Disease</i> , 2018 , 63, 217-225	4.3	7
190	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
189	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
188	Clinical vascular imaging in the brain at 7T. <i>NeuroImage</i> , 2018 , 168, 452-458	7.9	30
187	Laminar imaging of positive and negative BOLD in human visual cortex at 7T. <i>NeuroImage</i> , 2018 , 164, 100-111	7.9	64
186	Improved fat suppression of the breast using discretized frequency shimming. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 593-599	4.4	3
185	Design of a forward view antenna for prostate imaging at 7 T. <i>NMR in Biomedicine</i> , 2018 , 31, e3993	4.4	3
184	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
183	Phase matched RF pulse design for imaging a reduced field of excitation with a fast TSE acquisition. <i>Magnetic Resonance Imaging</i> , 2018 , 51, 128-136	3.3	1
182	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
181	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
180	Error analysis of helmholtz-based MR-electrical properties tomography. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 90-100	4.4	26
179	Establishing upper limits on neuronal activity-evoked pH changes with APT-CEST MRI at 7 T. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 126-136	4.4	7
178	Fast quantitative MRI as a nonlinear tomography problem. <i>Magnetic Resonance Imaging</i> , 2018 , 46, 56-63	3.3	26
177	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
176	Data on vessel wall thickness measurements of intracranial arteries derived from human circle of Willis specimens. <i>Data in Brief</i> , 2018 , 19, 6-12	1.2	9

175	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
174	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
173	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
172	Improving peak local SAR prediction in parallel transmit using in situ S-matrix measurements. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 2040-2047	4.4	8
171	"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
170	Quantitative T1 mapping under precisely controlled graded hyperoxia at 7T. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 1461-1469	7.3	8
169	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
168	Towards intrinsic R2* imaging in the prostate at 3 and 7tesla. <i>Magnetic Resonance Imaging</i> , 2017 , 42, 16-21	3.3	6
167	Proton and phosphorus magnetic resonance spectroscopy of the healthy human breast at 7T. <i>NMR in Biomedicine</i> , 2017 , 30, e3684	4.4	13
166	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
165	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
164	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
163	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
162	The importance of correcting for signal drift in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 285-299	4.4	100
161	Combining a reduced field of excitation with SENSE-based parallel imaging for maximum imaging efficiency. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 88-96	4.4	9
160	Detection of Glutamate Alterations in the Human Brain Using H-MRS: Comparison of STEAM and sLASER at 7 T. <i>Frontiers in Psychiatry</i> , 2017 , 8, 60	5	7
159	Intelligence and Brain Efficiency: Investigating the Association between Working Memory Performance, Glutamate, and GABA. <i>Frontiers in Psychiatry</i> , 2017 , 8, 154	5	10
158	Local specific absorption rate in brain tumors at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 381-9	4.4	12

157	Is there any difference in Amide and NOE CEST effects between white and gray matter at 7T?. <i>Journal of Magnetic Resonance</i> , 2016 , 272, 82-86	3	8
156	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
155	Dielectric waveguides for ultrahigh field magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1314-24	4.4	8
154	The BOLD cerebrovascular reactivity response to progressive hypercapnia in young and elderly. <i>NeuroImage</i> , 2016 , 139, 94-102	7.9	30
153	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
152	Fat suppression techniques for obtaining high resolution dynamic contrast enhanced bilateral breast MR images at 7T. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 462-8	3.3	2
151	Dynamic contrast-enhanced breast MRI at 7T and 3T: an intra-individual comparison study. <i>SpringerPlus</i> , 2016 , 5, 13		6
150	7T renal MRI: challenges and promises. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016 , 29, 417-33	2.8	8
149	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
148	A geometrical shift results in erroneous appearance of low frequency tissue eddy current induced phase maps. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 905-12	4.4	9
147	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
146	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
145	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
144	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
143	Noninvasive Electric Current Induction for Low-Frequency Tissue Conductivity Reconstruction: Is It Feasible With a TMS-MRI Setup?. <i>Tomography</i> , 2016 , 2, 203-214	3.1	2
142	Glycerophosphocholine and Glycerophosphoethanolamine Are Not the Main Sources of the In Vivo (31)P MRS Phosphodiester Signals from Healthy Fibroglandular Breast Tissue at 7 T. <i>Frontiers in Oncology</i> , 2016 , 6, 29	5.3	9
141	Single Breath-Hold T1 Mapping of the Heart for Endogenous Assessment of Myocardial Fibrosis. <i>Investigative Radiology</i> , 2016 , 51, 505-12	10.1	9
140	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

139	Fast 3D isotropic imaging of the aortic vessel wall by application of 2D spatially selective excitation and a new way of inversion recovery for black blood imaging. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 547-55	4.4	7
138	Proton observed phosphorus editing (POPE) for in vivo detection of phospholipid metabolites. <i>NMR in Biomedicine</i> , 2016 , 29, 1222-30	4.4	8
137	Saturation-transfer effects and longitudinal relaxation times of (31) P metabolites in fibroglandular breast tissue at 7T. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 402-7	4.4	3
136	2D AMESING multi-echo (31)P-MRSI of the liver at 7T allows transverse relaxation assessment and T2-weighted averaging for improved SNR. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 219-26	3.3	3
135	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
134	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
133	Myelin contrast across lamina at 7T, ex-vivo and in-vivo dataset. <i>Data in Brief</i> , 2016 , 8, 990-1003	1.2	8
132	MR-based measurements and simulations of the magnetic field created by a realistic transcranial magnetic stimulation (TMS) coil and stimulator. <i>NMR in Biomedicine</i> , 2016 , 29, 1590-1600	4.4	6
131	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
130	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
129	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
128	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
127	Examining the regional and cerebral depth-dependent BOLD cerebrovascular reactivity response at 7T. <i>NeuroImage</i> , 2015 , 114, 239-48	7.9	48
126	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
125	Cerebellar Cortical Infarct Cavities: Correlation With Risk Factors and MRI Markers of Cerebrovascular Disease. <i>Stroke</i> , 2015 , 46, 3154-60	6.7	11
124	MRI and (31)P magnetic resonance spectroscopy hardware for axillary lymph node investigation at 7T. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2038-46	4.4	8
123	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
122	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

121	Assessing Cortical Cerebral Microinfarcts on High Resolution MR Images. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	13
120	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
119	RF peak power reduction in CAIPIRINHA excitation by interslice phase optimization. <i>NMR in Biomedicine</i> , 2015 , 28, 1393-401	4.4	6
118	(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
117	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
116	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
115	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
114	Tilt optimized flip uniformity (TOFU) RF pulse for uniform image contrast at low specific absorption rate levels in combination with a surface breast coil at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 482-8	4.4	8
113	P1-218: Cerebral amyloid angiopathy severity is linked to dilation of juxtacortical perivascular spaces 2015 , 11, P435-P435		
112	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
111	Endogenous contrast MRI of cardiac fibrosis: beyond late gadolinium enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1181-9	5.6	24
110	Improved differentiation between MS and vascular brain lesions using FLAIR* at 7 Tesla. <i>European Radiology</i> , 2014 , 24, 841-9	8	66
109	Requirements for static and dynamic higher order B0 shimming of the human breast at 7 T. <i>NMR in Biomedicine</i> , 2014 , 27, 625-31	4.4	8
108	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
107	Patterns of intracranial vessel wall changes in relation to ischemic infarcts. <i>Neurology</i> , 2014 , 83, 1316-206.5		25
106	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
105	Feasibility of high-resolution pituitary MRI at 7.0 tesla. <i>European Radiology</i> , 2014 , 24, 2005-11	8	19
104	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

103	Imaging intracranial vessel wall pathology with magnetic resonance imaging: current prospects and future directions. <i>Circulation</i> , 2014 , 130, 192-201	16.7	116
102	Clinical proton MR spectroscopy in central nervous system disorders. <i>Radiology</i> , 2014 , 270, 658-79	20.5	381
101	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
100	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
99	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
98	(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
97	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
96	O5-02-03: CEREBRAL MICROVASCULAR LESIONS ON 7T MRI: RELATION TO AGE AND OTHER MARKERS OF SMALL VESSEL DISEASE 2014 , 10, P292-P293		
95	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
94	IC-P-191: CEREBRAL MICROVASCULAR LESIONS ON 7T MRI: RELATION TO AGE AND OTHER MARKERS OF SMALL VESSEL DISEASE 2014 , 10, P106-P107		
93	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
92	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
91	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
90	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
89	GABA and glutamate in schizophrenia: a 7 T ¹ H-MRS study. <i>NeuroImage: Clinical</i> , 2014 , 6, 398-407	5.3	102
88	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
87	Transmit and receive RF fields determination from a single low-tip-angle gradient-echo scan by scaling of SVD data. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 248-59	4.4	7
86	Detecting breast microcalcifications with high-field MRI. <i>NMR in Biomedicine</i> , 2014 , 27, 539-46	4.4	4

85	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
84	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
83	Visualization of perivascular spaces and perforating arteries with 7 T magnetic resonance imaging. <i>Investigative Radiology</i> , 2014 , 49, 307-13	10.1	62
82	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
81	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
80	Refocused double-quantum editing for lactate detection at 7 T. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1-6	4.4	12
79	Cerebral imaging with 7-Tesla MRI in patients with sickle cell disease: a pilot study. <i>Tijdschrift Voor Kindergeneeskunde</i> , 2013 , 81, 76-76		
78	Multi-sequence whole-brain intracranial vessel wall imaging at 7.0 tesla. <i>European Radiology</i> , 2013 , 23, 2996-3004	8	54
77	Ultra-High-Field MR Imaging: Research Tool or Clinical Need?. <i>PET Clinics</i> , 2013 , 8, 311-28	2.2	5
76	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
75	Coaxial waveguide for travelling wave MRI at ultrahigh fields. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 875-84	4.4	21
74	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
73	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
72	7 T versus 3T contrast-enhanced breast magnetic resonance imaging of invasive ductulobular carcinoma: first clinical experience. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 613-7	3.3	28
71	Glutamate changes in healthy young adulthood. <i>European Neuropsychopharmacology</i> , 2013 , 23, 1484-90	1.2	27
70	Hippocampal T2 hyperintensities on 7Tesla MRI. <i>NeuroImage: Clinical</i> , 2013 , 3, 196-201	5.3	11
69	Clinical applications of 7 T MRI in the brain. <i>European Journal of Radiology</i> , 2013 , 82, 708-18	4.7	186
68	Dynamic contrast-enhanced and ultra-high-resolution breast MRI at 7.0 Tesla. <i>European Radiology</i> , 2013 , 23, 2961-8	8	15

67	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
66	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
65	Very small cerebellar infarcts: integration of recent insights into a functional topographic classification. <i>Cerebrovascular Diseases</i> , 2013 , 36, 81-7	3.2	17
64	Image-based method to measure and characterize shim-induced eddy current fields. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2013 , 42, 245-260	0.6	7
63	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
62	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
61	Cerebral Small Vessel Disease In Patients With Sickle Cell Disease: Initial Findings With Ultra-High Field 7T MRI. <i>Blood</i> , 2013 , 122, 1011-1011	2.2	
60	Public-private partnerships in translational medicine: concepts and practical examples. <i>Journal of Controlled Release</i> , 2012 , 161, 416-21	11.7	14
59	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
58	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
57	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
56	Investigation of lipid composition of dissected sentinel lymph nodes of breast cancer patients by 7T proton MR spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 387-92	5.6	9
55	Microbleeds, lacunar infarcts, white matter lesions and cerebrovascular reactivity -- a 7 T study. <i>NeuroImage</i> , 2012 , 59, 950-6	7.9	39
54	Diffusion-weighted MRI for evaluating perianal fistula activity: feasibility study. <i>European Journal of Radiology</i> , 2012 , 81, 2049-53	4.7	32
53	O4-02-01: High prevalence of cerebral microbleeds at 7T MRI in patients with early Alzheimer's disease 2012 , 8, P614-P614		
52	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
51	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
50	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

49	Quantitative ³¹ P magnetic resonance spectroscopy of the human breast at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 339-48	4.4	40
48	Adiabatic turbo spin echo in human applications at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 580-7	4.4	15
47	Multislice ¹ H MRSI of the human brain at 7 T using dynamic B ₁ and B ₁ shimming. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 662-70	4.4	54
46	Efficient spectral editing at 7 T: GABA detection with MEGA-sLASER. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1018-25	4.4	62
45	Tract-based magnetic resonance spectroscopy of the cingulum bundles at 7 T. <i>Human Brain Mapping</i> , 2012 , 33, 1503-11	5.9	10
44	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
43	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
42	High field MRI in clinical practice. <i>Drug Discovery Today: Technologies</i> , 2011 , 8, e103-8	7.1	6
41	Fast high resolution whole brain T2* weighted imaging using echo planar imaging at 7T. <i>NeuroImage</i> , 2011 , 56, 1902-7	7.9	48
40	A novel approach to identify non-palpable breast lesions combining fluorescent liposomes and magnetic resonance-guided high intensity focused ultrasound-triggered release. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 458-64	5.7	6
39	Direct detection of myocardial fibrosis by MRI. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 974-9	5.8	35
38	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, 270-6	10.1	65
37	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
36	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
35	Improving background suppression in diffusion-weighted imaging of the abdomen and pelvis using STIR with single-axis diffusion encoding. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 877-80	3.3	3
34	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
33	Diffusion magnetic resonance imaging with gadofosveset trisodium as a negative contrast agent for lymph node metastases assessment. <i>Japanese Journal of Radiology</i> , 2011 , 29, 25-32	2.9	9
32	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

31	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
30	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
29	Blood oxygenation level-dependent (BOLD) total and extravascular signal changes and R_2^* 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
28	High-field MRS of the human brain at short TE and TR. <i>NMR in Biomedicine</i> , 2011 , 24, 1081-8	4.4	42
27	^31P MRSI and ^1H MRS at 7 T: initial results in human breast cancer. <i>NMR in Biomedicine</i> , 2011 , 24, 1337-42	4.4	107
26	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
25	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
24	Intracranial vessel wall imaging at 7.0-T MRI. <i>Stroke</i> , 2011 , 42, 2478-84	6.7	109
23	Microhemorrhages: Undetectable but clinically meaningful the question persists. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2011 , 12, 233-234		
22	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
21	Complementary roles of whole-body diffusion-weighted MRI and ^{18}F -FDG PET: the state of the art and potential applications. <i>Journal of Nuclear Medicine</i> , 2010 , 51, 1549-58	8.9	82
20	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
19	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
18	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
17	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
16	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
15	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
14	Diffusion-weighted MR neurography of the sacral plexus with unidirectional motion probing gradients. <i>European Radiology</i> , 2010 , 20, 1221-6	8	45

13	Whole-body MRI using a sliding table and repositioning surface coil approach. <i>European Radiology</i> , 2010 , 20, 1366-73	8	24
12	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
11	Apparent diffusion coefficient measurement in a moving phantom simulating linear respiratory motion. <i>Japanese Journal of Radiology</i> , 2010 , 28, 578-83	2.9	5
10	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
9	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
8	High-resolution magnetization-prepared 3D-FLAIR imaging at 7.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 194-202	4.4	90
7	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
6	Perforating arteries originating from the posterior communicating artery: a 7.0-Tesla MRI study. <i>European Radiology</i> , 2009 , 19, 2986-92	8	35
5	Whole-body diffusion-weighted magnetic resonance imaging. <i>European Journal of Radiology</i> , 2009 , 70, 409-17	4.7	115
4	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
3	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
2	Diffusion-weighted MR neurography of the brachial plexus: feasibility study. <i>Radiology</i> , 2008 , 249, 653-60.5	6.5	101
1	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