

Peter C M Van Zijl

List of Publications by Year in descending order

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Version: 2024-02-01

388
papers

48,079
citations

1994

101
h-index

2127

203
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397
all docs

397
docs citations

397
times ranked

30005
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards robust glucose chemical exchange saturation transfer imaging in humans at 3T: Arterial input function measurements and the effects of infusion time. <i>NMR in Biomedicine</i> , 2022, 35, e4624.	2.8	7
2	Deep learning-based classification of preclinical breast cancer tumor models using chemical exchange saturation transfer magnetic resonance imaging. <i>NMR in Biomedicine</i> , 2022, 35, e4626.	2.8	12
3	Detection of electrostatic molecular binding using the water proton signal. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 901-915.	3.0	5
4	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
5	² T ₂ -oximetry-based cerebral venous oxygenation mapping using Fourier-transform-based velocity-selective pulse trains. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1292-1302.	3.0	7
6	CEST MRI and MALDI imaging reveal metabolic alterations in the cervical lymph nodes of EAE mice. <i>Journal of Neuroinflammation</i> , 2022, 19, .	7.2	1
7	Five-year longitudinal changes in quantitative spinal cord MRI in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2021, 27, 549-558.	3.0	6
8	D-Glucose uptake and clearance in the tauopathy Alzheimer's disease mouse brain detected by on-resonance variable delay multiple pulse MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1013-1025.	4.3	27
9	Quantitative Susceptibility Mapping of Brain Iron and β -Amyloid in MRI and PET Relating to Cognitive Performance in Cognitively Normal Older Adults. <i>Radiology</i> , 2021, 298, 353-362.	7.3	29
10	Diffusion-regularized susceptibility tensor imaging (DRSTI) of tissue microstructures in the human brain. <i>Medical Image Analysis</i> , 2021, 67, 101827.	11.6	16
11	Mechanism and quantitative assessment of saturation transfer for water-based detection of the aliphatic protons in carbohydrate polymers. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1643-1654.	3.0	12
12	Impaired response of cerebral oxygen metabolism to visual stimulation in Huntington's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1119-1130.	4.3	5
13	CEST (Chemical Exchange Saturation Transfer) MR Molecular Imaging. , 2021, , 325-341.		0
14	Highly efficient magnetic labelling allows MRI tracking of the homing of stem cell-derived extracellular vesicles following systemic delivery. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12054.	12.2	43
15	Imaging meningeal inflammation in CNS autoimmunity identifies a therapeutic role for BTK inhibition. <i>Brain</i> , 2021, 144, 1396-1408.	7.6	44
16	Whole-brain amide CEST imaging at 3T with a steady-state radial MRI acquisition. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 893-906.	3.0	26
17	Single-step calculation of susceptibility through multiple orientation sampling. <i>NMR in Biomedicine</i> , 2021, 34, e4517.	2.8	3
18	Pulseq-CEST: Towards multi-site multi-vendor compatibility and reproducibility of CEST experiments using an open-source sequence standard. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1845-1858.	3.0	33

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19	Huntingtin silencing delays onset and slows progression of Huntington's disease: a biomarker study. <i>Brain</i> , 2021, 144, 3101-3113.	7.6	21
20	Three-dimensional whole-brain mapping of cerebral blood volume and venous cerebral blood volume using Fourier transform-based velocity-selective pulse trains. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1420-1433.	3.0	12
21	APT-weighted MRI Can Be an Early Marker for Demyelination. <i>Radiology</i> , 2021, 299, 435-437.	7.3	3
22	MTT and Blood-Brain Barrier Disruption within Asymptomatic Vascular WM Lesions. <i>American Journal of Neuroradiology</i> , 2021, 42, 1396-1402.	2.4	7
23	Early detection of Alzheimer's disease using creatine chemical exchange saturation transfer magnetic resonance imaging. <i>NeuroImage</i> , 2021, 236, 118071.	4.2	20
24	Hyperpolarized MRI, functional MRI, MR spectroscopy and CEST to provide metabolic information in vivo. <i>Current Opinion in Chemical Biology</i> , 2021, 63, 209-218.	6.1	17
25	Functional Activities Detected in the Olfactory Bulb and Associated Olfactory Regions in the Human Brain Using T2-Prepared BOLD Functional MRI at 7T. <i>Frontiers in Neuroscience</i> , 2021, 15, 723441.	2.8	7
26	Deuterium oxide as a contrast medium for real-time MRI-guided endovascular neurointervention. <i>Theranostics</i> , 2021, 11, 6240-6250.	10.0	7
27	Dynamic contrast-enhanced CEST MRI using a low molecular weight dextran. <i>NMR in Biomedicine</i> , 2021, e4649.	2.8	7
28	Monitoring diffuse injury during disease progression in experimental autoimmune encephalomyelitis with on resonance variable delay multiple pulse (onVDMP) CEST MRI. <i>NeuroImage</i> , 2020, 204, 116245.	4.2	10
29	Quantification of whole-brain oxygenation extraction fraction and cerebral metabolic rate of oxygen consumption in adults with sickle cell anemia using individual T ₂ -based oxygenation calibrations. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1066-1080.	3.0	28
30	Dynamic glucose weighted chemical exchange saturation transfer (glucoCEST)-based dynamic glucose enhanced (DGE) MRI at 3T: early experience in healthy volunteers and brain tumor patients. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 247-262.	3.0	41
31	Whole-Brain Functional and Diffusion Tensor MRI in Human Participants with Metallic Orthodontic Braces. <i>Radiology</i> , 2020, 294, 149-157.	7.3	12
32	Association of cerebrovascular reactivity and Alzheimer pathologic markers with cognitive performance. <i>Neurology</i> , 2020, 95, e962-e972.	1.1	39
33	CO ₂ cerebrovascular reactivity measured with phase-contrast MRI: A potential biomarker of cognition and physical function in older adults. <i>Alzheimer's and Dementia</i> , 2020, 16, e042215.	0.8	0
34	Mutant G2019S-LRRK2 Induces Abnormalities in Arteriolar Cerebral Blood Volume in Mouse Brains: An MRI Study. <i>Neurodegenerative Diseases</i> , 2020, 20, 65-72.	1.4	1
35	Altered dynamic glucose in brain parenchyma and cerebrospinal fluid of early Alzheimer's disease detected by dynamic glucose-enhanced MRI. <i>Science Advances</i> , 2020, 6, eaba3884.	10.3	60
36	Age-Related Alterations in Brain Perfusion, Venous Oxygenation, and Oxygen Metabolic Rate of Mice: A 17-Month Longitudinal MRI Study. <i>Frontiers in Neurology</i> , 2020, 11, 559.	2.4	13

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37	Spectroscopic measurements of metabolic fluxes. <i>Nature Biomedical Engineering</i> , 2020, 4, 254-256.	22.5	3
38	High-sensitivity CEST mapping using a spatiotemporal correlation-enhanced method. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3342-3350.	3.0	24
39	Fast whole brain MR imaging of dynamic susceptibility contrast changes in the cerebrospinal fluid (cDSC MRI). <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3256-3270.	3.0	12
40	APOE4 moderates effects of cortical iron on synchronized default mode network activity in cognitively healthy old-aged adults. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020, 12, e12002.	2.4	23
41	In vivo imaging of phosphocreatine with artificial neural networks. <i>Nature Communications</i> , 2020, 11, 1072.	12.8	55
42	Magnetic resonance imaging of glycogen using its magnetic coupling with water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3144-3149.	7.1	41
43	Quantitative theory for the transverse relaxation time of blood water. <i>NMR in Biomedicine</i> , 2020, 33, e4207.	2.8	31
44	Assessment of Amide proton transfer weighted (APT _w) MRI for pre-surgical prediction of final diagnosis in gliomas. <i>PLoS ONE</i> , 2020, 15, e0244003.	2.5	12
45	Learned Proximal Networks for Quantitative Susceptibility Mapping. <i>Lecture Notes in Computer Science</i> , 2020, 12262, 125-135.	1.3	14
46	GlucoCEST imaging with on-resonance variable delay multiple pulse (onVDMP) MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 47-56.	3.0	26
47	Differential Changes in Functional Connectivity of Striatum-Prefrontal and Striatum-Motor Circuits in Premanifest Huntington's Disease. <i>Neurodegenerative Diseases</i> , 2019, 19, 78-87.	1.4	19
48	DeepHarmony: A deep learning approach to contrast harmonization across scanner changes. <i>Magnetic Resonance Imaging</i> , 2019, 64, 160-170.	1.8	150
49	In vivo magnetic resonance imaging and spectroscopy. Technological advances and opportunities for applications continue to abound. <i>Journal of Magnetic Resonance</i> , 2019, 306, 55-65.	2.1	10
50	High-resolution creatine mapping of mouse brain at 11.7 T using non-steady-state chemical exchange saturation transfer. <i>NMR in Biomedicine</i> , 2019, 32, e4168.	2.8	29
51	CT and CEST MRI bimodal imaging of the intratumoral distribution of iodinated liposomes. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 1579-1591.	2.0	24
52	APT-weighted MRI: Techniques, current neuro applications, and challenging issues. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 347-364.	3.4	224
53	CEST MRI monitoring of tumor response to vascular disrupting therapy using high molecular weight dextrans. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1471-1479.	3.0	18
54	Prospective acceleration of parallel RF transmission-based 3D chemical exchange saturation transfer imaging with compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1812-1821.	3.0	25

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55	Detecting acid phosphatase enzymatic activity with phenol as a chemical exchange saturation transfer magnetic resonance imaging contrast agent (PhenolCEST MRI). <i>Biosensors and Bioelectronics</i> , 2019, 141, 111442.	10.1	13
56	Carbon Dots as a New Class of Diamagnetic Chemical Exchange Saturation Transfer (diaCEST) MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9871-9875.	13.8	45
57	Extracellular vesicles reveal abnormalities in neuronal iron metabolism in restless legs syndrome. <i>Sleep</i> , 2019, 42, .	1.1	13
58	Extradomain-B Fibronectin-Targeted Dextran-Based Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Probe for Detecting Pancreatic Cancer. <i>Bioconjugate Chemistry</i> , 2019, 30, 1425-1433.	3.6	25
59	Molecular imaging of deoxycytidine kinase activity using deoxycytidine-enhanced CEST MRI. <i>Cancer Research</i> , 2019, 79, canres.3565.2018.	0.9	12
60	The effect of the mTOR inhibitor rapamycin on glucoCEST signal in a preclinical model of glioblastoma. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3798-3807.	3.0	13
61	Increased cerebral blood volume in small arterial vessels is a correlate of amyloid- β -related cognitive decline. <i>Neurobiology of Aging</i> , 2019, 76, 181-193.	3.1	10
62	Multi-atlas tool for automated segmentation of brain gray matter nuclei and quantification of their magnetic susceptibility. <i>NeuroImage</i> , 2019, 191, 337-349.	4.2	54
63	Cerebral blood volume mapping using Fourier-transform-based velocity-selective saturation pulse trains. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3544-3554.	3.0	23
64	CEST MRI of ^3H -methylated glucose uptake and accumulation in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1993-2000.	3.0	42
65	Protein aggregation linked to Alzheimer's disease revealed by saturation transfer MRI. <i>NeuroImage</i> , 2019, 188, 380-390.	4.2	50
66	Altered functional connectivity between sub-regions in the thalamus and cortex in schizophrenia patients measured by resting state BOLD fMRI at 7T. <i>Schizophrenia Research</i> , 2019, 206, 370-377.	2.0	38
67	Optimization of phase-contrast MRI for the estimation of global cerebral blood flow of mice at 11.7T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2566-2575.	3.0	11
68	Quantifying amide proton exchange rate and concentration in chemical exchange saturation transfer imaging of the human brain. <i>NeuroImage</i> , 2019, 189, 202-213.	4.2	50
69	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
70	Altered brain iron content and deposition rate in Huntington's disease as indicated by quantitative susceptibility MRI. <i>Journal of Neuroscience Research</i> , 2019, 97, 467-479.	2.9	45
71	Background field removal for susceptibility mapping of human brain with large susceptibility variations. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2025-2037.	3.0	12
72	Creatine and phosphocreatine mapping of mouse skeletal muscle by a polynomial and Lorentzian line-shape fitting CEST method. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 69-78.	3.0	69

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73	Salicylic Acid-Based Polymeric Contrast Agents for Molecular Magnetic Resonance Imaging of Prostate Cancer. <i>Chemistry - A European Journal</i> , 2018, 24, 7235-7242.	3.3	11
74	MRI detection of bacterial brain abscesses and monitoring of antibiotic treatment using bacCEST. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 662-671.	3.0	25
75	Separating fast and slow exchange transfer and magnetization transfer using off-resonance variable-delay multiple-pulse (VDMP) MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1568-1576.	3.0	34
76	Low cortical iron and high entorhinal cortex volume promote cognitive functioning in the oldest-old. <i>Neurobiology of Aging</i> , 2018, 64, 68-75.	3.1	25
77	Quantitative assessment of cerebral venous blood T ₂ in mouse at 11.7T: Implementation, optimization, and age effect. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 521-528.	3.0	11
78	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
79	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
80	Accounting for the role of hematocrit in between-subject variations of MRI-derived baseline cerebral hemodynamic parameters and functional BOLD responses. <i>Human Brain Mapping</i> , 2018, 39, 344-353.	3.6	29
81	Characterization of tumor vascular permeability using natural dextrans and CEST MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1001-1009.	3.0	33
82	Consensus statement on current and emerging methods for the diagnosis and evaluation of cerebrovascular disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1391-1417.	4.3	48
83	Whole-brain arteriography and venography: Using improved velocity-selective saturation pulse trains. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2014-2023.	3.0	31
84	Brain and retinal atrophy in African-Americans versus Caucasian-Americans with multiple sclerosis: a longitudinal study. <i>Brain</i> , 2018, 141, 3115-3129.	7.6	67
85	CEST, ASL, and magnetization transfer contrast: How similar pulse sequences detect different phenomena. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1320-1340.	3.0	25
86	Molecular Imaging of CXCL12 Promoter-driven HSV1-TK Reporter Gene Expression. <i>Biotechnology and Bioengineering</i> , 2018, 23, 208-217.	2.6	6
87	CEST MRI of sepsis-induced acute kidney injury. <i>NMR in Biomedicine</i> , 2018, 31, e3942.	2.8	28
88	Arterial Input Functions and Tissue Response Curves in Dynamic Glucose-Enhanced (DGE) Imaging: Comparison between glucoCEST and Blood Glucose Sampling in Humans. <i>Tomography</i> , 2018, 4, 164-171.	1.8	25
89	Abnormal Grey Matter Arteriolar Cerebral Blood Volume in Schizophrenia Measured With 3D Inflow-Based Vascular-Space-Occupancy MRI at 7T. <i>Schizophrenia Bulletin</i> , 2017, 43, sbw109.	4.3	28
90	On-resonance variable delay multipulse scheme for imaging of fast-exchanging protons and semisolid macromolecules. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 730-739.	3.0	35

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91	Susceptibility tensor imaging (STI) of the brain. <i>NMR in Biomedicine</i> , 2017, 30, e3540.	2.8	59
92	Transverse water relaxation in whole blood and erythrocytes at 3T, 7T, 9.4T, 11.7T and 16.4T; determination of intracellular hemoglobin and extracellular albumin relaxivities. <i>Magnetic Resonance Imaging</i> , 2017, 38, 234-249.	1.8	26
93	A three-dimensional single-scan approach for the measurement of changes in cerebral blood volume, blood flow, and blood oxygenation-weighted signals during functional stimulation. <i>NeuroImage</i> , 2017, 147, 976-984.	4.2	8
94	Ultra-high-field (7.0 Tesla and above) MRI is now necessary to make the next step forward in understanding MS pathophysiology – Commentary. <i>Multiple Sclerosis Journal</i> , 2017, 23, 376-377.	3.0	1
95	Detection and Quantification of Hydrogen Peroxide in Aqueous Solutions Using Chemical Exchange Saturation Transfer. <i>Analytical Chemistry</i> , 2017, 89, 7758-7764.	6.5	27
96	Subject-specific regional measures of water diffusion are associated with impairment in chronic spinal cord injury. <i>Neuroradiology</i> , 2017, 59, 747-758.	2.2	7
97	Background field removal using a region adaptive kernel for quantitative susceptibility mapping of human brain. <i>Journal of Magnetic Resonance</i> , 2017, 281, 130-140.	2.1	12
98	Investigation of the contribution of total creatine to the CEST z -spectrum of brain using a knockout mouse model. <i>NMR in Biomedicine</i> , 2017, 30, e3834.	2.8	64
99	Detection of dynamic substrate binding using MRI. <i>Scientific Reports</i> , 2017, 7, 10138.	3.3	18
100	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
101	A dextran-based probe for the targeted magnetic resonance imaging of tumours expressing prostate-specific membrane antigen. <i>Nature Biomedical Engineering</i> , 2017, 1, 977-982.	22.5	58
102	Improving the detection sensitivity of p -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
103	GlucoCEST magnetic resonance imaging in vivo may be diagnostic of acute renal allograft rejection. <i>Kidney International</i> , 2017, 92, 757-764.	5.2	21
104	Memory performance-related dynamic brain connectivity indicates pathological burden and genetic risk for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2017, 9, 24.	6.2	43
105	Quantitative measurement of cerebral blood volume using velocity-selective pulse trains. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 92-101.	3.0	22
106	Fast measurement of blood T_1 in the human carotid artery at 3T: Accuracy, precision, and reproducibility. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2296-2302.	3.0	43
107	Language Mapping Using T2-Prepared BOLD Functional MRI in the Presence of Large Susceptibility Artifacts – Initial Results in Patients With Brain Tumor and Epilepsy. <i>Tomography</i> , 2017, 3, 105-113.	1.8	9
108	Chapter 6 General Theory of CEST Image Acquisition and Post-Processing. , 2017, , 55-96.		0

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109	Chapter 3 History of In Vivo Exchange Transfer Spectroscopy and Imaging in Baltimore. , 2017, , 17-38.		0
110	Dynamic Susceptibility Contrast MRI at 7 T: Tail-Scaling Analysis and Inferences about Field Strength Dependence. Tomography, 2017, 3, 74-78.	1.8	3
111	Label-free CEST MRI Detection of Citicoline-Liposome Drug Delivery in Ischemic Stroke. Theranostics, 2016, 6, 1588-1600.	10.0	74
112	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. Journal of Magnetic Resonance Imaging, 2016, 44, 41-50.	3.4	91
113	Quantitative theory for the longitudinal relaxation time of blood water. Magnetic Resonance in Medicine, 2016, 76, 270-281.	3.0	54
114	Magnetic susceptibility contrast variations in multiple sclerosis lesions. Journal of Magnetic Resonance Imaging, 2016, 43, 463-473.	3.4	79
115	CEST-MRI detects metabolite levels altered by breast cancer cell aggressiveness and chemotherapy response. NMR in Biomedicine, 2016, 29, 806-816.	2.8	49
116	Quantitative Susceptibility Mapping Using Structural Feature Based Collaborative Reconstruction (SFCR) in the Human Brain. IEEE Transactions on Medical Imaging, 2016, 35, 2040-2050.	8.9	37
117	Steady pulsed imaging and labeling scheme for noninvasive perfusion imaging. Magnetic Resonance in Medicine, 2016, 75, 238-248.	3.0	10
118	Magnetization transfer contrast-suppressed imaging of amide proton transfer and relayed nuclear overhauser enhancement chemical exchange saturation transfer effects in the human brain at 7T. Magnetic Resonance in Medicine, 2016, 75, 88-96.	3.0	72
119	¹⁵ N Heteronuclear Chemical Exchange Saturation Transfer MRI. Journal of the American Chemical Society, 2016, 138, 11136-11139.	13.7	16
120	Velocity-selective inversion prepared arterial spin labeling. Magnetic Resonance in Medicine, 2016, 76, 1136-1148.	3.0	51
121	Measurement of arteriolar blood volume in brain tumors using MRI without exogenous contrast agent administration at 7T. Journal of Magnetic Resonance Imaging, 2016, 44, 1244-1255.	3.4	13
122	Brain iron deficiency in idiopathic restless legs syndrome measured by quantitative magnetic susceptibility at 7 tesla. Sleep Medicine, 2016, 22, 75-82.	1.6	70
123	Screening CEST contrast agents using ultrafast CEST imaging. Journal of Magnetic Resonance, 2016, 265, 224-229.	2.1	21
124	Age-related changes in anterior cingulate cortex glutamate in schizophrenia: A 1H MRS Study at 7Tesla. Schizophrenia Research, 2016, 172, 101-105.	2.0	67
125	Applying amide proton transfer-weighted MRI to distinguish pseudoprogression from true progression in malignant gliomas. Journal of Magnetic Resonance Imaging, 2016, 44, 456-462.	3.4	132
126	Individual differences in frontolimbic circuitry and anxiety emerge with adolescent changes in endocannabinoid signaling across species. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4500-4505.	7.1	72

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127	Lesion Heterogeneity on High-Field Susceptibility MRI Is Associated with Multiple Sclerosis Severity. American Journal of Neuroradiology, 2016, 37, 1447-1453.	2.4	73
128	Quantitative Susceptibility Mapping Suggests Altered Brain Iron in Premanifest Huntington Disease. American Journal of Neuroradiology, 2016, 37, 789-796.	2.4	107
129	CEST theranostics: label-free MR imaging of anticancer drugs. Oncotarget, 2016, 7, 6369-6378.	1.8	49
130	Optical coherence tomography reflects brain atrophy in multiple sclerosis: A four-year study. Annals of Neurology, 2015, 78, 801-813.	5.3	304
131	Measurement of parenchymal extravascular R_2^* and tissue oxygen extraction fraction using multi-echo vascular space occupancy MRI at 7T. NMR in Biomedicine, 2015, 28, 264-271.	2.8	19
132	Simultaneous detection and separation of hyperacute intracerebral hemorrhage and cerebral ischemia using amide proton transfer MRI. Magnetic Resonance in Medicine, 2015, 74, 42-50.	3.0	71
133	Multi-echo Length and Offset VARied Saturation (MeLOVARS) method for improved CEST imaging. Magnetic Resonance in Medicine, 2015, 73, 488-496.	3.0	27
134	Dynamic glucose enhanced (DGE) MRI for combined imaging of blood-brain barrier break down and increased blood volume in brain cancer. Magnetic Resonance in Medicine, 2015, 74, 1556-1563.	3.0	94
135	Dynamic Glucose-Enhanced (DGE) MRI: Translation to Human Scanning and First Results in Glioma Patients. Tomography, 2015, 1, 105-114.	1.8	153
136	Reproducibility and Temporal Structure in Weekly Resting-State fMRI over a Period of 3.5 Years. PLoS ONE, 2015, 10, e0140134.	2.5	97
137	Single ^{19}F Probe for Simultaneous Detection of Multiple Metal Ions Using miCEST MRI. Journal of the American Chemical Society, 2015, 137, 78-81.	13.7	70
138	Susceptibility-based analysis of dynamic gadolinium bolus perfusion MRI. Magnetic Resonance in Medicine, 2015, 73, 544-554.	3.0	19
139	Thalamic lesions in multiple sclerosis by 7T MRI: Clinical implications and relationship to cortical pathology. Multiple Sclerosis Journal, 2015, 21, 1139-1150.	3.0	49
140	Association of Cortical Lesion Burden on 7-T Magnetic Resonance Imaging With Cognition and Disability in Multiple Sclerosis. JAMA Neurology, 2015, 72, 1004.	9.0	140
141	Label-free in vivo molecular imaging of underglycosylated mucin-1 expression in tumour cells. Nature Communications, 2015, 6, 6719.	12.8	62
142	Family income, parental education and brain structure in children and adolescents. Nature Neuroscience, 2015, 18, 773-778.	14.8	979
143	Biophysical Characterization of Human Protamine-1 as a Responsive CEST MR Contrast Agent. ACS Macro Letters, 2015, 4, 34-38.	4.8	19
144	Alternative Methods for fMRI. Biological Magnetic Resonance, 2015, , 271-309.	0.4	0

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145	Three-dimensional acquisition of cerebral blood volume and flow responses during functional stimulation in a single scan. <i>NeuroImage</i> , 2014, 103, 533-541.	4.2	4
146	Natural D-glucose as a biodegradable MRI relaxation agent. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 823-828.	3.0	69
147	Tuning Phenols with Intra-molecular Bond Shifted Hydrogens (IMSHY) as diaCEST MRI Contrast Agents. <i>Chemistry - A European Journal</i> , 2014, 20, 15824-15832.	3.3	43
148	Elevated arteriolar cerebral blood volume in prodromal Huntington's disease. <i>Movement Disorders</i> , 2014, 29, 396-401.	3.9	47
149	Three-dimensional whole-brain perfusion quantification using pseudo-continuous arterial spin labeling MRI at multiple post-labeling delays: accounting for both arterial transit time and impulse response function. <i>NMR in Biomedicine</i> , 2014, 27, 116-128.	2.8	35
150	Whole-brain three-dimensional T2-weighted BOLD functional magnetic resonance imaging at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1530-1540.	3.0	39
151	Non-invasive temperature mapping using temperature-responsive water saturation shift referencing (T-WASSR) MRI. <i>NMR in Biomedicine</i> , 2014, 27, 320-331.	2.8	33
152	Prefrontal Brain Network Connectivity Indicates Degree of Both Schizophrenia Risk and Cognitive Dysfunction. <i>Schizophrenia Bulletin</i> , 2014, 40, 653-664.	4.3	69
153	A diaCEST MRI approach for monitoring liposomal accumulation in tumors. <i>Journal of Controlled Release</i> , 2014, 180, 51-59.	9.9	52
154	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
155	Study of the Spatial Correlation Between Neuronal Activity and BOLD fMRI Responses Evoked by Sensory and Channelrhodopsin-2 Stimulation in the Rat Somatosensory Cortex. <i>Journal of Molecular Neuroscience</i> , 2014, 53, 553-61.	2.3	23
156	Localized diffusion magnetic resonance micro-imaging of the live mouse brain. <i>NeuroImage</i> , 2014, 91, 12-20.	4.2	37
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