David C Alsop

List of Publications by Year
in descending order

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243 papers	24,203 citations	6254 80 h-index	8167 148 g-index
257 all docs	257 docs citations	257 times ranked	21445 citing authors

#	Article	IF	Citations
1	Recommended implementation of arterial spinâ€labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. Magnetic Resonance in Medicine, 2015, 73, 102-116.	3.0	1,663
2	The neural basis of the central executive system of working memory. Nature, 1995, 378, 279-281.	27.8	1,397
3	Continuous flowâ€driven inversion for arterial spin labeling using pulsed radio frequency and gradient fields. Magnetic Resonance in Medicine, 2008, 60, 1488-1497.	3.0	872
4	MR Imaging Relaxation Times of Abdominal and Pelvic Tissues Measured in Vivo at 3.0 T: Preliminary Results. Radiology, 2004, 230, 652-659.	7.3	693
5	The Parahippocampus Subserves Topographical Learning in Man. Cerebral Cortex, 1996, 6, 823-829.	2.9	567
6	An fMRI Study of Facial Emotion Processing in Patients With Schizophrenia. American Journal of Psychiatry, 2002, 159, 1992-1999.	7.2	488
7	A functional MRI study of mental image generation. Neuropsychologia, 1997, 35, 725-730.	1.6	470
8	Magnetic Resonance Perfusion Imaging in Acute Ischemic Stroke Using Continuous Arterial Spin Labeling. Stroke, 2000, 31, 680-687.	2.0	452
9	Assessment of cerebral blood flow in Alzheimer's disease by spin-labeled magnetic resonance imaging. Annals of Neurology, 2000, 47, 93-100.	5.3	381
10	Experimental Design and the Relative Sensitivity of BOLD and Perfusion fMRI. NeuroImage, 2002, 15, 488-500.	4.2	365
11	Comparison of quantitative perfusion imaging using arterial spin labeling at 1.5 and 4.0 Tesla. Magnetic Resonance in Medicine, 2002, 48, 242-254.	3.0	346
12	Effects of transcranial direct current stimulation (tDCS) on human regional cerebral blood flow. NeuroImage, 2011, 58, 26-33.	4.2	340
13	An fMRI Study of Sex Differences in Regional Activation to a Verbal and a Spatial Task. Brain and Language, 2000, 74, 157-170.	1.6	333
14	Adults and children processing music: An fMRI study. NeuroImage, 2005, 25, 1068-1076.	4.2	333
15	Structural integrity of corticospinal motor fibers predicts motor impairment in chronic stroke. Neurology, 2010, 74, 280-287.	1.1	322
16	The shortâ€term and longâ€term relationship between delirium andÂcognitive trajectory in older surgical patients. Alzheimer's and Dementia, 2016, 12, 766-775.	0.8	317
17	Brain Activation during Facial Emotion Processing. NeuroImage, 2002, 16, 651-662.	4.2	293
18	Perfusion magnetic resonance imaging with continuous arterial spin labeling: methods and clinical applications in the central nervous system. European Journal of Radiology, 1999, 30, 115-124.	2.6	281

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19	Sleep-dependent motor memory plasticity in the human brain. Neuroscience, 2005, 133, 911-917.	2.3	266
20	Amplitude-modulated Continuous Arterial Spin-labeling 3.0-T Perfusion MR Imaging with a Single Coil: Feasibility Study. Radiology, 2005, 235, 218-228.	7.3	265
21	Age-related differences in brain activation during emotional face processing. Neurobiology of Aging, 2003, 24, 285-295.	3.1	258
22	Tone Deafness: A New Disconnection Syndrome?. Journal of Neuroscience, 2009, 29, 10215-10220.	3.6	256
23	Reliability and precision of pseudoâ€continuous arterial spin labeling perfusion MRI on 3.0â€‰T and comparison with ¹⁵Oâ€water PET in elderly subjects at risk for Alzheimer's disease. NMR in Biomedicine, 2010, 23, 286-293.	2.8	248
24	Arterial transit time imaging with flow encoding arterial spin tagging (FEAST). Magnetic Resonance in Medicine, 2003, 50, 599-607.	3.0	240
25	Functional Magnetic Resonance Imaging of Regional Brain Activity in Patients with Intracerebral Gliomas: Findings and Implications for Clinical Management. Neurosurgery, 1996, 38, 329-338.	1.1	237
26	Neural Specialization for Letter Recognition. Journal of Cognitive Neuroscience, 2002, 14, 145-159.	2.3	236
27	Efficiency of inversion pulses for background suppressed arterial spin labeling. Magnetic Resonance in Medicine, 2005, 54, 366-372.	3.0	233
28	Neural basis for sentence comprehension: Grammatical and short-term memory components. Human Brain Mapping, 2002, 15, 80-94.	3.6	221
29	Age dependence of cerebral perfusion assessed by magnetic resonance continuous arterial spin labeling. Journal of Magnetic Resonance Imaging, 2007, 25, 696-702.	3.4	221
30	Global and Regional Effects of Type 2 Diabetes on Brain Tissue Volumes and Cerebral Vasoreactivity. Diabetes Care, 2007, 30, 1193-1199.	8.6	211
31	Arterial Spin Labeling Blood Flow MRI: Its Role in the Early Characterization of Alzheimer's Disease. Journal of Alzheimer's Disease, 2010, 20, 871-880.	2.6	189
32	Postoperative Delirium and Postoperative Cognitive Dysfunction. Anesthesiology, 2019, 131, 477-491.	2.5	183
33	The Sensory Somatotopic Map of the Human Hand Demonstrated at 4 Tesla. NeuroImage, 1999, 10, 55-62.	4.2	181
34	Immediate coma following inertial brain injury dependent on axonal damage in the brainstem. Journal of Neurosurgery, 2000, 93, 315-322.	1.6	177
35	Arterial spin labelling reveals an abnormal cerebral perfusion pattern in Parkinson's disease. Brain, 2011, 134, 845-855.	7.6	173
36	T2* and proton density measurement of normal human lung parenchyma using submillisecond echo time gradient echo magnetic resonance imaging. European Journal of Radiology, 1999, 29, 245-252.	2.6	168

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37	Phase insensitive preparation of single-shot RARE: Application to diffusion imaging in humans. Magnetic Resonance in Medicine, 1997, 38, 527-533.	3.0	164
38	Cerebral perfusion and arterial transit time changes during task activation determined with continuous arterial spin labeling. Magnetic Resonance in Medicine, 2000, 43, 739-746.	3.0	163
39	Age-Related Changes in Working Memory during Sentence Comprehension: An fMRI Study. NeuroImage, 2002, 15, 302-317.	4.2	160
40	Hippocampal hyperperfusion in Alzheimer's disease. NeuroImage, 2008, 42, 1267-1274.	4.2	159
41	Perfusion MRI of brain tumours: a comparative study of pseudo-continuous arterial spin labelling and dynamic susceptibility contrast imaging. Neuroradiology, 2010, 52, 307-317.	2.2	158
42	Gender effects on odor-stimulated functional magnetic resonance imaging. Brain Research, 1999, 818, 480-487.	2.2	157
43	MRI characterization of diffusion coefficients in a rat spinal cord injury model. Magnetic Resonance in Medicine, 1994, 31, 488-494.	3.0	155
44	Localization of subclinical ictal activity by functional magnetic resonance imaging: Correlation with invasive monitoring. Annals of Neurology, 1995, 38, 618-624.	5.3	155
45	Optical investigations of physiology. A study of intrinsic and extrinsic biomedical contrast. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 707-716.	4.0	152
46	The sensitivity of low flip angle RARE imaging. Magnetic Resonance in Medicine, 1997, 37, 176-184.	3.0	150
47	Functional magnetic resonance imaging of regional brain activity in patients with intracerebral arteriovenous malformations before surgical or endovascular therapy. Journal of Neurosurgery, 1996, 84, 477-483.	1.6	149
48	Reduced resolution transit delay prescan for quantitative continuous arterial spin labeling perfusion imaging. Magnetic Resonance in Medicine, 2012, 67, 1252-1265.	3.0	146
49	Cerebral Blood Flow Velocity and Periventricular White Matter Hyperintensities in Type 2 Diabetes. Diabetes Care, 2006, 29, 1529-1534.	8.6	144
50	Noninvasive magnetic resonance imaging evaluation of cerebral blood flow with acetazolamide challenge in patients with cerebrovascular stenosis. Journal of Magnetic Resonance Imaging, 1999, 10, 870-875.	3.4	129
51	Neural basis for semantic memory difficulty in Alzheimer's disease: an fMRI study. Brain, 2003, 126, 292-311.	7.6	128
52	Review Article: Serum Biomarkers for Delirium. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2006, 61, 1281-1286.	3.6	120
53	Dissociable networks for the expectancy and perception of emotional stimuli in the human brain. NeuroImage, 2006, 30, 588-600.	4.2	118
54	The Neural Basis for Category-Specific Knowledge: An fMRI Study. NeuroImage, 2002, 15, 936-948.	4.2	117

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55	Novel Risk Markers and Long-Term Outcomes of Delirium: The Successful Aging after Elective Surgery (SAGES) Study Design and Methods. Journal of the American Medical Directors Association, 2012, 13, 818.e1-818.e10.	2.5	117
56	Magnetization transfer from inhomogeneously broadened lines: A potential marker for myelin. Magnetic Resonance in Medicine, 2015, 73, 614-622.	3.0	116
57	Effects of anti-viral therapy and HCV clearance on cerebral metabolism and cognition. Journal of Hepatology, 2012, 56, 549-556.	3.7	115
58	Cytokines and Postoperative Delirium in Older Patients Undergoing Major Elective Surgery. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1289-1295.	3.6	115
59	Magnetic Resonance Imagingâ€“Measured Blood Flow Change after Antiangiogenic Therapy with PTK787/ZK 222584 Correlates with Clinical Outcome in Metastatic Renal Cell Carcinoma. Clinical Cancer Research, 2008, 14, 5548-5554.	7.0	111
60	Does Arterial Spin-labeling MR Imagingâ€“measured Tumor Perfusion Correlate with Renal Cell Cancer Response to Antiangiogenic Therapy in a Mouse Model?. Radiology, 2009, 251, 731-742.	7.3	111
61	Treatment of Experimental Intracranial Murine Melanoma with a Neuroattenuated Herpes Simplex Virus 1 Mutant. Virology, 1995, 211, 94-101.	2.4	110
62	Arterial spin labeling blood flow magnetic resonance imaging for the characterization of metastatic renal cell carcinoma1. Academic Radiology, 2005, 12, 347-357.	2.5	108
63	Multi-Slice, Breathhold Imaging of the Lung with Submillisecond Echo Times. Magnetic Resonance in Medicine, 1995, 33, 678-682.	3.0	105
64	Effects of dietary glycemic index on brain regions related to reward and craving in men. American Journal of Clinical Nutrition, 2013, 98, 641-647.	4.7	105
65	Higher C-Reactive Protein Levels Predict Postoperative Delirium in Older Patients Undergoing Major Elective Surgery: A Longitudinal Nested Case-Control Study. Biological Psychiatry, 2017, 81, 145-153.	1.3	100
66	Neural representation of verb meaning: An fMRI study. Human Brain Mapping, 2002, 15, 124-134.	3.6	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. Cerebral Cortex, 2011, 21, 233-244.	2.9	99
68	Strategies for reducing respiratory motion artifacts in renal perfusion imaging with arterial spin labeling. Magnetic Resonance in Medicine, 2009, 61, 1374-1387.	3.0	97
69	Aging, Brain Disease, and Reserve: Implications for Delirium. American Journal of Geriatric Psychiatry, 2010, 18, 117-127.	1.2	97
70	Acute effects of singleâ€dose aripiprazole and haloperidol on resting cerebral blood flow (rCBF) in the human brain. Human Brain Mapping, 2013, 34, 272-282.	3.6	97
71	Neural substrates of vulnerability to postsurgical delirium as revealed by presurgical diffusion MRI. Brain, 2016, 139, 1282-1294.	7.6	96
72	High Câ€Reactive Protein Predicts Delirium Incidence, Duration, and Feature Severity After Major Noncardiac Surgery. Journal of the American Geriatrics Society, 2017, 65, e109-e116.	2.6	93

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73	Amide proton transfer imaging with improved robustness to magnetic field inhomogeneity and magnetization transfer asymmetry using saturation with frequency alternating RF irradiation. Magnetic Resonance in Medicine, 2011, 66, 1275-1285.	3.0	92
74	Functional MRI and the Wada test provide complementary information for predicting post-operative seizure control. Seizure: the Journal of the British Epilepsy Association, 1999, 8, 450-455.	2.0	90
75	Parkinson's Disease Spatial Covariance Pattern: Noninvasive Quantification with Perfusion MRI. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 505-509.	4.3	90
76	Arterial Spin-labeling MR Imaging of Renal Masses: Correlation with Histopathologic Findings. Radiology, 2012, 265, 799-808.	7.3	88
77	Optimization of background suppression for arterial spin labeling perfusion imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 127-133.	2.0	87
78	The Relationships among MRIâ€Defined Spinal Cord Involvement, Brain Involvement, and Disability in Multiple Sclerosis. Journal of Neuroimaging, 2012, 22, 122-128.	2.0	87
79	Volumetric measurement of perfusion and arterial transit delay using hadamard encoded continuous arterial spin labeling. Magnetic Resonance in Medicine, 2013, 69, 1014-1022.	3.0	86
80	A spiral volume coil for improved RF field homogeneity at high static magnetic field strength. Magnetic Resonance in Medicine, 1998, 40, 49-54.	3.0	84
81	Arterial Spin-Label Imaging in Patients with Normal Bolus Perfusion-weighted MR Imaging Findings: Pilot Identification of the Borderzone Sign. Radiology, 2009, 252, 797-807.	7.3	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. Human Brain Mapping, 2006, 27, 662-677.	3.6	81
84	Consensus-based technical recommendations for clinical translation of renal ASL MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 141-161.	2.0	80
85	Detection of Acute Pathologic Changes following Experimental Traumatic Brain Injury Using Diffusion-Weighted Magnetic Resonance Imaging. Journal of Neurotrauma, 1996, 13, 515-521.	3.4	78
86	Magnetic resonance imaging as a biomarker in renal cell carcinoma. Cancer, 2009, 115, 2334-2345.	4.1	77
87	A Selective Insular Perfusion Deficit Contributes to Compromised Salience Network Connectivity in Recovering Alcoholic Men. Biological Psychiatry, 2013, 74, 547-555.	1.3	76
88	The Successful Aging After Elective Surgery Study: Cohort Description and Data Quality Procedures. Journal of the American Geriatrics Society, 2015, 63, 2463-2471.	2.6	75
89	Personality factors correlate with regional cerebral perfusion. NeuroImage, 2006, 31, 489-495.	4.2	74
90	Mapping of secondary somatosensory cortex activation induced by vibrational stimulation: an fMRI study. Brain Research, 1999, 824, 291-295.	2.2	72

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91	3ÂT MRI relaxometry detects T2 prolongation in the cerebral normal-appearing white matter in multiple sclerosis. NeuroImage, 2009, 46, 633-641.	4.2	72
92	Coupling of Cortical and Thalamic Ictal Activity in Human Partial Epilepsy: Demonstration by Functional Magnetic Resonance Imaging. Epilepsia, 1996, 37, 657-661.	5.1	71
93	Contributors to contrast between glioma and brain tissue in chemical exchange saturation transfer sensitive imaging at 3Tesla. NeuroImage, 2014, 99, 256-268.	4.2	70
94	Susceptibility Contrast and Arterial Spin Labeled Perfusion MRI in Cerebrovascular Disease. Journal of Neuroimaging, 2003, 13, 17-27.	2.0	69
95	A structural basis for reading fluency: White matter defects in a genetic brain malformation. Neurology, 2007, 69, 2146-2154.	1.1	69
96	Adhesion Molecules, Altered Vasoreactivity, and Brain Atrophy in Type 2 Diabetes. Diabetes Care, 2011, 34, 2438-2441.	8.6	69
97	Hypertension and Cerebral Vasoreactivity. Hypertension, 2010, 56, 859-864.	2.7	68
98	Combined T2* and T1 measurements for improved perfusion and permeability studies in high field using dynamic contrast enhancement. European Radiology, 2006, 16, 2083-2091.	4.5	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. NeuroImage, 2012, 60, 1015-1024.	4.2	67
100	Anti-S1P Antibody as a Novel Therapeutic Strategy for VEGFR TKI-Resistant Renal Cancer. Clinical Cancer Research, 2015, 21, 1925-1934.	7.0	67
101	Evaluation of systematic quantification errors in velocity-selective arterial spin labeling of the brain. Magnetic Resonance in Medicine, 2003, 50, 145-153.	3.0	65
102	Time-resolved Vessel-selective Digital Subtraction MR Angiography of the Cerebral Vasculature with Arterial Spin Labeling. Radiology, 2010, 257, 507-515.	7.3	64
103	Resistance of Renal Cell Carcinoma to Sorafenib Is Mediated by Potentially Reversible Gene Expression. PLoS ONE, 2011, 6, e19144.	2.5	64
104	Intermolecular zero-quantum coherence imaging of the human brain. Magnetic Resonance in Medicine, 2000, 43, 627-632.	3.0	63
105	Renal Cancer Resistance to Antiangiogenic Therapy Is Delayed by Restoration of Angiostatic Signaling. Molecular Cancer Therapeutics, 2010, 9, 2793-2802.	4.1	63
106	New Magnetic Resonance Imaging Techniques for the Evaluation of Traumatic Brain Injury. Journal of Neurotrauma, 1995, 12, 573-577.	3.4	62
107	Review Article: The Role of Neuroimaging in Elucidating Delirium Pathophysiology. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2006, 61, 1287-1293.	3.6	61
108	Volumetric cerebral perfusion imaging in healthy adults: Regional distribution, laterality, and repeatability of pulsed continuous arterial spin labeling (PCASL). Psychiatry Research - Neuroimaging, 2010, 182, 266-273.	1.8	61

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109	Maximizing Clinical Research Participation in Vulnerable Older Persons: Identification of Barriers and Motivators. Journal of the American Geriatrics Society, 2008, 56, 1522-1527.	2.6	60
110	Reduced susceptibility effects in perfusion fMRI with single-shot spin-echo EPI acquisitions at 1.5 tesla. Magnetic Resonance Imaging, 2004, 22, 1-7.	1.8	59
111	A multislice gradient echo pulse sequence for CEST imaging. Magnetic Resonance in Medicine, 2010, 63, 253-256.	3.0	59
112	Sentence Processing Strategies in Healthy Seniors with Poor Comprehension: An fMRI Study. Brain and Language, 2002, 80, 296-313.	1.6	58
113	Neural basis for sentence comprehension deficits in frontotemporal dementia. Brain and Language, 2003, 85, 211-221.	1.6	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. Stroke, 2005, 36, 746-750.	2.0	57
115	Assessment of functional development in normal infant brain using arterial spin labeled perfusion MRI. NeuroImage, 2008, 39, 973-978.	4.2	57
116	A comparison of inhomogeneous magnetization transfer, myelin volume fraction, and diffusion tensor imaging measures in healthy children. NeuroImage, 2018, 182, 343-350.	4.2	57
117	Optimization of torque-balanced asymmetric head gradient coils. Magnetic Resonance in Medicine, 1996, 35, 875-886.	3.0	56
118	Increased cerebral perfusion in adult attention deficit hyperactivity disorder is normalised by stimulant treatment: A non-invasive MRI pilot study. NeuroImage, 2008, 42, 36-41.	4.2	55
119	A method forin vivo high resolution MRI of rat spinal cord injury. Magnetic Resonance in Medicine, 1994, 31, 218-223.	3.0	53
120	Neural Basis for Verb Processing in Alzheimer's Disease: An fMRI Study.. Neuropsychology, 2003, 17, 658-674.	1.3	53
121	Association of Blood Pressure Elevation and Nocturnal Dipping With Brain Atrophy, Perfusion and Functional Measures in Stroke and Nonstroke Individuals. American Journal of Hypertension, 2010, 23, 17-23.	2.0	53
122	Effects of cord motion on diffusion imaging of the spinal cord. Magnetic Resonance in Medicine, 2006, 56, 334-339.	3.0	51
123	Effects of arterial transit delay on cerebral blood flow quantification using arterial spin labeling in an elderly cohort. Journal of Magnetic Resonance Imaging, 2017, 45, 472-481.	3.4	51
124	Brain atrophy and white-matter hyperintensities are not significantly associated with incidence and severity of postoperative delirium in older persons without dementia. Neurobiology of Aging, 2015, 36, 2122-2129.	3.1	50
125	Cognitive and brain reserve and the risk of postoperative delirium in older patients: analysis of data from a prospective observational study. Lancet Psychiatry,the, 2014, 1, 437-443.	7.4	48
126	Improving the robustness of pseudoâ€continuous arterial spin labeling to offâ€resonance and pulsatile flow velocity. Magnetic Resonance in Medicine, 2017, 78, 1342-1351.	3.0	46

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127	Relativistic magnetosonic solitons with reflected particles in electronâ€“positron plasmas. Physics of Fluids, 1988, 31, 839.	1.4	45
128	Neural Correlates of Successful and Unsuccessful Verbal Memory Encoding. Brain and Language, 2002, 80, 287-295.	1.6	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. Magnetic Resonance in Medicine, 2006, 55, 514-523.	3.0	44
130	Technical recommendations for clinical translation of renal MRI: a consensus project of the Cooperation in Science and Technology Action PARENCHIMA. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 131-140.	2.0	44
131	Magnetization transfer from inhomogeneously broadened lines (ihMT): Experimental optimization of saturation parameters for human brain imaging at 1.5 Tesla. Magnetic Resonance in Medicine, 2015, 73, 2111-2121.	3.0	43
132	Quantifying fluctuations of resting state networks using arterial spin labeling perfusion MRI. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 463-473.	4.3	43
133	Evaluation of the Sensitivity of Inhomogeneous Magnetization Transfer (ihMT) MRI for Multiple Sclerosis. American Journal of Neuroradiology, 2018, 39, 634-641.	2.4	42
134	White matter hyperintensities and dynamics of postural control. Magnetic Resonance Imaging, 2009, 27, 752-759.	1.8	40
135	Metabolic profile of PML lesions in patients with and without IRIS. Neurology, 2012, 79, 1041-1048.	1.1	40
136	Differentiating maturational and training influences on fMRI activation during music processing. NeuroImage, 2012, 60, 1902-1912.	4.2	40
137	The Role of Angiopoietins as Potential Therapeutic Targets in Renal Cell Carcinoma. Translational Oncology, 2014, 7, 188-195.	3.7	40
138	Modified pulsed continuous arterial spin labeling for labeling of a single artery. Magnetic Resonance in Medicine, 2010, 64, 975-982.	3.0	38
139	Perfusion imaging with a freely diffusible hyperpolarized contrast agent. Magnetic Resonance in Medicine, 2011, 66, 746-755.	3.0	38
140	Preoperative Cognitive Performance Dominates Risk for Delirium Among Older Adults. Journal of Geriatric Psychiatry and Neurology, 2016, 29, 320-327.	2.3	38
141	Imaging melody and rhythm processing in young children. NeuroReport, 2004, 15, 1723-1726.	1.2	37
142	Cerebrospinal fluid matrix metalloproteinase-9 increases during treatment of recurrent malignant gliomas. Cerebrospinal Fluid Research, 2008, 5, 1.	0.5	36
143	Whole brain inhomogeneous magnetization transfer (ihMT) imaging: Sensitivity enhancement within a steadyâ€state gradient echo sequence. Magnetic Resonance in Medicine, 2018, 79, 2607-2619.	3.0	36
144	A quantitative method for correlating observations of decreased apparent diffusion coefficient with elevated cerebral blood perfusion in newborns presenting cerebral ischemic insults. NeuroImage, 2012, 63, 1510-1518.	4.2	35

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145	Arterial spin labeling MR imaging for characterisation of renal masses in patients with impaired renal function: initial experience. European Radiology, 2012, 22, 484-492.	4.5	35
146	Microstructural correlates of 3D steadyâ€state inhomogeneous magnetization transfer (ihMT) in the human brain white matter assessed by myelin water imaging and diffusion tensor imaging. Magnetic Resonance in Medicine, 2018, 80, 2402-2414.	3.0	34
147	A bolometric millimeter-wave system for observations of anisotropy in the cosmic microwave background radiation on medium angular scales. Astrophysical Journal, 1992, 388, 242.	4.5	34
148	Continuous Arterial Spin Labeled Perfusion Magnetic Resonance Imaging in Patients before and after Carotid Endarterectomy. Journal of Neuroimaging, 2004, 14, 133-138.	2.0	33
149	Cox-2 inhibition enhances the activity of sunitinib in human renal cell carcinoma xenografts. British Journal of Cancer, 2013, 108, 319-326.	6.4	33
150	Hyperintense cortical signal on magnetic resonance imaging reflects focal leukocortical encephalitis and seizure risk in progressive multifocal leukoencephalopathy. Annals of Neurology, 2014, 75, 659-669.	5.3	32
151	Impact of multisession 40Hz tACS on hippocampal perfusion in patients with Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2021, 13, 203.	6.2	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. Magnetic Resonance in Medicine, 2017, 78, 1362-1372.	3.0	31
153	Longitudinal diffusion changes following postoperative delirium in older people without dementia. Neurology, 2017, 89, 1020-1027.	1.1	31
154	Development of a Dynamic Multi-Protein Signature of Postoperative Delirium. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 261-268.	3.6	31
155	Association cortex hypoperfusion in mild dementia with Lewy bodies: a potential indicator of cholinergic dysfunction?. Brain Imaging and Behavior, 2011, 5, 25-35.	2.1	30
156	Optimization of inhomogeneous magnetization transfer (ihMT) MRI contrast for preclinical studies using dipolar relaxation time (T_{1D}) filtering. NMR in Biomedicine, 2017, 30, e3706.	2.8	30
157	Volumetric Arterial Spin-labeled Perfusion Imaging of the Kidneys with a Three-dimensional Fast Spin Echo Acquisition. Academic Radiology, 2016, 23, 144-154.	2.5	28
158	Alzheimer's-related cortical atrophy is associated with postoperative delirium severity in persons without dementia. Neurobiology of Aging, 2017, 59, 55-63.	3.1	28
159	Blood flow quantification of the human retina with MRI. NMR in Biomedicine, 2011, 24, 104-111.	2.8	27
160	Effects of Atorvastatin on Cerebral Blood Flow in Middle-Aged Adults at Risk for Alzheimerâ€™s Disease: A Pilot Study. Current Alzheimer Research, 2012, 9, 990-997.	1.4	27
161	Magnetization transfer from inhomogeneously broadened lines (ihMT): Improved imaging strategy for spinal cord applications. Magnetic Resonance in Medicine, 2017, 77, 581-591.	3.0	27
162	Effects of tDCS dose and electrode montage on regional cerebral blood flow and motor behavior. NeuroImage, 2021, 237, 118144.	4.2	27

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163	Velocityâ€selective arterial spin labeling perfusion MRI: A review of the state of the art and recommendations for clinical implementation. Magnetic Resonance in Medicine, 2022, 88, 1528-1547.	3.0	27
164	A search for anisotrophy in the cosmic microwave background on intermediate angular scales. Astrophysical Journal, 1992, 395, 317.	4.5	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. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1386-1397.	4.3	25
167	High dose intermittent sorafenib shows improved efficacy over conventional continuous dose in renal cell carcinoma. Journal of Translational Medicine, 2011, 9, 220.	4.4	24
168	Functional Activation during an Auditory Comprehension Task in Patients with Temporal Lobe Lesions. NeuroImage, 1996, 4, 55-59.	4.2	23
169	Diffusion and Perfusion MRI in Epilepsy. Epilepsia, 2002, 43, 69-77.	5.1	23
170	Selective spectroscopic imaging of hyperpolarized pyruvate and its metabolites using a singleâ€echo variable phase advance method in balanced SSFP. Magnetic Resonance in Medicine, 2016, 76, 1102-1115.	3.0	23
171	Brain MR Imaging at Ultra-low Radiofrequency Power. Radiology, 2011, 259, 550-557.	7.3	21
172	Pseudoâ€continuous arterial spin labeling at very high magnetic field (11.75 T) for highâ€resolution mouse brain perfusion imaging. Magnetic Resonance in Medicine, 2012, 67, 1225-1236.	3.0	21
173	Effects of resting state condition on reliability, trait specificity, and network connectivity of brain function measured with arterial spin labeled perfusion MRI. NeuroImage, 2018, 173, 165-175.	4.2	21
174	Inhibition of ALK1 signaling with dalantercept combined with VEGFR TKI leads to tumor stasis in renal cell carcinoma. Oncotarget, 0, 7, 41857-41869.	1.8	21
175	Limits on activation-induced temperature and metabolic changes in the human primary visual cortex. Magnetic Resonance in Medicine, 2006, 56, 348-355.	3.0	20
176	Minimizing the effects of magnetization transfer asymmetry on inhomogeneous magnetization transfer (ihMT) at ultra-high magnetic field (11.75ÂT). Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 699-709.	2.0	19
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