

Peter C M Van Zijl

List of Publications by Year in descending order

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388
papers

48,079
citations

1994

101
h-index

2127

203
g-index

397
all docs

397
docs citations

397
times ranked

30005
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional tracking of axonal projections in the brain by magnetic resonance imaging. <i>Annals of Neurology</i> , 1999, 45, 265-269.	5.3	3,317
2	Fiber tracking: principles and strategies – a technical review. <i>NMR in Biomedicine</i> , 2002, 15, 468-480.	2.8	1,859
3	Fiber Tract–based Atlas of Human White Matter Anatomy. <i>Radiology</i> , 2004, 230, 77-87.	7.3	1,727
4	Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template. <i>NeuroImage</i> , 2008, 40, 570-582.	4.2	1,528
5	Reproducibility of quantitative tractography methods applied to cerebral white matter. <i>NeuroImage</i> , 2007, 36, 630-644.	4.2	1,464
6	Tract probability maps in stereotaxic spaces: Analyses of white matter anatomy and tract-specific quantification. <i>NeuroImage</i> , 2008, 39, 336-347.	4.2	1,293
7	Using the amide proton signals of intracellular proteins and peptides to detect pH effects in MRI. <i>Nature Medicine</i> , 2003, 9, 1085-1090.	30.7	999
8	Family income, parental education and brain structure in children and adolescents. <i>Nature Neuroscience</i> , 2015, 18, 773-778.	14.8	979
9	DtiStudio: Resource program for diffusion tensor computation and fiber bundle tracking. <i>Computer Methods and Programs in Biomedicine</i> , 2006, 81, 106-116.	4.7	910
10	Chemical exchange saturation transfer (CEST): What is in a name and what isn't?. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 927-948.	3.0	903
11	Determining the longitudinal relaxation time (T1) of blood at 3.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 679-682.	3.0	594
12	Water saturation shift referencing (WASSR) for chemical exchange saturation transfer (CEST) experiments. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1441-1450.	3.0	555
13	Amide proton transfer (APT) contrast for imaging of brain tumors. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 1120-1126.	3.0	544
14	Imaging cortical association tracts in the human brain using diffusion–tensor–based axonal tracking. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 215-223.	3.0	534
15	Human brain white matter atlas: Identification and assignment of common anatomical structures in superficial white matter. <i>NeuroImage</i> , 2008, 43, 447-457.	4.2	486
16	Diffusion Tensor Imaging and Axonal Tracking in the Human Brainstem. <i>NeuroImage</i> , 2001, 14, 723-735.	4.2	484
17	Quantitative assessment of blood flow, blood volume and blood oxygenation effects in functional magnetic resonance imaging. <i>Nature Medicine</i> , 1998, 4, 159-167.	30.7	461
18	Atlas-based whole brain white matter analysis using large deformation diffeomorphic metric mapping: Application to normal elderly and Alzheimer's disease participants. <i>NeuroImage</i> , 2009, 46, 486-499.	4.2	456

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19	Differentiation between glioma and radiation necrosis using molecular magnetic resonance imaging of endogenous proteins and peptides. <i>Nature Medicine</i> , 2011, 17, 130-134.	30.7	448
20	Functional magnetic resonance imaging based on changes in vascular space occupancy. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 263-274.	3.0	428
21	Chemical exchange saturation transfer imaging and spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2006, 48, 109-136.	7.5	415
22	Water diffusion and acute stroke. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 154-163.	3.0	396
23	Pediatric diffusion tensor imaging: Normal database and observation of the white matter maturation in early childhood. <i>NeuroImage</i> , 2006, 29, 493-504.	4.2	383
24	Artificial reporter gene providing MRI contrast based on proton exchange. <i>Nature Biotechnology</i> , 2007, 25, 217-219.	17.5	379
25	Dual-Modality Monitoring of Targeted Intraarterial Delivery of Mesenchymal Stem Cells After Transient Ischemia. <i>Stroke</i> , 2008, 39, 1569-1574.	2.0	371
26	MRI detection of glycogen in vivo by using chemical exchange saturation transfer imaging (glycoCEST). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4359-4364.	7.1	370
27	White and gray matter development in human fetal, newborn and pediatric brains. <i>NeuroImage</i> , 2006, 33, 27-38.	4.2	346
28	Effects of signal-to-noise ratio on the accuracy and reproducibility of diffusion tensor imaging-derived fractional anisotropy, mean diffusivity, and principal eigenvector measurements at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 756-767.	3.4	336
29	DTI tractography based parcellation of white matter: Application to the mid-sagittal morphology of corpus callosum. <i>NeuroImage</i> , 2005, 26, 195-205.	4.2	335
30	Accurate quantitation of water-amide proton exchange rates using the phase-modulated CLEAN chemical EXchange (CLEANEX-PM) approach with a Fast-HSQC (FHSQC) detection scheme. <i>Journal of Biomolecular NMR</i> , 1998, 11, 221-226.	2.8	324
31	Multi-parametric neuroimaging reproducibility: A 3-T resource study. <i>NeuroImage</i> , 2011, 54, 2854-2866.	4.2	318
32	Amide proton transfer imaging of human brain tumors at 3T. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 585-592.	3.0	308
33	Practical data acquisition method for human brain tumor amide proton transfer (APT) imaging. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 842-849.	3.0	304
34	Optical coherence tomography reflects brain atrophy in multiple sclerosis: A four-year study. <i>Annals of Neurology</i> , 2015, 78, 801-813.	5.3	304
35	Detection of the Ischemic Penumbra Using pH-Weighted MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1129-1136.	4.3	296
36	Natural D-glucose as a biodegradable MRI contrast agent for detecting cancer. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1764-1773.	3.0	295

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37	Quantifying exchange rates in chemical exchange saturation transfer agents using the saturation time and saturation power dependencies of the magnetization transfer effect on the magnetic resonance imaging signal (QUEST and QUESP): Ph calibration for poly-L-lysine and a starburst dendrimer. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 836-847.	3.0	288
38	Atlas-guided tract reconstruction for automated and comprehensive examination of the white matter anatomy. <i>NeuroImage</i> , 2010, 52, 1289-1301.	4.2	277
39	Multi-contrast human neonatal brain atlas: Application to normal neonate development analysis. <i>NeuroImage</i> , 2011, 56, 8-20.	4.2	277
40	Routine clinical brain MRI sequences for use at 3.0 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 13-22.	3.4	272
41	Diffusion Tensor MR Imaging of the Brain and White Matter Tractography. <i>American Journal of Roentgenology</i> , 2002, 178, 3-16.	2.2	270
42	Nuclear Overhauser enhancement (NOE) imaging in the human brain at 7T. <i>NeuroImage</i> , 2013, 77, 114-124.	4.2	266
43	Quantitative description of proton exchange processes between water and endogenous and exogenous agents for WEX, CEST, and APT experiments. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 945-952.	3.0	258
44	Quantitative proton MR spectroscopic imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 356-363.	3.0	254
45	Diffusion Weighting by the Trace of the Diffusion Tensor within a Single Scan. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 41-52.	3.0	243
46	Diffusion tensor imaging of the developing mouse brain. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 18-23.	3.0	237
47	APT-weighted MRI: Techniques, current neuro applications, and challenging issues. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 347-364.	3.4	224
48	Magnetization Transfer Contrast and Chemical Exchange Saturation Transfer MRI. Features and analysis of the field-dependent saturation spectrum. <i>NeuroImage</i> , 2018, 168, 222-241.	4.2	220
49	Oxygenation and hematocrit dependence of transverse relaxation rates of blood at 3T. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 592-597.	3.0	216
50	Mechanism of magnetization transfer during on-resonance water saturation. A new approach to detect mobile proteins, peptides, and lipids. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 440-449.	3.0	200
51	Sensitive NMR Detection of Cationic-Polymer-Based Gene Delivery Systems Using Saturation Transfer via Proton Exchange. <i>Journal of the American Chemical Society</i> , 2001, 123, 8628-8629.	13.7	196
52	Developing MR reporter genes: promises and pitfalls. <i>NMR in Biomedicine</i> , 2007, 20, 275-290.	2.8	196
53	Quantitative description of the asymmetry in magnetization transfer effects around the water resonance in the human brain. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 786-793.	3.0	196
54	Multimodal imaging of the self-regulating developing brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19620-19625.	7.1	192

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55	MRI-detectable pH nanosensors incorporated into hydrogels for <i>in vivo</i> sensing of transplanted-cell viability. <i>Nature Materials</i> , 2013, 12, 268-275.	27.5	189
56	New <i>multicolor</i> -polypeptide diamagnetic chemical exchange saturation transfer (DIACEST) contrast agents for MRI. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 803-812.	3.0	188
57	Three-dimensional amide proton transfer MR imaging of gliomas: Initial experience and comparison with gadolinium enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1119-1128.	3.4	181
58	Multi-contrast large deformation diffeomorphic metric mapping for diffusion tensor imaging. <i>NeuroImage</i> , 2009, 47, 618-627.	4.2	179
59	<i>In vivo</i> three-dimensional whole-brain pulsed steady-state chemical exchange saturation transfer at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1579-1589.	3.0	176
60	On the relationship between seed-based and ICA-based measures of functional connectivity. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 644-657.	3.0	172
61	Analysis of noise effects on DTI-based tractography using the brute-force and multi-ROI approach. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 559-565.	3.0	169
62	From the diffusion coefficient to the diffusion tensor. <i>NMR in Biomedicine</i> , 2002, 15, 431-434.	2.8	165
63	MR tracking of transplanted cells with <i>positive contrast</i> -using manganese oxide nanoparticles. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1-7.	3.0	164
64	Calibration and validation of TRUST MRI for the estimation of cerebral blood oxygenation. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 42-49.	3.0	162
65	Long-term influence of normal variation in neonatal characteristics on human brain development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20089-20094.	7.1	158
66	Application of Phase-Modulated CLEAN Chemical EXchange Spectroscopy (CLEANEX-PM) to Detect Water ¹⁷ O-Protein Proton Exchange and Intermolecular NOEs. <i>Journal of the American Chemical Society</i> , 1997, 119, 6203-6204.	13.7	154
67	Three-dimensional anatomical characterization of the developing mouse brain by diffusion tensor microimaging. <i>NeuroImage</i> , 2003, 20, 1639-1648.	4.2	153
68	Dynamic Glucose-Enhanced (DGE) MRI: Translation to Human Scanning and First Results in Glioma Patients. <i>Tomography</i> , 2015, 1, 105-114.	1.8	153
69	Absolute Quantitation of Diffusion Constants in Human Stroke. <i>Stroke</i> , 1997, 28, 483-490.	2.0	153
70	Sustained Poststimulus Elevation in Cerebral Oxygen Utilization after Vascular Recovery. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 764-770.	4.3	152
71	Atlas-based analysis of neurodevelopment from infancy to adulthood using diffusion tensor imaging and applications for automated abnormality detection. <i>NeuroImage</i> , 2010, 52, 415-428.	4.2	152
72	Flow Territory Mapping of the Cerebral Arteries With Regional Perfusion MRI. <i>Stroke</i> , 2004, 35, 882-887.	2.0	150

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73	DeepHarmony: A deep learning approach to contrast harmonization across scanner changes. <i>Magnetic Resonance Imaging</i> , 2019, 64, 160-170.	1.8	150
74	Spatial normalization of diffusion tensor fields. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 175-182.	3.0	143
75	Theoretical and experimental investigation of the VASO contrast mechanism. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1261-1273.	3.0	142
76	Association of Cortical Lesion Burden on 7-T Magnetic Resonance Imaging With Cognition and Disability in Multiple Sclerosis. <i>JAMA Neurology</i> , 2015, 72, 1004.	9.0	140
77	On the precision of diffusion/perfusion imaging by gradient sensitization. <i>Magnetic Resonance in Medicine</i> , 1992, 23, 122-129.	3.0	138
78	Human brain atlas for automated region of interest selection in quantitative susceptibility mapping: Application to determine iron content in deep gray matter structures. <i>NeuroImage</i> , 2013, 82, 449-469.	4.2	138
79	Orientation-independent diffusion imaging without tensor diagonalization: Anisotropy definitions based on physical attributes of the diffusion ellipsoid. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 804-813.	3.4	135
80	Regional white matter change in pre-symptomatic Huntington's disease: A diffusion tensor imaging study. <i>Psychiatry Research - Neuroimaging</i> , 2005, 140, 55-62.	1.8	135
81	Fast 3D chemical exchange saturation transfer (CEST) imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 638-644.	3.0	134
82	Proton MR Spectroscopic and Diffusion Tensor Brain MR Imaging in X-linked Adrenoleukodystrophy: Initial Experience. <i>Radiology</i> , 2002, 225, 245-252.	7.3	133
83	Applying amide proton transfer-weighted MRI to distinguish pseudoprogression from true progression in malignant gliomas. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 456-462.	3.4	132
84	Gradient-enhanced HMQC and HSQC spectroscopy. Applications to ¹⁵ N-labeled Mnt repressor. <i>Journal of the American Chemical Society</i> , 1991, 113, 9688-9690.	13.7	128
85	Restricted and anisotropic displacement of water in healthy cat brain and in stroke studied by NMR diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 327-332.	3.0	128
86	Multislice proton magnetic resonance spectroscopic imaging in X-linked adrenoleukodystrophy. <i>Annals of Neurology</i> , 1994, 36, 595-608.	5.3	126
87	A Framework for Callosal Fiber Distribution Analysis. <i>NeuroImage</i> , 2002, 17, 1131-1143.	4.2	126
88	Predicting IDH mutation status in grade II gliomas using amide proton transfer-weighted (APT _w) MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1100-1109.	3.0	126
89	Simplified quantitative description of amide proton transfer (APT) imaging during acute ischemia. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 405-410.	3.0	122
90	Functional Analysis of Aquaporin-1 Deficient Red Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 1309-1313.	3.4	119

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91	Sensitive CEST agents based on nucleic acid imino proton exchange: Detection of poly(rU) and of a dendrimer-poly(rU) model for nucleic acid delivery and pharmacology. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 998-1005.	3.0	117
92	Variable delay multi-pulse train for fast chemical exchange saturation transfer and relayed-nuclear overhauser enhancement MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1798-1812.	3.0	115
93	Measurement of tissue oxygen extraction ratios from venous bloodT2: Increased precision and validation of principle. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 282-291.	3.0	112
94	Sickle Cell Disease: Continuous Arterial Spin-labeling Perfusion MR Imaging in Children. <i>Radiology</i> , 2003, 227, 567-574.	7.3	111
95	Intracellular volume and apparent diffusion constants of perfused cancer cell cultures, as measured by NMR. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 825-832.	3.0	109
96	In vivo visualization of human neural pathways by magnetic resonance imaging. <i>Annals of Neurology</i> , 2000, 47, 412-414.	5.3	109
97	MRI Reporter Genes. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1905-1908.	5.0	109
98	Quantitative Susceptibility Mapping Suggests Altered Brain Iron in Premanifest Huntington Disease. <i>American Journal of Neuroradiology</i> , 2016, 37, 789-796.	2.4	107
99	Proton NMR spectroscopy of solvent-saturable resonances: A new approach to study pH effects in Situ. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 36-42.	3.0	106
100	Two-Compartment Exchange Model for Perfusion Quantification Using Arterial Spin Tagging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 440-455.	4.3	106
101	Novel approach to the measurement of absolute cerebral blood volume using vascular-space-occupancy magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1403-1411.	3.0	105
102	In vivo multicolor molecular MR imaging using diamagnetic chemical exchange saturation transfer liposomes. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1106-1113.	3.0	104
103	Imaging the physiological evolution of the ischemic penumbra in acute ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1500-1516.	4.3	104
104	Identifying Recurrent Malignant Glioma after Treatment Using Amide Proton Transfer-Weighted MR Imaging: A Validation Study with Image-Guided Stereotactic Biopsy. <i>Clinical Cancer Research</i> , 2019, 25, 552-561.	7.0	104
105	Experimental measurement of extravascular parenchymal BOLD effects and tissue oxygen extraction fractions using multi-echo VASO fMRI at 1.5 and 3.0 T. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 808-816.	3.0	103
106	High-throughput screening of chemical exchange saturation transfer MR contrast agents. <i>Contrast Media and Molecular Imaging</i> , 2010, 5, 162-170.	0.8	103
107	A motion correction scheme by twin-echo navigation for diffusion-weighted magnetic resonance imaging with multiple RF echo acquisition. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 511-516.	3.0	102
108	Impaired cortico-striatal functional connectivity in prodromal Huntington's Disease. <i>Neuroscience Letters</i> , 2012, 514, 204-209.	2.1	101

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109	Venous blood effects in spin-echo fMRI of human brain. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 617-626.	3.0	100
110	In Vivo proton spectroscopy and spectroscopic imaging of {1-13C}-glucose and its metabolic products. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 544-551.	3.0	98
111	Detrimental effects of BOLD signal in arterial spin labeling fMRI at high field strength. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 546-552.	3.0	97
112	Reproducibility and Temporal Structure in Weekly Resting-State fMRI over a Period of 3.5 Years. <i>PLoS ONE</i> , 2015, 10, e0140134.	2.5	97
113	Determination of Oxygen Extraction Ratios by Magnetic Resonance Imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 1289-1295.	4.3	95
114	fMRI evidence for multisensory recruitment associated with rapid eye movements during sleep. <i>Human Brain Mapping</i> , 2009, 30, 1705-1722.	3.6	95
115	Dynamic glucose enhanced (DGE) MRI for combined imaging of blood-brain barrier break down and increased blood volume in brain cancer. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1556-1563.	3.0	94
116	Correction of B0 susceptibility induced distortion in diffusion-weighted images using large-deformation diffeomorphic metric mapping. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1294-1302.	1.8	93
117	Amide proton transfer imaging of 9L gliosarcoma and human glioblastoma xenografts. <i>NMR in Biomedicine</i> , 2008, 21, 489-497.	2.8	92
118	Mapping magnetic susceptibility anisotropies of white matter in vivo in the human brain at 7T. <i>NeuroImage</i> , 2012, 62, 314-330.	4.2	92
119	Measuring Random Microscopic Motion of Water in Tissues with MR Imaging. <i>Journal of Computer Assisted Tomography</i> , 1991, 15, 19-25.	0.9	91
120	Three-Dimensional Diffusion Tensor Magnetic Resonance Microimaging of Adult Mouse Brain and Hippocampus. <i>NeuroImage</i> , 2002, 15, 892-901.	4.2	91
121	An account of the discrepancy between MRI and PET cerebral blood flow measures. A high-field MRI investigation. <i>NMR in Biomedicine</i> , 2006, 19, 1043-1054.	2.8	91
122	Whole-brain amide proton transfer (APT) and nuclear overhauser enhancement (NOE) imaging in glioma patients using low-power steady-state pulsed chemical exchange saturation transfer (CEST) imaging at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 41-50.	3.4	91
123	Water Exchange Filter with Improved Sensitivity (WEX II) to Study Solvent-Exchangeable Protons. Application to the Consensus Zinc Finger Peptide CP-1. <i>Journal of Magnetic Resonance Series B</i> , 1996, 110, 96-101.	1.6	88
124	Automated fiber tracking of human brain white matter using diffusion tensor imaging. <i>NeuroImage</i> , 2008, 42, 771-777.	4.2	87
125	High-resolution diffusion tensor imaging of the brain stem at 3 T. <i>American Journal of Neuroradiology</i> , 2004, 25, 1325-30.	2.4	87
126	In vivo nmr diffusion spectroscopy: application to phosphorus metabolites in muscle. <i>Magnetic Resonance in Medicine</i> , 1990, 13, 467-477.	3.0	86

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127	Short Echo Time Proton MR Spectroscopic Imaging. <i>Journal of Computer Assisted Tomography</i> , 1993, 17, 1-14.	0.9	86
128	Multiparametric magnetic resonance imaging analysis of the corticospinal tract in multiple sclerosis. <i>NeuroImage</i> , 2007, 38, 271-279.	4.2	84
129	Noninvasive Detection of Cerebral Hypoperfusion and Reversible Ischemia from Reductions in the Magnetic Resonance Imaging Relaxation Time, T2. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998, 18, 911-920.	4.3	83
130	Detection of amyloid plaques in mouse models of Alzheimer's disease by magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 452-457.	3.0	83
131	Evidence of slow maturation of the superior longitudinal fasciculus in early childhood by diffusion tensor imaging. <i>NeuroImage</i> , 2007, 38, 239-247.	4.2	83
132	High b-value q-space diffusion-weighted MRI of the human cervical spinal cord in vivo: Feasibility and application to multiple sclerosis. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1079-1089.	3.0	83
133	Monitoring Enzyme Activity Using a Diamagnetic Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agent. <i>Journal of the American Chemical Society</i> , 2011, 133, 16326-16329.	13.7	83
134	In vivo high-resolution diffusion tensor imaging of the mouse brain. <i>NeuroImage</i> , 2013, 83, 18-26.	4.2	83
135	NMR of partially aligned liquids: magnetic susceptibility anisotropies and dielectric properties. <i>Accounts of Chemical Research</i> , 1984, 17, 172-180.	15.6	81
136	Mapping postnatal mouse brain development with diffusion tensor microimaging. <i>NeuroImage</i> , 2005, 26, 1042-1051.	4.2	81
137	Transforming Thymidine into a Magnetic Resonance Imaging Probe for Monitoring Gene Expression. <i>Journal of the American Chemical Society</i> , 2013, 135, 1617-1624.	13.7	80
138	Indirect Detection of Labile Solute Proton Spectra via the Water Signal Using Frequency-Labeled Exchange (FLEX) Transfer. <i>Journal of the American Chemical Society</i> , 2010, 132, 1813-1815.	13.7	79
139	Magnetic susceptibility contrast variations in multiple sclerosis lesions. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 463-473.	3.4	79
140	Review and consensus recommendations on clinical APT-weighted imaging approaches at 3T: Application to brain tumors. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 546-574.	3.0	79
141	Quantitative proton MR spectroscopic imaging of normal human cerebellum and brain stem. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 699-705.	3.0	78
142	The BOLD post-stimulus undershoot, one of the most debated issues in fMRI. <i>NeuroImage</i> , 2012, 62, 1092-1102.	4.2	76
143	Label-free CEST MRI Detection of Citicoline-Liposome Drug Delivery in Ischemic Stroke. <i>Theranostics</i> , 2016, 6, 1588-1600.	10.0	74
144	Improving the detection sensitivity of H-weighted amide proton transfer MRI in acute stroke patients using extrapolated semisolid magnetization transfer reference signals. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 871-880.	3.0	74

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145	Separation of intramolecular NOE and exchange peaks in water exchange spectroscopy using spin-echo filters. <i>Journal of Biomolecular NMR</i> , 1996, 7, 77-82.	2.8	73
146	Defining an Acidosis-Based Ischemic Penumbra from pH-Weighted MRI. <i>Translational Stroke Research</i> , 2012, 3, 76-83.	4.2	73
147	Lesion Heterogeneity on High-Field Susceptibility MRI Is Associated with Multiple Sclerosis Severity. <i>American Journal of Neuroradiology</i> , 2016, 37, 1447-1453.	2.4	73
148	Correlation of the Average Water Diffusion Constant with Cerebral Blood Flow and Ischemic Damage after Transient Middle Cerebral Artery Occlusion in Cats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 881-891.	4.3	72
149	Magnetization transfer contrastâ€“suppressed imaging of amide proton transfer and relayed nuclear overhauser enhancement chemical exchange saturation transfer effects in the human brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 88-96.	3.0	72
150	Individual differences in frontolimbic circuitry and anxiety emerge with adolescent changes in endocannabinoid signaling across species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4500-4505.	7.1	72
151	Blood oxygenation levelâ€“dependent (BOLD) total and extravascular signal changes and $\hat{\rho}^*_{2}$ in human visual cortex at 1.5, 3.0 and 7.0 T. <i>NMR in Biomedicine</i> , 2011, 24, 25-34.	2.8	71
152	Brain metabolite alterations and cognitive dysfunction in early Huntington's disease. <i>Movement Disorders</i> , 2012, 27, 895-902.	3.9	71
153	Simultaneous detection and separation of hyperacute intracerebral hemorrhage and cerebral ischemia using amide proton transfer MRI. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 42-50.	3.0	71
154	Single ¹⁹ F Probe for Simultaneous Detection of Multiple Metal Ions Using miCEST MRI. <i>Journal of the American Chemical Society</i> , 2015, 137, 78-81.	13.7	70
155	Brain iron deficiency in idiopathic restless legs syndrome measured by quantitative magnetic susceptibility at 7 tesla. <i>Sleep Medicine</i> , 2016, 22, 75-82.	1.6	70
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