

David C Alsop

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6322387/publications.pdf>

Version: 2024-02-01

243
papers

24,203
citations

6233

80
h-index

8138

148
g-index

257
all docs

257
docs citations

257
times ranked

21445
citing authors

#	ARTICLE	IF	CITATIONS
1	Recommended implementation of arterial spin-labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 102-116.	1.9	1,663
2	The neural basis of the central executive system of working memory. <i>Nature</i> , 1995, 378, 279-281.	13.7	1,397
3	Continuous flow-driven inversion for arterial spin labeling using pulsed radio frequency and gradient fields. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1488-1497.	1.9	872
4	MR Imaging Relaxation Times of Abdominal and Pelvic Tissues Measured in Vivo at 3.0 T: Preliminary Results. <i>Radiology</i> , 2004, 230, 652-659.	3.6	693
5	The Parahippocampus Subserves Topographical Learning in Man. <i>Cerebral Cortex</i> , 1996, 6, 823-829.	1.6	567
6	An fMRI Study of Facial Emotion Processing in Patients With Schizophrenia. <i>American Journal of Psychiatry</i> , 2002, 159, 1992-1999.	4.0	488
7	A functional MRI study of mental image generation. <i>Neuropsychologia</i> , 1997, 35, 725-730.	0.7	470
8	Magnetic Resonance Perfusion Imaging in Acute Ischemic Stroke Using Continuous Arterial Spin Labeling. <i>Stroke</i> , 2000, 31, 680-687.	1.0	452
9	Assessment of cerebral blood flow in Alzheimer's disease by spin-labeled magnetic resonance imaging. <i>Annals of Neurology</i> , 2000, 47, 93-100.	2.8	381
10	Experimental Design and the Relative Sensitivity of BOLD and Perfusion fMRI. <i>NeuroImage</i> , 2002, 15, 488-500.	2.1	365
11	Comparison of quantitative perfusion imaging using arterial spin labeling at 1.5 and 4.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 242-254.	1.9	346
12	Effects of transcranial direct current stimulation (tDCS) on human regional cerebral blood flow. <i>NeuroImage</i> , 2011, 58, 26-33.	2.1	340
13	An fMRI Study of Sex Differences in Regional Activation to a Verbal and a Spatial Task. <i>Brain and Language</i> , 2000, 74, 157-170.	0.8	333
14	Adults and children processing music: An fMRI study. <i>NeuroImage</i> , 2005, 25, 1068-1076.	2.1	333
15	Structural integrity of corticospinal motor fibers predicts motor impairment in chronic stroke. <i>Neurology</i> , 2010, 74, 280-287.	1.5	322
16	The short-term and long-term relationship between delirium and cognitive trajectory in older surgical patients. <i>Alzheimer's and Dementia</i> , 2016, 12, 766-775.	0.4	317
17	Brain Activation during Facial Emotion Processing. <i>NeuroImage</i> , 2002, 16, 651-662.	2.1	293
18	Perfusion magnetic resonance imaging with continuous arterial spin labeling: methods and clinical applications in the central nervous system. <i>European Journal of Radiology</i> , 1999, 30, 115-124.	1.2	281

#	ARTICLE	IF	CITATIONS
19	Sleep-dependent motor memory plasticity in the human brain. <i>Neuroscience</i> , 2005, 133, 911-917.	1.1	266
20	Amplitude-modulated Continuous Arterial Spin-labeling 3.0-T Perfusion MR Imaging with a Single Coil: Feasibility Study. <i>Radiology</i> , 2005, 235, 218-228.	3.6	265
21	Age-related differences in brain activation during emotional face processing. <i>Neurobiology of Aging</i> , 2003, 24, 285-295.	1.5	258
22	Tone Deafness: A New Disconnection Syndrome?. <i>Journal of Neuroscience</i> , 2009, 29, 10215-10220.	1.7	256
23	Reliability and precision of pseudo-continuous arterial spin labeling perfusion MRI on 3.0-T and comparison with ¹⁵ O-water PET in elderly subjects at risk for Alzheimer's disease. <i>NMR in Biomedicine</i> , 2010, 23, 286-293.	1.6	248
24	Arterial transit time imaging with flow encoding arterial spin tagging (FEAST). <i>Magnetic Resonance in Medicine</i> , 2003, 50, 599-607.	1.9	240
25	Functional Magnetic Resonance Imaging of Regional Brain Activity in Patients with Intracerebral Gliomas: Findings and Implications for Clinical Management. <i>Neurosurgery</i> , 1996, 38, 329-338.	0.6	237
26	Neural Specialization for Letter Recognition. <i>Journal of Cognitive Neuroscience</i> , 2002, 14, 145-159.	1.1	236
27	Efficiency of inversion pulses for background suppressed arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 366-372.	1.9	233
28	Neural basis for sentence comprehension: Grammatical and short-term memory components. <i>Human Brain Mapping</i> , 2002, 15, 80-94.	1.9	221
29	Age dependence of cerebral perfusion assessed by magnetic resonance continuous arterial spin labeling. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 696-702.	1.9	221
30	Global and Regional Effects of Type 2 Diabetes on Brain Tissue Volumes and Cerebral Vasoreactivity. <i>Diabetes Care</i> , 2007, 30, 1193-1199.	4.3	211
31	Arterial Spin Labeling Blood Flow MRI: Its Role in the Early Characterization of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 20, 871-880.	1.2	189
32	Postoperative Delirium and Postoperative Cognitive Dysfunction. <i>Anesthesiology</i> , 2019, 131, 477-491.	1.3	183
33	The Sensory Somatotopic Map of the Human Hand Demonstrated at 4 Tesla. <i>NeuroImage</i> , 1999, 10, 55-62.	2.1	181
34	Immediate coma following inertial brain injury dependent on axonal damage in the brainstem. <i>Journal of Neurosurgery</i> , 2000, 93, 315-322.	0.9	177
35	Arterial spin labelling reveals an abnormal cerebral perfusion pattern in Parkinson's disease. <i>Brain</i> , 2011, 134, 845-855.	3.7	173
36	T2* and proton density measurement of normal human lung parenchyma using submillisecond echo time gradient echo magnetic resonance imaging. <i>European Journal of Radiology</i> , 1999, 29, 245-252.	1.2	168

#	ARTICLE	IF	CITATIONS
37	Phase insensitive preparation of single-shot RARE: Application to diffusion imaging in humans. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 527-533.	1.9	164
38	Cerebral perfusion and arterial transit time changes during task activation determined with continuous arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 739-746.	1.9	163
39	Age-Related Changes in Working Memory during Sentence Comprehension: An fMRI Study. <i>NeuroImage</i> , 2002, 15, 302-317.	2.1	160
40	Hippocampal hyperperfusion in Alzheimer's disease. <i>NeuroImage</i> , 2008, 42, 1267-1274.	2.1	159
41	Perfusion MRI of brain tumours: a comparative study of pseudo-continuous arterial spin labelling and dynamic susceptibility contrast imaging. <i>Neuroradiology</i> , 2010, 52, 307-317.	1.1	158
42	Gender effects on odor-stimulated functional magnetic resonance imaging. <i>Brain Research</i> , 1999, 818, 480-487.	1.1	157
43	MRI characterization of diffusion coefficients in a rat spinal cord injury model. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 488-494.	1.9	155
44	Localization of subclinical ictal activity by functional magnetic resonance imaging: Correlation with invasive monitoring. <i>Annals of Neurology</i> , 1995, 38, 618-624.	2.8	155
45	Optical investigations of physiology. A study of intrinsic and extrinsic biomedical contrast. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997, 352, 707-716.	1.8	152
46	The sensitivity of low flip angle RARE imaging. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 176-184.	1.9	150
47	Functional magnetic resonance imaging of regional brain activity in patients with intracerebral arteriovenous malformations before surgical or endovascular therapy. <i>Journal of Neurosurgery</i> , 1996, 84, 477-483.	0.9	149
48	Reduced resolution transit delay prescan for quantitative continuous arterial spin labeling perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1252-1265.	1.9	146
49	Cerebral Blood Flow Velocity and Periventricular White Matter Hyperintensities in Type 2 Diabetes. <i>Diabetes Care</i> , 2006, 29, 1529-1534.	4.3	144
50	Noninvasive magnetic resonance imaging evaluation of cerebral blood flow with acetazolamide challenge in patients with cerebrovascular stenosis. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 870-875.	1.9	129
51	Neural basis for semantic memory difficulty in Alzheimer's disease: an fMRI study. <i>Brain</i> , 2003, 126, 292-311.	3.7	128
52	Review Article: Serum Biomarkers for Delirium. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 1281-1286.	1.7	120
53	Dissociable networks for the expectancy and perception of emotional stimuli in the human brain. <i>NeuroImage</i> , 2006, 30, 588-600.	2.1	118
54	The Neural Basis for Category-Specific Knowledge: An fMRI Study. <i>NeuroImage</i> , 2002, 15, 936-948.	2.1	117

#	ARTICLE	IF	CITATIONS
55	Novel Risk Markers and Long-Term Outcomes of Delirium: The Successful Aging after Elective Surgery (SAGES) Study Design and Methods. <i>Journal of the American Medical Directors Association</i> , 2012, 13, 818.e1-818.e10.	1.2	117
56	Magnetization transfer from inhomogeneously broadened lines: A potential marker for myelin. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 614-622.	1.9	116
57	Effects of anti-viral therapy and HCV clearance on cerebral metabolism and cognition. <i>Journal of Hepatology</i> , 2012, 56, 549-556.	1.8	115
58	Cytokines and Postoperative Delirium in Older Patients Undergoing Major Elective Surgery. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1289-1295.	1.7	115
59	Magnetic Resonance Imagingâ€œMeasured Blood Flow Change after Antiangiogenic Therapy with PTK787/ZK 222584 Correlates with Clinical Outcome in Metastatic Renal Cell Carcinoma. <i>Clinical Cancer Research</i> , 2008, 14, 5548-5554.	3.2	111
60	Does Arterial Spin-labeling MR Imagingâ€œmeasured Tumor Perfusion Correlate with Renal Cell Cancer Response to Antiangiogenic Therapy in a Mouse Model?. <i>Radiology</i> , 2009, 251, 731-742.	3.6	111
61	Treatment of Experimental Intracranial Murine Melanoma with a Neuroattenuated Herpes Simplex Virus 1 Mutant. <i>Virology</i> , 1995, 211, 94-101.	1.1	110
62	Arterial spin labeling blood flow magnetic resonance imaging for the characterization of metastatic renal cell carcinoma1. <i>Academic Radiology</i> , 2005, 12, 347-357.	1.3	108
63	Multi-Slice, Breathhold Imaging of the Lung with Submillisecond Echo Times. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 678-682.	1.9	105
64	Effects of dietary glycemic index on brain regions related to reward and craving in men. <i>American Journal of Clinical Nutrition</i> , 2013, 98, 641-647.	2.2	105
65	Higher C-Reactive Protein Levels Predict Postoperative Delirium in Older Patients Undergoing Major Elective Surgery: A Longitudinal Nested Case-Control Study. <i>Biological Psychiatry</i> , 2017, 81, 145-153.	0.7	100
66	Neural representation of verb meaning: An fMRI study. <i>Human Brain Mapping</i> , 2002, 15, 124-134.	1.9	99
67	Cerebral Blood Flow in Posterior Cortical Nodes of the Default Mode Network Decreases with Task Engagement but Remains Higher than in Most Brain Regions. <i>Cerebral Cortex</i> , 2011, 21, 233-244.	1.6	99
68	Strategies for reducing respiratory motion artifacts in renal perfusion imaging with arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1374-1387.	1.9	97
69	Ageing, Brain Disease, and Reserve: Implications for Delirium. <i>American Journal of Geriatric Psychiatry</i> , 2010, 18, 117-127.	0.6	97
70	Acute effects of singleâ€œdose aripiprazole and haloperidol on resting cerebral blood flow (rCBF) in the human brain. <i>Human Brain Mapping</i> , 2013, 34, 272-282.	1.9	97
71	Neural substrates of vulnerability to postsurgical delirium as revealed by presurgical diffusion MRI. <i>Brain</i> , 2016, 139, 1282-1294.	3.7	96
72	High Câ€œReactive Protein Predicts Delirium Incidence, Duration, and Feature Severity After Major Noncardiac Surgery. <i>Journal of the American Geriatrics Society</i> , 2017, 65, e109-e116.	1.3	93

#	ARTICLE	IF	CITATIONS
73	Amide proton transfer imaging with improved robustness to magnetic field inhomogeneity and magnetization transfer asymmetry using saturation with frequency alternating RF irradiation. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1275-1285.	1.9	92
74	Functional MRI and the Wada test provide complementary information for predicting post-operative seizure control. <i>Seizure: the Journal of the British Epilepsy Association</i> , 1999, 8, 450-455.	0.9	90
75	Parkinson's Disease Spatial Covariance Pattern: Noninvasive Quantification with Perfusion MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 505-509.	2.4	90
76	Arterial Spin-labeling MR Imaging of Renal Masses: Correlation with Histopathologic Findings. <i>Radiology</i> , 2012, 265, 799-808.	3.6	88
77	Optimization of background suppression for arterial spin labeling perfusion imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 127-133.	1.1	87
78	The Relationships among MRI-Defined Spinal Cord Involvement, Brain Involvement, and Disability in Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2012, 22, 122-128.	1.0	87
79	Volumetric measurement of perfusion and arterial transit delay using hadamard encoded continuous arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1014-1022.	1.9	86
80	A spiral volume coil for improved RF field homogeneity at high static magnetic field strength. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 49-54.	1.9	84
81	Arterial Spin-Label Imaging in Patients with Normal Bolus Perfusion-weighted MR Imaging Findings: Pilot Identification of the Borderzone Sign. <i>Radiology</i> , 2009, 252, 797-807.	3.6	83
82	The efficiency of adiabatic inversion for perfusion imaging by arterial spin labeling. , 1997, 10, 216-221.		82
83	Attentional modulation of emotional stimulus processing: An fMRI study using emotional expectancy. <i>Human Brain Mapping</i> , 2006, 27, 662-677.	1.9	81
84	Consensus-based technical recommendations for clinical translation of renal ASL MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 141-161.	1.1	80
85	Detection of Acute Pathologic Changes following Experimental Traumatic Brain Injury Using Diffusion-Weighted Magnetic Resonance Imaging. <i>Journal of Neurotrauma</i> , 1996, 13, 515-521.	1.7	78
86	Magnetic resonance imaging as a biomarker in renal cell carcinoma. <i>Cancer</i> , 2009, 115, 2334-2345.	2.0	77
87	A Selective Insular Perfusion Deficit Contributes to Compromised Salience Network Connectivity in Recovering Alcoholic Men. <i>Biological Psychiatry</i> , 2013, 74, 547-555.	0.7	76
88	The Successful Aging After Elective Surgery Study: Cohort Description and Data Quality Procedures. <i>Journal of the American Geriatrics Society</i> , 2015, 63, 2463-2471.	1.3	75
89	Personality factors correlate with regional cerebral perfusion. <i>NeuroImage</i> , 2006, 31, 489-495.	2.1	74
90	Mapping of secondary somatosensory cortex activation induced by vibrational stimulation: an fMRI study. <i>Brain Research</i> , 1999, 824, 291-295.	1.1	72

#	ARTICLE	IF	CITATIONS
91	3ÂT MRI relaxometry detects T2 prolongation in the cerebral normal-appearing white matter in multiple sclerosis. <i>NeuroImage</i> , 2009, 46, 633-641.	2.1	72
92	Coupling of Cortical and Thalamic Ictal Activity in Human Partial Epilepsy: Demonstration by Functional Magnetic Resonance Imaging. <i>Epilepsia</i> , 1996, 37, 657-661.	2.6	71
93	Contributors to contrast between glioma and brain tissue in chemical exchange saturation transfer sensitive imaging at 3Tesla. <i>NeuroImage</i> , 2014, 99, 256-268.	2.1	70
94	Susceptibility Contrast and Arterial Spin Labeled Perfusion MRI in Cerebrovascular Disease. <i>Journal of Neuroimaging</i> , 2003, 13, 17-27.	1.0	69
95	A structural basis for reading fluency: White matter defects in a genetic brain malformation. <i>Neurology</i> , 2007, 69, 2146-2154.	1.5	69
96	Adhesion Molecules, Altered Vasoreactivity, and Brain Atrophy in Type 2 Diabetes. <i>Diabetes Care</i> , 2011, 34, 2438-2441.	4.3	69
97	Hypertension and Cerebral Vasoreactivity. <i>Hypertension</i> , 2010, 56, 859-864.	1.3	68
98	Combined T2* and T1 measurements for improved perfusion and permeability studies in high field using dynamic contrast enhancement. <i>European Radiology</i> , 2006, 16, 2083-2091.	2.3	67
99	Dissociable effects of methylphenidate, atomoxetine and placebo on regional cerebral blood flow in healthy volunteers at rest: A multi-class pattern recognition approach. <i>NeuroImage</i> , 2012, 60, 1015-1024.	2.1	67
100	Anti-S1P Antibody as a Novel Therapeutic Strategy for VEGFR TKI-Resistant Renal Cancer. <i>Clinical Cancer Research</i> , 2015, 21, 1925-1934.	3.2	67
101	Evaluation of systematic quantification errors in velocity-selective arterial spin labeling of the brain. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 145-153.	1.9	65
102	Time-resolved Vessel-selective Digital Subtraction MR Angiography of the Cerebral Vasculature with Arterial Spin Labeling. <i>Radiology</i> , 2010, 257, 507-515.	3.6	64
103	Resistance of Renal Cell Carcinoma to Sorafenib Is Mediated by Potentially Reversible Gene Expression. <i>PLoS ONE</i> , 2011, 6, e19144.	1.1	64
104	Intermolecular zero-quantum coherence imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 627-632.	1.9	63
105	Renal Cancer Resistance to Antiangiogenic Therapy Is Delayed by Restoration of Angiostatic Signaling. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 2793-2802.	1.9	63
106	New Magnetic Resonance Imaging Techniques for the Evaluation of Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 1995, 12, 573-577.	1.7	62
107	Review Article: The Role of Neuroimaging in Elucidating Delirium Pathophysiology. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 1287-1293.	1.7	61
108	Volumetric cerebral perfusion imaging in healthy adults: Regional distribution, laterality, and repeatability of pulsed continuous arterial spin labeling (PCASL). <i>Psychiatry Research - Neuroimaging</i> , 2010, 182, 266-273.	0.9	61

#	ARTICLE	IF	CITATIONS
109	Maximizing Clinical Research Participation in Vulnerable Older Persons: Identification of Barriers and Motivators. <i>Journal of the American Geriatrics Society</i> , 2008, 56, 1522-1527.	1.3	60
110	Reduced susceptibility effects in perfusion fMRI with single-shot spin-echo EPI acquisitions at 1.5 tesla. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1-7.	1.0	59
111	A multislice gradient echo pulse sequence for CEST imaging. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 253-256.	1.9	59
112	Sentence Processing Strategies in Healthy Seniors with Poor Comprehension: An fMRI Study. <i>Brain and Language</i> , 2002, 80, 296-313.	0.8	58
113	Neural basis for sentence comprehension deficits in frontotemporal dementia. <i>Brain and Language</i> , 2003, 85, 211-221.	0.8	57
114	Markedly Reduced Apparent Blood Volume on Bolus Contrast Magnetic Resonance Imaging as a Predictor of Hemorrhage After Thrombolytic Therapy for Acute Ischemic Stroke. <i>Stroke</i> , 2005, 36, 746-750.	1.0	57
115	Assessment of functional development in normal infant brain using arterial spin labeled perfusion MRI. <i>NeuroImage</i> , 2008, 39, 973-978.	2.1	57
116	A comparison of inhomogeneous magnetization transfer, myelin volume fraction, and diffusion tensor imaging measures in healthy children. <i>NeuroImage</i> , 2018, 182, 343-350.	2.1	57
117	Optimization of torque-balanced asymmetric head gradient coils. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 875-886.	1.9	56
118	Increased cerebral perfusion in adult attention deficit hyperactivity disorder is normalised by stimulant treatment: A non-invasive MRI pilot study. <i>NeuroImage</i> , 2008, 42, 36-41.	2.1	55
119	A method for in vivo high resolution MRI of rat spinal cord injury. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 218-223.	1.9	53
120	Neural Basis for Verb Processing in Alzheimer's Disease: An fMRI Study.. <i>Neuropsychology</i> , 2003, 17, 658-674.	1.0	53
121	Association of Blood Pressure Elevation and Nocturnal Dipping With Brain Atrophy, Perfusion and Functional Measures in Stroke and Nonstroke Individuals. <i>American Journal of Hypertension</i> , 2010, 23, 17-23.	1.0	53
122	Effects of cord motion on diffusion imaging of the spinal cord. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 334-339.	1.9	51
123	Effects of arterial transit delay on cerebral blood flow quantification using arterial spin labeling in an elderly cohort. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 472-481.	1.9	51
124	Brain atrophy and white-matter hyperintensities are not significantly associated with incidence and severity of postoperative delirium in older persons without dementia. <i>Neurobiology of Aging</i> , 2015, 36, 2122-2129.	1.5	50
125	Cognitive and brain reserve and the risk of postoperative delirium in older patients: analysis of data from a prospective observational study. <i>Lancet Psychiatry</i> , 2014, 1, 437-443.	3.7	48
126	Improving the robustness of pseudo-continuous arterial spin labeling to off-resonance and pulsatile flow velocity. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1342-1351.	1.9	46

#	ARTICLE	IF	CITATIONS
127	Relativistic magnetosonic solitons with reflected particles in electron-positron plasmas. <i>Physics of Fluids</i> , 1988, 31, 839.	1.4	45
128	Neural Correlates of Successful and Unsuccessful Verbal Memory Encoding. <i>Brain and Language</i> , 2002, 80, 287-295.	0.8	45
129	Measurement of arterial input functions for dynamic susceptibility contrast magnetic resonance imaging using echoplanar images: Comparison of physical simulations with in vivo results. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 514-523.	1.9	44
130	Technical recommendations for clinical translation of renal MRI: a consensus project of the Cooperation in Science and Technology Action PARENCHIMA. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 131-140.	1.1	44
131	Magnetization transfer from inhomogeneously broadened lines (ihMT): Experimental optimization of saturation parameters for human brain imaging at 1.5 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2111-2121.	1.9	43
132	Quantifying fluctuations of resting state networks using arterial spin labeling perfusion MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 463-473.	2.4	43
133	Evaluation of the Sensitivity of Inhomogeneous Magnetization Transfer (ihMT) MRI for Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , 2018, 39, 634-641.	1.2	42
134	White matter hyperintensities and dynamics of postural control. <i>Magnetic Resonance Imaging</i> , 2009, 27, 752-759.	1.0	40
135	Metabolic profile of PML lesions in patients with and without IRIS. <i>Neurology</i> , 2012, 79, 1041-1048.	1.5	40
136	Differentiating maturational and training influences on fMRI activation during music processing. <i>NeuroImage</i> , 2012, 60, 1902-1912.	2.1	40
137	The Role of Angiopoietins as Potential Therapeutic Targets in Renal Cell Carcinoma. <i>Translational Oncology</i> , 2014, 7, 188-195.	1.7	40
138	Modified pulsed continuous arterial spin labeling for labeling of a single artery. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 975-982.	1.9	38
139	Perfusion imaging with a freely diffusible hyperpolarized contrast agent. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 746-755.	1.9	38
140	Preoperative Cognitive Performance Dominates Risk for Delirium Among Older Adults. <i>Journal of Geriatric Psychiatry and Neurology</i> , 2016, 29, 320-327.	1.2	38
141	Imaging melody and rhythm processing in young children. <i>NeuroReport</i> , 2004, 15, 1723-1726.	0.6	37
142	Cerebrospinal fluid matrix metalloproteinase-9 increases during treatment of recurrent malignant gliomas. <i>Cerebrospinal Fluid Research</i> , 2008, 5, 1.	0.5	36
143	Whole brain inhomogeneous magnetization transfer (ihMT) imaging: Sensitivity enhancement within a steady-state gradient echo sequence. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2607-2619.	1.9	36
144	A quantitative method for correlating observations of decreased apparent diffusion coefficient with elevated cerebral blood perfusion in newborns presenting cerebral ischemic insults. <i>NeuroImage</i> , 2012, 63, 1510-1518.	2.1	35

#	ARTICLE	IF	CITATIONS
145	Arterial spin labeling MR imaging for characterisation of renal masses in patients with impaired renal function: initial experience. <i>European Radiology</i> , 2012, 22, 484-492.	2.3	35
146	Microstructural correlates of 3D steady-state inhomogeneous magnetization transfer (ihMT) in the human brain white matter assessed by myelin water imaging and diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2402-2414.	1.9	34
147	A bolometric millimeter-wave system for observations of anisotropy in the cosmic microwave background radiation on medium angular scales. <i>Astrophysical Journal</i> , 1992, 388, 242.	1.6	34
148	Continuous Arterial Spin Labeled Perfusion Magnetic Resonance Imaging in Patients before and after Carotid Endarterectomy. <i>Journal of Neuroimaging</i> , 2004, 14, 133-138.	1.0	33
149	Cox-2 inhibition enhances the activity of sunitinib in human renal cell carcinoma xenografts. <i>British Journal of Cancer</i> , 2013, 108, 319-326.	2.9	33
150	Hyperintense cortical signal on magnetic resonance imaging reflects focal leukocortical encephalitis and seizure risk in progressive multifocal leukoencephalopathy. <i>Annals of Neurology</i> , 2014, 75, 659-669.	2.8	32
151	Impact of multisession 40Hz tACS on hippocampal perfusion in patients with Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 203.	3.0	32
152	In vivo measurement of a new source of contrast, the dipolar relaxation time, T_{1D} , using a modified inhomogeneous magnetization transfer (ihMT) sequence. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1362-1372.	1.9	31
153	Longitudinal diffusion changes following postoperative delirium in older people without dementia. <i>Neurology</i> , 2017, 89, 1020-1027.	1.5	31
154	Development of a Dynamic Multi-Protein Signature of Postoperative Delirium. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 261-268.	1.7	31
155	Association cortex hypoperfusion in mild dementia with Lewy bodies: a potential indicator of cholinergic dysfunction?. <i>Brain Imaging and Behavior</i> , 2011, 5, 25-35.	1.1	30
156	Optimization of inhomogeneous magnetization transfer (ihMT) MRI contrast for preclinical studies using dipolar relaxation time (T_{1D}) filtering. <i>NMR in Biomedicine</i> , 2017, 30, e3706.	1.6	30
157	Volumetric Arterial Spin-labeled Perfusion Imaging of the Kidneys with a Three-dimensional Fast Spin Echo Acquisition. <i>Academic Radiology</i> , 2016, 23, 144-154.	1.3	28
158	Alzheimer's-related cortical atrophy is associated with postoperative delirium severity in persons without dementia. <i>Neurobiology of Aging</i> , 2017, 59, 55-63.	1.5	28
159	Blood flow quantification of the human retina with MRI. <i>NMR in Biomedicine</i> , 2011, 24, 104-111.	1.6	27
160	Effects of Atorvastatin on Cerebral Blood Flow in Middle-Aged Adults at Risk for Alzheimer's Disease: A Pilot Study. <i>Current Alzheimer Research</i> , 2012, 9, 990-997.	0.7	27
161	Magnetization transfer from inhomogeneously broadened lines (ihMT): Improved imaging strategy for spinal cord applications. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 581-591.	1.9	27
162	Effects of tDCS dose and electrode montage on regional cerebral blood flow and motor behavior. <i>NeuroImage</i> , 2021, 237, 118144.	2.1	27

#	ARTICLE	IF	CITATIONS
163	Velocity-selective arterial spin labeling perfusion MRI: A review of the state of the art and recommendations for clinical implementation. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1528-1547.	1.9	27
164	A search for anisotropy in the cosmic microwave background on intermediate angular scales. <i>Astrophysical Journal</i> , 1992, 395, 317.	1.6	26
165	Susceptibility contrast and arterial spin labeled perfusion MRI in cerebrovascular disease. , 2003, 13, 17-27.		26
166	Cerebral blood flow MRI in the nondemented elderly is not predictive of post-operative delirium but is correlated with cognitive performance. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1386-1397.	2.4	25
167	High dose intermittent sorafenib shows improved efficacy over conventional continuous dose in renal cell carcinoma. <i>Journal of Translational Medicine</i> , 2011, 9, 220.	1.8	24
168	Functional Activation during an Auditory Comprehension Task in Patients with Temporal Lobe Lesions. <i>NeuroImage</i> , 1996, 4, 55-59.	2.1	23
169	Diffusion and Perfusion MRI in Epilepsy. <i>Epilepsia</i> , 2002, 43, 69-77.	2.6	23
170	Selective spectroscopic imaging of hyperpolarized pyruvate and its metabolites using a single-echo variable phase advance method in balanced SSFP. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1102-1115.	1.9	23
171	Brain MR Imaging at Ultra-low Radiofrequency Power. <i>Radiology</i> , 2011, 259, 550-557.	3.6	21
172	Pseudo-continuous arterial spin labeling at very high magnetic field (11.75 T) for high-resolution mouse brain perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1225-1236.	1.9	21
173	Effects of resting state condition on reliability, trait specificity, and network connectivity of brain function measured with arterial spin labeled perfusion MRI. <i>NeuroImage</i> , 2018, 173, 165-175.	2.1	21
174	Inhibition of ALK1 signaling with dalantercept combined with VEGFR TKI leads to tumor stasis in renal cell carcinoma. <i>Oncotarget</i> , 0, 7, 41857-41869.	0.8	21
175	Limits on activation-induced temperature and metabolic changes in the human primary visual cortex. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 348-355.	1.9	20
176	Minimizing the effects of magnetization transfer asymmetry on inhomogeneous magnetization transfer (ihMT) at ultra-high magnetic field (11.75T). <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 699-709.	1.1	19
177	Cine MRI of Tracheal Dynamics in Healthy Volunteers and Patients With Tracheobronchomalacia. <i>American Journal of Roentgenology</i> , 2017, 209, 757-761.	1.0	19
178	MRI assessment of multiple dipolar relaxation time (T_{ρ}) components in biological tissues interpreted with a generalized inhomogeneous magnetization transfer (ihMT) model. <i>Journal of Magnetic Resonance</i> , 2020, 311, 106668.	1.2	19
179	Non-invasive measurement of choroid plexus apparent blood flow with arterial spin labeling. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 58.	2.4	19
180	Phase I study of low-dose metronomic temozolomide for recurrent malignant gliomas. <i>BMC Cancer</i> , 2016, 16, 914.	1.1	18

#	ARTICLE	IF	CITATIONS
181	Head circumference as a useful surrogate for intracranial volume in older adults. <i>International Psychogeriatrics</i> , 2016, 28, 157-162.	0.6	18
182	Influence of background suppression and retrospective realignment on free-breathing renal perfusion measurement using pseudo-continuous ASL. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2439-2449.	1.9	18
183	Characterization of the cortical myeloarchitecture with inhomogeneous magnetization transfer imaging (ihMT). <i>NeuroImage</i> , 2021, 225, 117442.	2.1	17
184	Hyperperfusion in progressive multifocal leukoencephalopathy is associated with disease progression and absence of immune reconstitution inflammatory syndrome. <i>Brain</i> , 2013, 136, 3441-3450.	3.7	16
185	Controlling T_2 blurring in 3D RARE arterial spin labeling acquisition through optimal combination of variable flip angles and k -space filtering. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1391-1401.	1.9	16
186	Sensitivity calibration with a uniform magnetization image to improve arterial spin labeling perfusion quantification. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1590-1600.	1.9	15
187	Global fluctuations of cerebral blood flow indicate a global brain network independent of systemic factors. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 302-312.	2.4	15
188	Correlation of diffusion MRI and heat shock protein in a rat embolic stroke model. <i>Journal of the Neurological Sciences</i> , 1997, 148, 163-169.	0.3	14
189	Volumetric abdominal perfusion measurement using a pseudo-randomly sampled 3D fast-spin-echo (FSE) arterial spin labeling (ASL) sequence and compressed sensing reconstruction. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 680-692.	1.9	14
190	Inhibition of Sphingosine Phosphate Receptor 1 Signaling Enhances the Efficacy of VEGF Receptor Inhibition. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 856-867.	1.9	14
191	Older Patients with Alzheimer's Disease-Related Cortical Atrophy Who Develop Post-Operative Delirium May Be at Increased Risk of Long-Term Cognitive Decline After Surgery. <i>Journal of Alzheimer's Disease</i> , 2020, 75, 187-199.	1.2	14
192	In vivo estimation of the flow-driven adiabatic inversion efficiency for continuous arterial spin labeling: A method using phase contrast magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1291-1297.	1.9	13
193	Perfusion MRI Demonstrates Crossed-Cerebellar Diaschisis in Sickle Cell Disease. <i>Pediatric Neurology</i> , 2010, 42, 437-440.	1.0	13
194	The Effect of Hypercarbia and Hyperoxia on the Total Blood Flow to the Retina as Assessed by Magnetic Resonance Imaging. , 2011, 52, 6867.		13
195	Resting-state cerebral blood flow in amygdala is modulated by sex and serotonin transporter genotype. <i>NeuroImage</i> , 2013, 76, 90-97.	2.1	13
196	Three-dimensional inhomogeneous magnetization transfer with rapid gradient-echo (3D ihMTRAGE) imaging. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2964-2980.	1.9	13
197	Arterial Spin Labeled Perfusion MRI for the Evaluation of Response to Tyrosine Kinase Inhibition Therapy in Metastatic Renal Cell Carcinoma. <i>Radiology</i> , 2021, 298, 332-340.	3.6	13
198	Diffusion restriction in the human spinal cord characterized in vivo with high b-value STEAM diffusion imaging. <i>NeuroImage</i> , 2013, 82, 416-425.	2.1	12

#	ARTICLE	IF	CITATIONS
199	Association Between Hospital Readmission and Acute and Sustained Delays in Functional Recovery During 18 Months After Elective Surgery: The Successful Aging after Elective Surgery Study. <i>Journal of the American Geriatrics Society</i> , 2017, 65, 51-58.	1.3	12
200	Methodologic considerations in the design and analysis of nested case-control studies: association between cytokines and postoperative delirium. <i>BMC Medical Research Methodology</i> , 2017, 17, 88.	1.4	12
201	Choroid Plexus Segmentation Using Optimized 3D U-Net. , 2020, , .		10
202	<title>Effect of spatial normalization on analysis of functional data</title>. , 1997, , .		9
203	Continuous Arterial Spin Labeling Perfusion Magnetic Resonance Imaging Findings in Postpartum Vasculopathy. <i>Journal of Neuroimaging</i> , 2001, 11, 444-446.	1.0	9
204	Regional and depth-dependence of cortical blood-flow assessed with high-resolution Arterial Spin Labeling (ASL). <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 0271678X2098238.	2.4	9
205	Structural integrity of the anterior mid-cingulate cortex contributes to resilience to delirium in SuperAging. <i>Brain Communications</i> , 2022, 4, .	1.5	9
206	Three-dimensional brain MRI for DBS patients within ultra-low radiofrequency power limits. <i>Movement Disorders</i> , 2014, 29, 546-549.	2.2	8
207	Abnormal perfusion fluctuation and perfusion connectivity in bipolar disorder measured by dynamic arterial spin labeling. <i>Bipolar Disorders</i> , 2020, 22, 401-410.	1.1	8
208	Rotated spiral RARE for high spatial and temporal resolution volumetric arterial spin labeling acquisition. <i>NeuroImage</i> , 2020, 223, 117371.	2.1	8
209	T ₁ -weighted ihMT imaging – Part II. Investigating the long- and short-T ₁ components correlation with myelin content. Comparison with R ₁ and the macromolecular proton fraction. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2329-2346.	1.9	8
210	Preliminary results from the third flight of the Millimeter Anisotropy Experiment (MAX).. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 4774-4776.	3.3	7
211	Activation and baseline changes in functional MRI studies of Alzheimer disease. <i>Neurology</i> , 2007, 69, 1645-1646.	1.5	7
212	B1-insensitive fast spin echo using adiabatic square wave enabling of the echo train (SWEET) excitation. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1386-1393.	1.9	7
213	Flight performance of a rocket-borne 3He refrigerator. <i>Cryogenics</i> , 1991, 31, 338-340.	0.9	6
214	Arterial spin labeling: its time is now. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 75-77.	1.1	6
215	Using Anatomic Magnetic Resonance Image Information to Enhance Visualization and Interpretation of Functional Images: A Comparison of Methods Applied to Clinical Arterial Spin Labeling Images. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 487-496.	5.4	6
216	Pancreatic perfusion and arterial transit time quantification using pseudocontinuous arterial spin labeling at 3T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 542-550.	1.9	6

#	ARTICLE	IF	CITATIONS
217	Combining inhomogeneous magnetization transfer and multipoint Dixon acquisition: Potential utility and evaluation. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2136-2144.	1.9	6
218	A strategy to reduce the sensitivity of inhomogeneous magnetization transfer (ihMT) imaging to radiofrequency transmit field variations at 3 T. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1346-1359.	1.9	6
219	T ₁ -weighted ihMT imaging – Part I. Isolation of long- and short-T ₁ components by T ₁ -filtering. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2313-2328.	1.9	6
220	Cortical Reorganization in Linear Nevus Sebaceous Syndrome: A Multimodality Neuroimaging Study. <i>Journal of Neuroimaging</i> , 2000, 10, 225-228.	1.0	5
221	Atorvastatin Therapy is Associated with Greater and Faster Cerebral Hemodynamic Response. <i>Brain Imaging and Behavior</i> , 2008, 2, 94-104.	1.1	5
222	Optimized double inversion recovery for reduction of T ₁ weighting in fluid-attenuated inversion recovery. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 81-88.	1.9	5
223	Modulating transcallosal and intra-hemispheric brain connectivity with tDCS: Implications for interventions in Aphasia. <i>Restorative Neurology and Neuroscience</i> , 2016, 34, 519-530.	0.4	5
224	Pancreatic perfusion modulation following glucose stimulation assessed by noninvasive arterial spin labeling (ASL) MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 854-860.	1.9	5
225	Susceptibility Contrast and Arterial Spin Labeled Perfusion MRI in Cerebrovascular Disease. , 2003, 13, 17.		5
226	Continuous Arterial Spin Labeled Perfusion Magnetic Resonance Imaging in Patients before and after Carotid Endarterectomy. , 2004, 14, 133.		4
227	Neuropsychologic Performance After Resection of an Activation Cluster Involved in Cognitive Memory Function. <i>American Journal of Roentgenology</i> , 2001, 176, 541-544.	1.0	3
228	Improved short tau inversion recovery (iSTIR) for increased tumor conspicuity in the abdomen. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 245-255.	1.1	3
229	Abstract LB-313: ALK1-Fc inhibits tumor growth in a VEGF pathway resistance model of renal cell carcinoma. , 2012, , .		3
230	A randomized controlled trial measuring changes in cerebral blood flow after levetiracetam in patients with Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e045476.	0.4	2
231	Priming of Sorafenib Prior to Radiofrequency Ablation Does Not Increase Treatment Effect in Hepatocellular Carcinoma. <i>Digestive Diseases and Sciences</i> , 2021, , 1.	1.1	2
232	Noninvasive magnetic resonance imaging evaluation of cerebral blood flow with acetazolamide challenge in patients with cerebrovascular stenosis. , 1999, 10, 870.		2
233	Brain Activity Mapping with Functional MR Imaging. <i>Academic Radiology</i> , 2001, 8, 1195-1197.	1.3	1
234	Perfusion imaging with arterial spin labelling. , 2003, , 161-174.		1

#	ARTICLE	IF	CITATIONS
235	Amide proton transfer imaging with improved robustness to magnetic field inhomogeneity and magnetization transfer asymmetry using saturation with frequency alternating RF irradiation. <i>Magnetic Resonance in Medicine</i> , 2011, 66, spcone-spcone.	1.9	1
236	Reply to: "Neuroinflammation in HCV-infection" Peril or protection? <i>Journal of Hepatology</i> , 2012, 57, 923-924.	1.8	1
237	Reply: Neural substrates of vulnerability to post-surgical delirium with prospective diagnosis: Table 1. <i>Brain</i> , 2016, 139, e55-e55.	3.7	1
238	State of the Art and Promise of Structural Neuroimaging in Postoperative Delirium and Postoperative Cognitive Decline. <i>American Journal of Geriatric Psychiatry</i> , 2017, 25, 1062-1063.	0.6	1
239	Assessment of cerebral blood flow in Alzheimer's disease by spin-labeled magnetic resonance imaging. , 2000, 47, 93.		1
240	Inhibition of tumor growth in a VEGFR TKI-resistant model of renal cell carcinoma using dalantercept combined with sunitinib.. <i>Journal of Clinical Oncology</i> , 2013, 31, 370-370.	0.8	1
241	565. Integrated ERP/fMRI analysis of deviance processing in schizophrenia. <i>Biological Psychiatry</i> , 2000, 47, S172.	0.7	0
242	MP85-07 FUNCTIONAL NEUROIMAGING OF URINE STORAGE AND VOIDING IN MICE. <i>Journal of Urology</i> , 2017, 197, .	0.2	0
243	1773-P: Postprandial Hyperglycemia after a High-Glycemic Index Meal Activates Brain Areas Associated with Food Cravings and Overeating in T1D. <i>Diabetes</i> , 2020, 69, 1773-P.	0.3	0