Matthias J P Van Osch

List of Publications by Year
in descending order

235 papers	11,572 citations	28274 55 h-index	37204 96 g-index
242 all docs	242 docs citations	242 times ranked	12958 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	Blood-Brain Barrier Leakage in Patients with Early Alzheimer Disease. Radiology, 2016, 281, 527-535.	7.3	411
3	Probabilistic segmentation of white matter lesions in MR imaging. NeuroImage, 2004, 21, 1037-1044.	4.2	306
4	Assessment of middle cerebral artery diameter during hypocapnia and hypercapnia in humans using ultra-high-field MRI. Journal of Applied Physiology, 2014, 117, 1084-1089.	2.5	246
5	Fully automatic segmentation of white matter hyperintensities in MR images of the elderly. NeuroImage, 2005, 28, 607-617.	4.2	222
6	Estimation of labeling efficiency in pseudocontinuous arterial spin labeling. Magnetic Resonance in Medicine, 2010, 63, 765-771.	3.0	216
7	Probabilistic segmentation of brain tissue in MR imaging. NeuroImage, 2005, 27, 795-804.	4.2	191
8	Can arterial spin labeling detect white matter perfusion signal?. Magnetic Resonance in Medicine, 2009, 62, 165-173.	3.0	183
9	Cerebral blood flow, blood supply, and cognition in Type 2 Diabetes Mellitus. Scientific Reports, 2016, 6, 10.	3.3	178
10	Measurement of cerebral perfusion with dualâ€echo multiâ€slice quantitative dynamic susceptibility contrast MRI. Journal of Magnetic Resonance Imaging, 1999, 10, 109-117.	3.4	169
11	Measuring the arterial input function with gradient echo sequences. Magnetic Resonance in Medicine, 2003, 49, 1067-1076.	3.0	166
12	In vivo blood <i>T</i>₁ measurements at 1.5 T, 3 T, and 7 T. Magnetic Resonance in Medicine, 2013, 70, 1082-1086.	3.0	150
13	Functional magnetic resonance imaging of human hypothalamic responses to sweet taste and calories. American Journal of Clinical Nutrition, 2005, 82, 1011-1016.	4.7	149
14	Neurovascular unit impairment in early Alzheimer's disease measured with magnetic resonance imaging. Neurobiology of Aging, 2016, 45, 190-196.	3.1	146
15	Cerebrovascular hemodynamics in Alzheimer's disease and vascular dementia: A meta-analysis of transcranial Doppler studies. Ageing Research Reviews, 2012, 11, 271-277.	10.9	143
16	Effect of satiety on brain activation during chocolate tasting in men and women. American Journal of Clinical Nutrition, 2006, 83, 1297-1305.	4.7	141
17	Functional MRI of human hypothalamic responses following glucose ingestion. NeuroImage, 2005, 24, 363-368.	4.2	140
18	Quantifying bloodâ€brain barrier leakage in small vessel disease: Review and consensus recommendations. Alzheimer's and Dementia, 2019, 15, 840-858.	0.8	134

#	ARTICLE	IF	CITATIONS
19	Accuracy and precision of pseudo-continuous arterial spin labeling perfusion during baseline and hypercapnia: A head-to-head comparison with 15O H2O positron emission tomography. NeuroImage, 2014, 92, 182-192.	4.2	133
20	Intra- and Multicenter Reproducibility of Pulsed, Continuous and Pseudo-Continuous Arterial Spin Labeling Methods for Measuring Cerebral Perfusion. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1706-1715.	4.3	127
21	Association of visit-to-visit variability in blood pressure with cognitive function in old age: prospective cohort study. BMJ, The, 2013, 347, f4600-f4600.	6.0	127
22	A central role for venom in predation by <i>Varanus komodoensis</i> (Komodo Dragon) and the extinct giant <i>Varanus</i> (<i>Megalania</i>) <i>priscus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8969-8974.	7.1	120
23	Correcting partial volume artifacts of the arterial input function in quantitative cerebral perfusion MRI. Magnetic Resonance in Medicine, 2001, 45, 477-485.	3.0	112
24	Simultaneous quantitative cerebral perfusion and Gd-DTPA extravasation measurement with dual-echo dynamic susceptibility contrast MRI. Magnetic Resonance in Medicine, 2000, 43, 820-827.	3.0	109
25	Automatic segmentation of different-sized white matter lesions by voxel probability estimation. Medical Image Analysis, 2004, 8, 205-215.	11.6	107
26	Cerebrovascular Reactivity in the Brain White Matter: Magnitude, Temporal Characteristics, and Age Effects. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 242-247.	4.3	105
27	Internal Carotid Artery Occlusion Assessed at Pulsed Arterial Spin-labeling Perfusion MR Imaging at Multiple Delay Times. Radiology, 2004, 233, 899-904.	7.3	100
28	In vivo flow territory mapping of major brain feeding arteries. NeuroImage, 2006, 29, 136-144.	4.2	100
29	Forebrain-dominant deficit in cerebrovascular reactivity in Alzheimer's disease. Neurobiology of Aging, 2012, 33, 75-82.	3.1	98
30	Whole-Brain Arterial Spin Labeling Perfusion MRI in Patients With Acute Stroke. Stroke, 2012, 43, 1290-1294.	2.0	96
31	Middle cerebral artery diameter changes during rhythmic handgrip exercise in humans. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2921-2927.	4.3	84
32	Partial volume effects on arterial input functions: Shape and amplitude distortions and their correction. Journal of Magnetic Resonance Imaging, 2005, 22, 704-709.	3.4	82
33	In vivo visualization of the locus coeruleus in humans: quantifying the testâ€"retest reliability. Brain Structure and Function, 2017, 222, 4203-4217.	2.3	80
34	ExploreASL: An image processing pipeline for multi-center ASL perfusion MRI studies. NeuroImage, 2020, 219, 117031.	4.2	80
35	Advances in arterial spin labelling MRI methods for measuring perfusion and collateral flow. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1461-1480.	4.3	79
36	Origin and reduction of motion and f0 artifacts in high resolution T2*-weighted magnetic resonance imaging: Application in Alzheimer's disease patients. NeuroImage, 2010, 51, 1082-1088.	4.2	76

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37	Relationships between hypercarbic reactivity, cerebral blood flow, and arterial circulation times in patients with moyamoya disease. Journal of Magnetic Resonance Imaging, 2013, 38, 1129-1139.	3.4	76
38	Parkinson's disease-related perfusion and glucose metabolic brain patterns identified with PCASL-MRI and FDG-PET imaging. NeuroImage: Clinical, 2014, 5, 240-244.	2.7	76
39	Subtle bloodâ€brain barrier leakage rate and spatial extent: Considerations for dynamic contrastâ€enhanced <scp>MRI</scp>. Medical Physics, 2017, 44, 4112-4125.	3.0	75
40	Symptomatic Carotid Artery Occlusion: Flow Territories of Major Brain-Feeding Arteries. Radiology, 2007, 242, 526-534.	7.3	72
41	Multi-vendor reliability of arterial spin labeling perfusion MRI using a near-identical sequence: Implications for multi-center studies. NeuroImage, 2015, 113, 143-152.	4.2	72
42	Glucose Ingestion Fails to Inhibit Hypothalamic Neuronal Activity in Patients With Type 2 Diabetes. Diabetes, 2007, 56, 2547-2550.	0.6	71
43	Symptomatic Carotid Artery Stenosis: Impairment of Cerebral Autoregulation Measured at the Brain Tissue Level with Arterial Spin-labeling MR Imaging. Radiology, 2010, 256, 201-208.	7.3	71
44	Functional and Structural Diversification of the Anguimorpha Lizard Venom System. Molecular and Cellular Proteomics, 2010, 9, 2369-2390.	3.8	70
45	Oral glucose intake inhibits hypothalamic neuronal activity more effectively than glucose infusion. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E754-E758.	3.5	68
46	Contrast agent concentration measurements affecting quantification of bolusâ€tracking perfusion MRI. Magnetic Resonance in Medicine, 2007, 58, 544-553.	3.0	67
47	Inter-Vendor Reproducibility of Pseudo-Continuous Arterial Spin Labeling at 3 Tesla. PLoS ONE, 2014, 9, e104108.	2.5	66
48	Superselective pseudocontinuous arterial spin labeling. Magnetic Resonance in Medicine, 2010, 64, 777-786.	3.0	65
49	Harmonizing brain magnetic resonance imaging methods for vascular contributions to neurodegeneration. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 191-204.	2.4	65
50	Probabilistic Brain Tissue Segmentation in Neonatal Magnetic Resonance Imaging. Pediatric Research, 2008, 63, 158-163.	2.3	62
51	The impact of â€œphysiological correctionâ€• on functional connectivity analysis of pharmacological resting state fMRI. NeuroImage, 2013, 65, 499-510.	4.2	62
52	Dissociative Part-Dependent Resting-State Activity in Dissociative Identity Disorder: A Controlled fMRI Perfusion Study. PLoS ONE, 2014, 9, e98795.	2.5	62
53	Elevated brain iron is independent from atrophy in Huntington's Disease. NeuroImage, 2012, 61, 558-564.	4.2	60
54	Timeâ€encoded pseudocontinuous arterial spin labeling: Basic properties and timing strategies for human applications. Magnetic Resonance in Medicine, 2014, 72, 1712-1722.	3.0	60

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55	An Adaptive Intelligence Algorithm for Undersampled Knee MRI Reconstruction. IEEE Access, 2020, 8, 204825-204838.	4.2	59
56	Changes in Cerebral Perfusion after Revascularization of Symptomatic Carotid Artery Stenosis: CT Measurement. Radiology, 2007, 245, 541-548.	7.3	58
57	Arterial spin labeling measurement of cerebral perfusion in children with sickle cell disease. Journal of Magnetic Resonance Imaging, 2012, 35, 779-787.	3.4	58
58	Biomarkers, designs, and interpretations of restingâ€state fMRI in translational pharmacological research: A review of stateâ€ofâ€theâ€Art, challenges, and opportunities for studying brain chemistry. Human Brain Mapping, 2017, 38, 2276-2325.	3.6	57
59	Nonâ€contrast MR imaging of bloodâ€brain barrier permeability to water. Magnetic Resonance in Medicine, 2018, 80, 1507-1520.	3.0	56
60	Optimal Location for Arterial Input Function Measurements near the Middle Cerebral Artery in First-Pass Perfusion MRI. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 840-852.	4.3	55
61	Effects of Nilvadipine on Cerebral Blood Flow in Patients With Alzheimer Disease. Hypertension, 2019, 74, 413-420.	2.7	54
62	Targeting Cerebral Small Vessel Disease With MRI. Stroke, 2017, 48, 3175-3182.	2.0	52
63	Model of the human vasculature for studying the influence of contrast injection speed on cerebral perfusion MRI. Magnetic Resonance in Medicine, 2003, 50, 614-622.	3.0	50
64	Physiologic underpinnings of negative BOLD cerebrovascular reactivity in brain ventricles. NeuroImage, 2013, 83, 505-512.	4.2	49
65	Photon vs. proton radiochemotherapy: Effects on brain tissue volume and perfusion. Radiotherapy and Oncology, 2018, 128, 121-127.	0.6	48
66	Consensus statement on current and emerging methods for the diagnosis and evaluation of cerebrovascular disease. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1391-1417.	4.3	48
67	Altered Flow Territories after Extracranial-Intracranial Bypass Surgery. Neurosurgery, 2005, 57, 486-494.	1.1	47
68	Evidence for involvement of the insula in the psychotropic effects of THC in humans: a double-blind, randomized pharmacological MRI study. International Journal of Neuropsychopharmacology, 2011, 14, 1377-1388.	2.1	47
69	Cerebrovascular reactivity within perfusion territories in patients with an internal carotid artery occlusion. Journal of Neurology, Neurosurgery and Psychiatry, 2011, 82, 1011-1016.	1.9	47
70	Ketamine interactions with biomarkers of stress: A randomized placebo-controlled repeated measures resting-state fMRI and PCASL pilot study in healthy men. NeuroImage, 2015, 108, 396-409.	4.2	46
71	Cerebral blood flow in presymptomatic MAPT and GRN mutation carriers: A longitudinal arterial spin labeling study. NeuroImage: Clinical, 2016, 12, 460-465.	2.7	46
72	Altered flow territories after carotid stenting and carotid endarterectomy. Journal of Vascular Surgery, 2007, 45, 1155-1161.	1.1	45

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73	Differences in apparent diffusion coefficients of brain metabolites between grey and white matter in the human brain measured at 7 T. Magnetic Resonance in Medicine, 2012, 67, 1203-1209.	3.0	45
74	Subject tolerance of 7 T MRI examinations. Journal of Magnetic Resonance Imaging, 2013, 38, 722-725.	3.4	44
75	Neural correlates of planning performance in patients with schizophrenia â€" Relationship with apathy. Schizophrenia Research, 2015, 161, 367-375.	2.0	44
76	The Missing Link in the Pathophysiology of Vascular Cognitive Impairment: Design of the Heart-Brain Study. Cerebrovascular Diseases Extra, 2018, 7, 140-152.	1.5	44
77	Nonlinear Î"R effects in perfusion quantification using bolusâ€tracking MRI. Magnetic Resonance in Medicine, 2009, 61, 486-492.	3.0	43
78	MRI of blood flow of the human retina. Magnetic Resonance in Medicine, 2011, 65, 1768-1775.	3.0	41
79	Safety of Ultra-High Field MRI: What are the Specific Risks?. Current Radiology Reports, 2014, 2, 1.	1.4	41
80	Comparison of arterial spin labeling registration strategies in the multiâ€center GENetic frontotemporal dementia initiative (GENFI). Journal of Magnetic Resonance Imaging, 2018, 47, 131-140.	3.4	41
81	Retrospective image correction in the presence of nonlinear temporal magnetic field changes using multichannel navigator echoes. Magnetic Resonance in Medicine, 2012, 68, 1836-1845.	3.0	40
82	Pseudocontinuous Arterial Spin Labeling Reveals Dissociable Effects of Morphine and Alcohol on Regional Cerebral Blood Flow. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1321-1333.	4.3	39
83	Sources of variation in multi-centre brain MTR histogram studies: body-coil transmission eliminates inter-centre differences. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2006, 19, 209-222.	2.0	38
84	In Vivo T1 of Blood Measurements in Children with Sickle Cell Disease Improve Cerebral Blood Flow Quantification from Arterial Spin-Labeling MRI. American Journal of Neuroradiology, 2016, 37, 1727-1732.	2.4	37
85	White matter cerebral blood flow is inversely correlated with structural and functional connectivity in the human brain. NeuroImage, 2011, 56, 1145-1153.	4.2	35
86	Current imaging modalities for diagnosing cerebral vein thrombosis â€" A critical review. Thrombosis Research, 2020, 189, 132-139.	1.7	35
87	Phaseâ€based arterial input function measurements in the femoral arteries for quantification of dynamic contrastâ€enhanced (DCE) MRI and comparison with DCEâ€CT. Magnetic Resonance in Medicine, 2011, 66, 1267-1274.	3.0	34
88	Superselective pseudo-continuous arterial spin labeling angiography. European Journal of Radiology, 2015, 84, 1758-1767.	2.6	34
89	Markers of endothelial dysfunction and cerebral blood flow in older adults. Neurobiology of Aging, 2014, 35, 373-377.	3.1	32
90	Gray matter contamination in arterial spin labeling white matter perfusion measurements in patients with dementia. NeuroImage: Clinical, 2014, 4, 139-144.	2.7	32

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91	Measuring the labeling efficiency of pseudocontinuous arterial spin labeling. Magnetic Resonance in Medicine, 2017, 77, 1841-1852.	3.0	32
92	Superselective arterial spin labeling applied for flow territory mapping in various cerebrovascular diseases. Journal of Magnetic Resonance Imaging, 2013, 38, 496-503.	3.4	31
93	Non-invasive visualization of collateral blood flow patterns of the circle of Willis by dynamic MR angiography. Medical Image Analysis, 2006, 10, 59-70.	11.6	30
94	Arterial spin labeling at ultraâ€high field: All that glitters is not gold. International Journal of Imaging Systems and Technology, 2010, 20, 62-70.	4.1	30
95	Arterial spin labeling magnetic resonance perfusion imaging in cerebral ischemia. Current Opinion in Neurology, 2014, 27, 42-53.	3.6	29
96	New criterion to aid manual and automatic selection of the arterial input function in dynamic susceptibility contrast MRI. Magnetic Resonance in Medicine, 2011, 65, 448-456.	3.0	28
97	Decreased cerebral perfusion in Duchenne muscular dystrophy patients. Neuromuscular Disorders, 2017, 27, 29-37.	0.6	28
98	Transit time mapping in the mouse brain using timeâ€encoded pCASL. NMR in Biomedicine, 2018, 31, e3855.	2.8	28
99	Bias Introduced by Multiple Head Coils in MRI Research: An 8 Channel and 32 Channel Coil Comparison. Frontiers in Neuroscience, 2019, 13, 729.	2.8	28
100	Effects of background suppression on the sensitivity of dual-echo arterial spin labeling MRI for BOLD and CBF signal changes. NeuroImage, 2014, 103, 316-322.	4.2	27
101	Accelerationâ€selective arterial spin labeling. Magnetic Resonance in Medicine, 2014, 71, 191-199.	3.0	27
102	Detection superiority of 7ÂT MRI protocol in patients with epilepsy and suspected focal cortical dysplasia. Acta Neurologica Belgica, 2016, 116, 259-269.	1.1	27
103	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
104	Correction for heart rate variability during 3D whole heart MR coronary angiography. Journal of Magnetic Resonance Imaging, 2008, 27, 1046-1053.	3.4	26
105	Phaseâ€based arterial input function measurements for dynamic susceptibility contrast MRI. Magnetic Resonance in Medicine, 2010, 64, 358-368.	3.0	26
106	Cerebral perfusion changes in migraineurs: a voxelwise comparison of interictal dynamic susceptibility contrast MRI measurements. Cephalalgia, 2012, 32, 279-288.	3.9	26
107	Cerebral Perfusion Long Term after Therapeutic Occlusion of the Internal Carotid Artery in Patients Who Tolerated Angiographic Balloon Test Occlusion. American Journal of Neuroradiology, 2012, 33, 329-335.	2.4	26
108	Dynamic susceptibility contrast MRI with a prebolus contrast agent administration design for improved absolute quantification of perfusion. Magnetic Resonance in Medicine, 2014, 72, 996-1006.	3.0	26

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109	Time-efficient determination of spin compartments by time-encoded pCASL T2-relaxation-under-spin-tagging and its application in hemodynamic characterization of the cerebral border zones. NeuroImage, 2015, 123, 72-79.	4.2	26
110	Intracranial 3D and 4D MR Angiography Using Arterial Spin Labeling: Technical Considerations. Magnetic Resonance in Medical Sciences, 2020, 19, 294-309.	2.0	26
111	Ultra-long-TE arterial spin labeling reveals rapid and brain-wide blood-to-CSF water transport in humans. NeuroImage, 2021, 245, 118755.	4.2	26
112	Perfusion MRI in neuroâ€psychiatric systemic lupus erthemathosus. Journal of Magnetic Resonance Imaging, 2010, 32, 283-288.	3.4	25
113	Comparison of Velocity- and Acceleration-Selective Arterial Spin Labeling with [¹⁵O]H₂O Positron Emission Tomography. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1296-1303.	4.3	24
114	Feasibility of pseudocontinuous arterial spin labeling at 7ÂT with whole-brain coverage. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 83-93.	2.0	23
115	Intravoxel incoherent motion (IVIM) imaging at different magnetic field strengths: What is feasible?. Magnetic Resonance Imaging, 2014, 32, 1247-1258.	1.8	23
116	Comparison of perfusion signal acquired by arterial spin labelingâ€“prepared intravoxel incoherent motion (IVIM) MRI and conventional IVIM MRI to unravel the origin of the IVIM signal. Magnetic Resonance in Medicine, 2018, 79, 723-729.	3.0	23
117	MEG-guided analysis of 7T-MRI in patients with epilepsy. Seizure: the Journal of the British Epilepsy Association, 2018, 60, 29-38.	2.0	23
118	Systematic evaluation of velocityâ€selective arterial spin labeling settings for placental perfusion measurement. Magnetic Resonance in Medicine, 2020, 84, 1828-1843.	3.0	23
119	Reproducibility of wall shear stress assessment with the paraboloid method in the internal carotid artery with velocity encoded MRI in healthy young individuals. Journal of Magnetic Resonance Imaging, 2007, 26, 598-605.	3.4	22
120	Total cerebral blood flow and mortality in old age. Neurology, 2013, 81, 1922-1929.	1.1	22
121	Spatial heterogeneity of the relation between restingâ€state connectivity and blood flow: An important consideration for pharmacological studies. Human Brain Mapping, 2014, 35, 929-942.	3.6	22
122	Aging modifies the effect of cardiac output on middle cerebral artery blood flow velocity. Physiological Reports, 2017, 5, e13361.	1.7	22
123	Using High-Field Magnetic Resonance Imaging to Estimate Distensibility of the Middle Cerebral Artery. Neurodegenerative Diseases, 2016, 16, 407-410.	1.4	21
124	In vivo visualization of the PICA perfusion territory with super-selective pseudo-continuous arterial spin labeling MRI. NeuroImage, 2013, 83, 58-65.	4.2	20
125	3D time-resolved vessel-selective angiography based on pseudo-continuous arterial spin labeling. Magnetic Resonance Imaging, 2015, 33, 840-846.	1.8	20
126	Acute effects of âˆ†9-tetrahydrocannabinol (THC) on resting state brain function and their modulation by COMT genotype. European Neuropsychopharmacology, 2019, 29, 766-776.	0.7	20

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127	Perfusion and apparent oxygenation in the human placenta (PERFOX). Magnetic Resonance in Medicine, 2020, 83, 549-560.	3.0	20
128	Quantitative Functional Arterial Spin Labeling (fASL) MRI â€“ Sensitivity and Reproducibility of Regional CBF Changes Using Pseudo-Continuous ASL Product Sequences. PLoS ONE, 2015, 10, e0132929.	2.5	20
129	Association between supine cerebral perfusion and symptomatic orthostatic hypotension. NeuroImage, 2005, 27, 789-794.	4.2	19
130	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, spcone.	3.0	19
131	MR Imaging of Individual Perfusion Reorganization Using Superselective Pseudocontinuous Arterial Spin-Labeling in Patients with Complex Extracranial Steno-Occlusive Disease. American Journal of Neuroradiology, 2017, 38, 703-711.	2.4	19
132	Cerebral Hemodynamics and Metabolism in Patients With Symptomatic Occlusion of the Internal Carotid Artery. Stroke, 2003, 34, 648-652.	2.0	18
133	Hypertensive Exposure Markers by MRI in Relation to Cerebral Small Vessel Disease and Cognitive Impairment. JACC: Cardiovascular Imaging, 2021, 14, 176-185.	5.3	18
134	Multiâ€organ comparison of flowâ€based arterial spin labeling techniques: Spatially nonâ€selective labeling for cerebral and renal perfusion imaging. Magnetic Resonance in Medicine, 2021, 85, 2580-2594.	3.0	18
135	Quantitative Cerebral Perfusion MRI and CO2 Reactivity Measurements in Patients with Symptomatic Internal Carotid Artery Occlusion. NeuroImage, 2002, 17, 469-478.	4.2	17
136	Distribution of cerebral blood flow in the caudate nucleus, lentiform nucleus and thalamus in patients with carotid artery stenosis. European Radiology, 2011, 21, 875-881.	4.5	17
137	The cerebrovascular response to lower-body negative pressure vs. head-up tilt. Journal of Applied Physiology, 2017, 122, 877-883.	2.5	17
138	The Cognitive decline in Older Patients with End stage renal disease (COPE) study â€“ rationale and design. Current Medical Research and Opinion, 2017, 33, 2057-2064.	1.9	17
139	The photobiology of the human circadian clock. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118803119.	7.1	17
140	Validation of planningâ€free vesselâ€encoded pseudoâ€continuous arterial spin labeling MR imaging as territorialâ€ASL strategy by comparison to superâ€selective pâ€CASL MRI. Magnetic Resonance in Medicine, 2014, 71, 2059-2070.	3.0	16
141	Impairment of Cerebrovascular Hemodynamics in Patients With Severe and Milder Forms of Sickle Cell Disease. Frontiers in Physiology, 2021, 12, 645205.	2.8	16
142	Effect of vascular crushing on FAIR perfusion kinetics, using a BIR-4 pulse in a magnetization prepared FLASH sequence. Magnetic Resonance in Medicine, 2003, 50, 608-613.	3.0	15
143	Vesselâ€encoded arterial spin labeling (VEâ€ASL) reveals elevated flow territory asymmetry in older adults with substandard verbal memory performance. Journal of Magnetic Resonance Imaging, 2014, 39, 377-386.	3.4	15
144	Measuring motion-induced B₀-fluctuations in the brain using field probes. Magnetic Resonance in Medicine, 2016, 75, 2020-2030.	3.0	15

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145	Unilateral fetal-type circle of Willis anatomy causes rightâ€"left asymmetry in cerebral blood flow with pseudo-continuous arterial spin labeling: A limitation of arterial spin labeling-based cerebral blood flow measurements?. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1570-1578.	4.3	15
146	Design of the ExCersionâ€VCI study: The effect of aerobic exercise on cerebral perfusion in patients with vascular cognitive impairment. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2017, 3, 157-165.	3.7	15
147	Cerebral blood flow and cognitive functioning in patients with disorders along the heartâ€"brain axis. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2020, 6, e12034.	3.7	15
148	Comparison of FAIR perfusion kinetics with DSC-MRI and functional histology in a model of transient ischemia. Magnetic Resonance in Medicine, 2004, 51, 312-320.	3.0	14
149	Performance on Paced Auditory Serial Addition Test and cerebral blood flow in multiple sclerosis. Acta Neurologica Scandinavica, 2013, 128, n/a-n/a.	2.1	13
150	Influence of the cardiac cycle on pCASL: cardiac triggering of the end-of-labeling. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 223-233.	2.0	13
151	High temporal resolution arterial spin labeling MRI with wholeâ€brain coverage by combining timeâ€encoding with Lookâ€Locker and simultaneous multiâ€slice imaging. Magnetic Resonance in Medicine, 2019, 81, 3734-3744.	3.0	13
152	Quantifying the contrast of the human locus coeruleus in vivo at 7 Tesla MRI. PLoS ONE, 2019, 14, e0209842.	2.5	13
153	Cerebral Blood Flow in Patients with Severe Aortic Valve Stenosis Undergoing Transcatheter Aortic Valve Implantation. Journal of the American Geriatrics Society, 2021, 69, 494-499.	2.6	13
154	Cerebellar Superficial Siderosis in Cerebral Amyloid Angiopathy. Stroke, 2022, 53, 552-557.	2.0	13
155	Selective multivessel labeling approach for perfusion territory imaging in pseudoâ€continuous arterial spin labeling. Magnetic Resonance in Medicine, 2012, 68, 214-219.	3.0	12
156	A novel approach to measure local cerebral haematocrit using MRI. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 768-780.	4.3	12
157	7 Tesla MRA for the differentiation between intracranial aneurysms and infundibula. Magnetic Resonance Imaging, 2017, 37, 16-20.	1.8	12
158	Contrast leakage distant from the hematoma in patients with spontaneous ICH: A 7â€‰T MRI study. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1002-1011.	4.3	12
159	Cerebral blood flow and cerebrovascular reactivity are preserved in a mouse model of cerebral microvascular amyloidosis. ELife, 2021, 10, .	6.0	12
160	Cerebral magnetic resonance imaging in quiescent Crohnâ€™s disease patients with fatigue. World Journal of Gastroenterology, 2017, 23, 1018.	3.3	12
161	Acceleration of vesselâ€selective dynamic MR Angiography by pseudocontinuous arterial spin labeling in combination with Acquisition of ConTRol and labEled images in the Same Shot (ACTRESS). Magnetic Resonance in Medicine, 2019, 81, 2995-3006.	3.0	11
162	Are Dynamic Arterial Spin-Labeling MRA and Time-Resolved Contrast-Enhanced MRA Suited for Confirmation of Obliteration following Gamma Knife Radiosurgery of Brain Arteriovenous Malformations?. American Journal of Neuroradiology, 2021, 42, 671-678.	2.4	11

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163	Feasibility of Using Pseudo-Continuous Arterial Spin Labeling Perfusion in a Geriatric Population at 1.5 Tesla. PLoS ONE, 2015, 10, e0144743.	2.5	11
164	Voxel-Wise Perfusion Assessment in Cerebral White Matter with PCASL at 3T; Is It Possible and How Long Does It Take?. PLoS ONE, 2015, 10, e0135596.	2.5	10
165	Quantitative agreement between [¹⁵O]H₂O PET and model free QUASAR MRIâ€derived cerebral blood flow and arterial blood volume. NMR in Biomedicine, 2016, 29, 519-526.	2.8	10
166	Cerebrovascular reactivity in the caudate nucleus, lentiform nucleus and thalamus in patients with carotid artery disease. Journal of Neuroradiology, 2017, 44, 143-150.	1.1	10
167	Insight into the labeling mechanism of acceleration selective arterial spin labeling. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 165-174.	2.0	10
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