

John A Detre

List of Publications by Year in descending order

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287
papers

26,269
citations

7551

77
h-index

7718

150
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295
all docs

295
docs citations

295
times ranked

22717
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	Perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 1992, 23, 37-45.	1.9	1,562
3	The neural basis of the central executive system of working memory. <i>Nature</i> , 1995, 378, 279-281.	13.7	1,397
4	The optimal template effect in hippocampus studies of diseased populations. <i>NeuroImage</i> , 2010, 49, 2457-2466.	2.1	605
5	Magnetic resonance imaging of glutamate. <i>Nature Medicine</i> , 2012, 18, 302-306.	15.2	544
6	Magnetic Resonance Perfusion Imaging in Acute Ischemic Stroke Using Continuous Arterial Spin Labeling. <i>Stroke</i> , 2000, 31, 680-687.	1.0	452
7	Perfusion functional MRI reveals cerebral blood flow pattern under psychological stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17804-17809.	3.3	450
8	A theoretical and experimental investigation of the tagging efficiency of pseudocontinuous arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1020-1027.	1.9	429
9	Empirical optimization of ASL data analysis using an ASL data processing toolbox: ASLtbx. <i>Magnetic Resonance Imaging</i> , 2008, 26, 261-269.	1.0	406
10	Limbic Activation to Cigarette Smoking Cues Independent of Nicotine Withdrawal: A Perfusion fMRI Study. <i>Neuropsychopharmacology</i> , 2007, 32, 2301-2309.	2.8	337
11	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
12	Imaging brain fatigue from sustained mental workload: An ASL perfusion study of the time-on-task effect. <i>NeuroImage</i> , 2010, 49, 3426-3435.	2.1	330
13	Prelude to Passion: Limbic Activation by Unseen Drug and Sexual Cues. <i>PLoS ONE</i> , 2008, 3, e1506.	1.1	323
14	Gender difference in neural response to psychological stress. <i>Social Cognitive and Affective Neuroscience</i> , 2007, 2, 227-239.	1.5	316
15	Diffuse optical measurement of blood flow, blood oxygenation, and metabolism in a human brain during sensorimotor cortex activation. <i>Optics Letters</i> , 2004, 29, 1766.	1.7	311
16	Neural correlates of voluntary and involuntary risk taking in the human brain: An fMRI Study of the Balloon Analog Risk Task (BART). <i>NeuroImage</i> , 2008, 42, 902-910.	2.1	304
17	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
18	Machine learning in cardiovascular flows modeling: Predicting arterial blood pressure from non-invasive 4D flow MRI data using physics-informed neural networks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 358, 112623.	3.4	275

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19	Applications of arterial spin labeled MRI in the brain. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 1026-1037.	1.9	272
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	Technical aspects and utility of fMRI using BOLD and ASL. <i>Clinical Neurophysiology</i> , 2002, 113, 621-634.	0.7	255
22	Noninvasive Measurement of Cerebral Blood Flow and Blood Oxygenation Using Near-Infrared and Diffuse Correlation Spectroscopies in Critically Brain-Injured Adults. <i>Neurocritical Care</i> , 2010, 12, 173-180.	1.2	255
23	Effects of the Insulin Sensitizer Metformin in Alzheimer Disease. <i>Alzheimer Disease and Associated Disorders</i> , 2017, 31, 107-113.	0.6	243
24	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
25	Neural Specialization for Letter Recognition. <i>Journal of Cognitive Neuroscience</i> , 2002, 14, 145-159.	1.1	236
26	Distinctions between manipulation and function knowledge of objects: evidence from functional magnetic resonance imaging. <i>Cognitive Brain Research</i> , 2005, 23, 361-373.	3.3	228
27	Neural Substrates of Abstinence-Induced Cigarette Cravings in Chronic Smokers. <i>Journal of Neuroscience</i> , 2007, 27, 14035-14040.	1.7	227
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	Test-retest reliability of arterial spin labeling with common labeling strategies. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 940-949.	1.9	214
30	Functional MRI predicts post-surgical memory following temporal lobectomy. <i>Brain</i> , 2004, 127, 2286-2298.	3.7	213
31	Clinical neuroimaging using arterial spin-labeled perfusion magnetic resonance imaging. <i>Neurotherapeutics</i> , 2007, 4, 346-359.	2.1	209
32	Independent cerebral vasoconstrictive effects of hyperoxia and accompanying arterial hypocapnia at 1 ATA. <i>Journal of Applied Physiology</i> , 2003, 95, 2453-2461.	1.2	208
33	Validation of diffuse correlation spectroscopy for muscle blood flow with concurrent arterial spin labeled perfusion MRI. <i>Optics Express</i> , 2007, 15, 1064.	1.7	198
34	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
35	Arterial spin-labeled perfusion MRI in basic and clinical neuroscience. <i>Current Opinion in Neurology</i> , 2009, 22, 348-355.	1.8	188
36	The Sensory Somatotopic Map of the Human Hand Demonstrated at 4 Tesla. <i>NeuroImage</i> , 1999, 10, 55-62.	2.1	181

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37	Impact of puberty on the evolution of cerebral perfusion during adolescence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8643-8648.	3.3	169
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.	1.9	163
39	Spatiotemporal Quantification of Cerebral Blood Flow during Functional Activation in Rat Somatosensory Cortex using Laser-Speckle Flowmetry. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 518-525.	2.4	163
40	Arterial spin labeling MRI: Clinical applications in the brain. Journal of Magnetic Resonance Imaging, 2015, 41, 1165-1180.	1.9	163
41	Age-Related Changes in Working Memory during Sentence Comprehension: An fMRI Study. NeuroImage, 2002, 15, 302-317.	2.1	160
42	A high-resolution computational atlas of the human hippocampus from postmortem magnetic resonance imaging at 9.4ÅT. NeuroImage, 2009, 44, 385-398.	2.1	160
43	Prefrontal transcranial direct current stimulation alters activation and connectivity in cortical and subcortical reward systems: A tDCSâ€fMRI study. Human Brain Mapping, 2014, 35, 3673-3686.	1.9	157
44	Early parental care is important for hippocampal maturation: Evidence from brain morphology in humans. NeuroImage, 2010, 49, 1144-1150.	2.1	156
45	Glutamate imaging (GluCEST) lateralizes epileptic foci in nonlesional temporal lobe epilepsy. Science Translational Medicine, 2015, 7, 309ra161.	5.8	156
46	Localization of subclinical ictal activity by functional magnetic resonance imaging: Correlation with invasive monitoring. Annals of Neurology, 1995, 38, 618-624.	2.8	155
47	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.	1.8	152
48	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.	0.9	149
49	Transcranial optical monitoring of cerebrovascular hemodynamics in acute stroke patients. Optics Express, 2009, 17, 3884.	1.7	149
50	Direct comparison of fluorodeoxyglucose positron emission tomography and arterial spin labeling magnetic resonance imaging in Alzheimer's disease. Alzheimer's and Dementia, 2012, 8, 51-59.	0.4	149
51	Structural consequences of diffuse traumatic brain injury: A large deformation tensor-based morphometry study. NeuroImage, 2008, 39, 1014-1026.	2.1	142
52	Decreased ventral striatal activity with impulse control disorders in Parkinson's disease. Movement Disorders, 2010, 25, 1660-1669.	2.2	138
53	Characterizing the human hippocampus in aging and Alzheimer's disease using a computational atlas derived from ex vivo MRI and histology. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4252-4257.	3.3	136
54	Genetic Variation in Serotonin Transporter Alters Resting Brain Function in Healthy Individuals. Biological Psychiatry, 2007, 62, 600-606.	0.7	131

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55	Comparison of 2D and 3D single-shot ASL perfusion fMRI sequences. <i>NeuroImage</i> , 2013, 66, 662-671.	2.1	130
56	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
57	Measurement of brain perfusion by volume-localized NMR spectroscopy using inversion of arterial water spins: Accounting for transit time and cross-relaxation. <i>Magnetic Resonance in Medicine</i> , 1992, 25, 362-371.	1.9	128
58	Neural basis for semantic memory difficulty in Alzheimer's disease: an fMRI study. <i>Brain</i> , 2003, 126, 292-311.	3.7	128
59	QSIprep: an integrative platform for preprocessing and reconstructing diffusion MRI data. <i>Nature Methods</i> , 2021, 18, 775-778.	9.0	127
60	Brain Entropy Mapping Using fMRI. <i>PLoS ONE</i> , 2014, 9, e89948.	1.1	124
61	Resting Cerebral Blood Flow Alterations in Chronic Traumatic Brain Injury: An Arterial Spin Labeling Perfusion fMRI Study. <i>Journal of Neurotrauma</i> , 2010, 27, 1399-1411.	1.7	120
62	Temporal dynamics of the partial pressure of brain tissue oxygen during functional forepaw stimulation in rats. <i>Neuroscience Letters</i> , 2001, 306, 106-110.	1.0	118
63	The Neural Basis for Category-Specific Knowledge: An fMRI Study. <i>NeuroImage</i> , 2002, 15, 936-948.	2.1	117
64	Support vector machine learning-based fMRI data group analysis. <i>NeuroImage</i> , 2007, 36, 1139-1151.	2.1	116
65	Arterial spin labeling MRI. <i>Current Opinion in Neurology</i> , 2012, 25, 421-428.	1.8	111
66	Interictal cortical hyperresponsiveness in migraine is directly related to the presence of aura. <i>Cephalalgia</i> , 2013, 33, 365-374.	1.8	109
67	Neural substrates of knowledge of hand postures for object grasping and functional object use: Evidence from fMRI. <i>Brain Research</i> , 2006, 1117, 175-185.	1.1	104
68	Proton Magnetic Resonance Spectroscopy of Pediatric Brain Tumors. <i>Neurosurgery</i> , 1992, 31, 195-202.	0.6	101
69	Neural representation of verb meaning: An fMRI study. <i>Human Brain Mapping</i> , 2002, 15, 124-134.	1.9	99
70	Temporal Dynamics of Brain Tissue Nitric Oxide during Functional Forepaw Stimulation in Rats. <i>NeuroImage</i> , 2003, 18, 1-9.	2.1	97
71	Meta-Analysis of the Antidepressant Effects of Acute Sleep Deprivation. <i>Journal of Clinical Psychiatry</i> , 2017, 78, e1020-e1034.	1.1	95
72	Fast blood flow monitoring in deep tissues with real-time software correlators. <i>Biomedical Optics Express</i> , 2016, 7, 776.	1.5	93

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73	Regional variation in brain lactate in leigh syndrome by localized 1H magnetic resonance spectroscopy. <i>Annals of Neurology</i> , 1991, 29, 218-221.	2.8	92
74	Potentials and Challenges for Arterial Spin Labeling in Pharmacological Magnetic Resonance Imaging. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 337, 359-366.	1.3	91
75	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
76	DAT Genotype Modulates Brain and Behavioral Responses Elicited by Cigarette Cues. <i>Neuropsychopharmacology</i> , 2009, 34, 717-728.	2.8	89
77	Cyclic Nucleotide-Dependent Protein Kinases and Some Major Substrates in the Rat Cerebellum After Neonatal X-Irradiation. <i>Journal of Neurochemistry</i> , 1983, 40, 577-581.	2.1	87
78	Longitudinal Reproducibility and Accuracy of Pseudo-Continuous Arterial Spin-labeled Perfusion MR Imaging in Typically Developing Children. <i>Radiology</i> , 2012, 263, 527-536.	3.6	86
79	Short-range connections in the developmental connectome during typical and atypical brain maturation. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 83, 109-122.	2.9	86
80	The efficiency of adiabatic inversion for perfusion imaging by arterial spin labeling. , 1997, 10, 216-221.		82
81	Elevated Amygdala Perfusion Mediates Developmental Sex Differences in Trait Anxiety. <i>Biological Psychiatry</i> , 2016, 80, 775-785.	0.7	82
82	Arterial spin labeled MRI in prodromal Alzheimer's disease: A multi-site study. <i>NeuroImage: Clinical</i> , 2013, 2, 630-636.	1.4	81
83	Advances in neuroimaging of traumatic brain injury and posttraumatic stress disorder. <i>Journal of Rehabilitation Research and Development</i> , 2009, 46, 717.	1.6	80
84	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
85	Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation. <i>Stroke</i> , 2014, 45, 1269-1274.	1.0	78
86	Continuous ASL perfusion fMRI investigation of higher cognition: Quantification of tonic CBF changes during sustained attention and working memory tasks. <i>NeuroImage</i> , 2006, 31, 376-385.	2.1	77
87	Direct visualization of short transverse relaxation time component (ViSta). <i>NeuroImage</i> , 2013, 83, 485-492.	2.1	75
88	Skeletal Muscle Microvascular Flow in Progressive Peripheral Artery Disease. <i>Journal of the American College of Cardiology</i> , 2009, 53, 2372-2377.	1.2	74
89	Mapping of secondary somatosensory cortex activation induced by vibrational stimulation: an fMRI study. <i>Brain Research</i> , 1999, 824, 291-295.	1.1	72
90	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

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91	Signal averaged laser Doppler measurements of activationâ€“flow coupling in the rat forepaw somatosensory cortex. <i>Brain Research</i> , 1998, 796, 91-98.	1.1	71
92	Serum antibodies that distinguish between the phospho- and dephospho-forms of a phosphoprotein. <i>Nature</i> , 1982, 299, 734-736.	13.7	70
93	Altered Resting Cerebral Blood Flow in Adolescents With in Utero Cocaine Exposure Revealed by Perfusion Functional MRI. <i>Pediatrics</i> , 2007, 120, e1245-e1254.	1.0	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	Altered Hemodynamics and Regional Cerebral Blood Flow in Patients With Hemodynamically Significant Stenoses. <i>Stroke</i> , 2006, 37, 382-387.	1.0	69
96	Systematic Review of Structural and Functional Neuroimaging Findings in Children and Adults with CKD. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2013, 8, 1429-1448.	2.2	69
97	Coupling of Neural Activation to Blood Flow in the Somatosensory Cortex of Rats is Time-Intensity Separable, but Not Linear. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 921-930.	2.4	68
98	Large-scale neural network for sentence processing. <i>Brain and Language</i> , 2006, 96, 14-36.	0.8	66
99	Perfusion fMRI for Functional Neuroimaging. <i>International Review of Neurobiology</i> , 2005, 66, 213-236.	0.9	64
100	Altered salience network connectivity predicts macronutrient intake after sleep deprivation. <i>Scientific Reports</i> , 2015, 5, 8215.	1.6	64
101	Narrative speech production: An fMRI study using continuous arterial spin labeling. <i>NeuroImage</i> , 2008, 40, 932-939.	2.1	63
102	Concurrent CBF and CMRGlc changes during human brain activation by combined fMRIâ€“PET scanning. <i>NeuroImage</i> , 2005, 28, 500-506.	2.1	62
103	Laser Doppler Imaging of Activation-Flow Coupling in the Rat Somatosensory Cortex. <i>NeuroImage</i> , 1999, 10, 716-723.	2.1	61
104	Functional MRI and Its Applications to the Clinical Neurosciences. <i>Neuroscientist</i> , 2001, 7, 64-79.	2.6	61
105	Dynamic Changes in Cerebral Blood Flow, O ₂ Tension, and Calculated Cerebral Metabolic Rate of O ₂ during Functional Activation Using Oxygen Phosphorescence Quenching. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 511-516.	2.4	61
106	Measurement of visual sensitivity in migraine: Validation of two scales and correlation with visual cortex activation. <i>Cephalalgia</i> , 2015, 35, 585-592.	1.8	61
107	The effects of healthy aging on cerebral hemodynamic responses to posture change. <i>Physiological Measurement</i> , 2010, 31, 477-495.	1.2	60
108	State-Independent and Dependent Neural Responses to Psychosocial Stress in Current and Remitted Depression. <i>American Journal of Psychiatry</i> , 2017, 174, 971-979.	4.0	60

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109	Mapping the structural and functional network architecture of the medial temporal lobe using 7T MRI. <i>Human Brain Mapping</i> , 2018, 39, 851-865.	1.9	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	Arterial spin labeling versus 18F-FDG-PET to identify mild cognitive impairment. <i>NeuroImage: Clinical</i> , 2020, 25, 102146.	1.4	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	fMRI: Applications in Epilepsy. <i>Epilepsia</i> , 2004, 45, 26-31.	2.6	58
114	Neural basis for sentence comprehension deficits in frontotemporal dementia. <i>Brain and Language</i> , 2003, 85, 211-221.	0.8	57
115	Clinical applicability of functional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 808-815.	1.9	57
116	Assessment of functional development in normal infant brain using arterial spin labeled perfusion MRI. <i>NeuroImage</i> , 2008, 39, 973-978.	2.1	57
117	In vivo measurement of glutamate loss is associated with synapse loss in a mouse model of tauopathy. <i>NeuroImage</i> , 2014, 101, 185-192.	2.1	57
118	Comparison of non-invasive MRI measurements of cerebral blood flow in a large multisite cohort. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1244-1256.	2.4	57
119	Absence of changes in cortical thickness in patients with migraine. <i>Cephalalgia</i> , 2011, 31, 1452-1458.	1.8	56
120	A VBM study demonstrating "apparent" effects of a single dose of medication on T1-weighted MRIs. <i>Brain Structure and Function</i> , 2013, 218, 97-104.	1.2	56
121	Continuous Optical Monitoring of Cerebral Hemodynamics During Head-of-Bed Manipulation in Brain-Injured Adults. <i>Neurocritical Care</i> , 2014, 20, 443-453.	1.2	56
122	A Perfusion fMRI Study of the Neural Correlates of Sustained-Attention and Working-Memory Deficits in Chronic Traumatic Brain Injury. <i>Neurorehabilitation and Neural Repair</i> , 2012, 26, 870-880.	1.4	55
123	Empirical analyses of null-hypothesis perfusion FMRI data at 1.5 and 4 T. <i>NeuroImage</i> , 2003, 19, 1449-1462.	2.1	54
124	Serotonin transporter genotype modulates amygdala activity during mood regulation. <i>Social Cognitive and Affective Neuroscience</i> , 2010, 5, 1-10.	1.5	54
125	Dopamine transporter genotype modulation of neural responses to smoking cues: confirmation in a new cohort. <i>Addiction Biology</i> , 2011, 16, 308-322.	1.4	54
126	Neural Basis for Verb Processing in Alzheimer's Disease: An fMRI Study.. <i>Neuropsychology</i> , 2003, 17, 658-674.	1.0	53

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127	To smooth or not to smooth? ROC analysis of perfusion fMRI data. <i>Magnetic Resonance Imaging</i> , 2005, 23, 75-81.	1.0	53
128	Using perfusion fMRI to measure continuous changes in neural activity with learning. <i>Brain and Cognition</i> , 2006, 60, 262-271.	0.8	53
129	Activation of human auditory cortex during speech perception: Effects of monaural, binaural, and dichotic presentation. <i>Neuropsychologia</i> , 2008, 46, 301-315.	0.7	52
130	Noninvasive optical monitoring of critical closing pressure and arteriole compliance in human subjects. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2691-2705.	2.4	51
131	³¹ P NMR measurements of myocardial pH in vivo. <i>Biochemical and Biophysical Research Communications</i> , 1988, 151, 70-77.	1.0	50
132	Imaging mesial temporal lobe activation during scene encoding: Comparison of fMRI using BOLD and arterial spin labeling. <i>Human Brain Mapping</i> , 2007, 28, 1391-1400.	1.9	50
133	Influence of probe pressure on the diffuse correlation spectroscopy blood flow signal: extra-cerebral contributions. <i>Biomedical Optics Express</i> , 2013, 4, 978.	1.5	50
134	Evaluation of segmented 3D acquisition schemes for whole-brain high-resolution arterial spin labeling at 3T. <i>NMR in Biomedicine</i> , 2014, 27, 1387-1396.	1.6	50
135	Structural and functional asymmetry of medial temporal subregions in unilateral temporal lobe epilepsy: A 7T MRI study. <i>Human Brain Mapping</i> , 2019, 40, 2390-2398.	1.9	49
136	Heterogeneous increases of regional cerebral blood flow during preterm brain development: Preliminary assessment with pseudo-continuous arterial spin labeled perfusion MRI. <i>NeuroImage</i> , 2017, 147, 233-242.	2.1	47
137	Longitudinal imaging reveals subhippocampal dynamics in glutamate levels associated with histopathologic events in a mouse model of tauopathy and healthy mice. <i>Hippocampus</i> , 2017, 27, 285-302.	0.9	47
138	Functional Magnetic Resonance Imaging and Working Memory in Adolescents with Gestational Cocaine Exposure. <i>Journal of Pediatrics</i> , 2008, 152, 371-377.	0.9	46
139	Appearance and incomplete label matching for diffeomorphic template based hippocampus segmentation. <i>Hippocampus</i> , 2009, 19, 565-571.	0.9	46
140	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
141	Neural Correlates of Successful and Unsuccessful Verbal Memory Encoding. <i>Brain and Language</i> , 2002, 80, 287-295.	0.8	45
142	Remifentanyl-Induced Cerebral Blood Flow Effects in Normal Humans: Dose and ApoE Genotype. <i>Anesthesia and Analgesia</i> , 2007, 105, 167-175.	1.1	45
143	Association of Intensive vs Standard Blood Pressure Control With Magnetic Resonance Imaging Biomarkers of Alzheimer Disease. <i>JAMA Neurology</i> , 2021, 78, 568.	4.5	44
144	Detection of Human Immunodeficiency Virus-Induced Inflammation and Oxidative Stress in Lenticular Nuclei With Magnetic Resonance Spectroscopy Despite Antiretroviral Therapy. <i>Archives of Neurology</i> , 2007, 64, 1249.	4.9	43

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145	Modulation of resting brain cerebral blood flow by the GABA B agonist, baclofen: A longitudinal perfusion fMRI study. <i>Drug and Alcohol Dependence</i> , 2011, 117, 176-183.	1.6	43
146	Mapping the alterations in glutamate with Glu^CCEST MRI</sup> in a mouse model of dopamine deficiency. <i>Journal of Neurochemistry</i> , 2016, 139, 432-439.	2.1	43
147	Electrical Forepaw Stimulation During Reversible Forebrain Ischemia Decreases Infarct Volume. <i>Stroke</i> , 2006, 37, 1327-1331.	1.0	42
148	Physiological Modulations in Arterial Spin Labeling Perfusion Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 703-709.	5.4	42
149	Age-related differences in working memory deficits during nicotine withdrawal. <i>Addiction Biology</i> , 2014, 19, 907-917.	1.4	42
150	Comparison of PASL, PCASL, and background-suppressed 3D PCASL in mild cognitive impairment. <i>Human Brain Mapping</i> , 2017, 38, 5260-5273.	1.9	42
151	Structural Correlation-based Outlier Rejection (SCORE) algorithm for arterial spin labeling time series. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1786-1797.	1.9	42
152	Two nights of recovery sleep restores hippocampal connectivity but not episodic memory after total sleep deprivation. <i>Scientific Reports</i> , 2020, 10, 8774.	1.6	42
153	Estimation of perfusion and arterial transit time in myocardium using free-breathing myocardial arterial spin labeling with navigator-echo. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1289-1295.	1.9	41
154	MRI-based methods for quantification of the cerebral metabolic rate of oxygen. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1165-1185.	2.4	41
155	Functional activation of the left amygdala and hippocampus during associative encoding. <i>NeuroReport</i> , 2000, 11, 2259-2263.	0.6	40
156	¹ H magnetic resonance spectroscopy of ² H-to- ¹ H exchange quantifies the dynamics of cellular metabolism in vivo. <i>Nature Biomedical Engineering</i> , 2020, 4, 335-342.	11.6	40
157	Methylphenidate modulates sustained attention and cortical activation in survivors of traumatic brain injury: a perfusion fMRI study. <i>Psychopharmacology</i> , 2012, 222, 47-57.	1.5	39
158	Specific Changes in Brain Activity during Urgency in Women with Overactive Bladder after Successful Sacral Neuromodulation: A Functional Magnetic Resonance Imaging Study. <i>Journal of Urology</i> , 2018, 200, 382-388.	0.2	38
159	In vivo GluCEST MRI: Reproducibility, background contribution and source of glutamate changes in the MPTP model of Parkinson's disease. <i>Scientific Reports</i> , 2018, 8, 2883.	1.6	38
160	Quantification of cerebral blood flow in adults by contrast-enhanced near-infrared spectroscopy: Validation against MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1672-1684.	2.4	38
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