Henri J M M Mutsaerts

List of Publications by Year
in descending order

96 papers	2,149 citations	218592 26 h-index	289141 40 g-index
106 all docs	106 docs citations	106 times ranked	3554 citing authors

#	Article	IF	Citations
1	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.	2.1	133
2	No Evidence for Accelerated Aging-Related Brain Pathology in Treated Human Immunodeficiency Virus: Longitudinal Neuroimaging Results From the Comorbidity in Relation to AIDS (COBRA) Project. Clinical Infectious Diseases, 2018, 66, 1899-1909.	2.9	86
3	Variability of physiological brain perfusion in healthy subjects â€" A systematic review of modifiers. Considerations for multi-center ASL studies. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1418-1437.	2.4	84
4	ExploreASL: An image processing pipeline for multi-center ASL perfusion MRI studies. NeuroImage, 2020, 219, 117031.	2.1	80
5	The spatial coefficient of variation in arterial spin labeling cerebral blood flow images. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3184-3192.	2.4	76
6	Multi-vendor reliability of arterial spin labeling perfusion MRI using a near-identical sequence: Implications for multi-center studies. NeuroImage, 2015, 113, 143-152.	2.1	72
7	Cerebral injury in perinatally HIV-infected children compared to matched healthy controls. Neurology, 2016, 86, 19-27.	1.5	68
8	Inter-Vendor Reproducibility of Pseudo-Continuous Arterial Spin Labeling at 3 Tesla. PLoS ONE, 2014, 9, e104108.	1.1	66
9	Cerebral blood flow changes after a day of wake, sleep, and sleep deprivation. NeuroImage, 2019, 186, 497-509.	2.1	64
10	Early-stage differentiation between presenile Alzheimerâ€™s disease and frontotemporal dementia using arterial spin labeling MRI. European Radiology, 2016, 26, 244-253.	2.3	61
11	Cerebral Perfusion Measurements in Elderly with Hypertension Using Arterial Spin Labeling. PLoS ONE, 2015, 10, e0133717.	1.1	60
12	Age-Dependent Effects of Methylphenidate on the Human Dopaminergic System in Young vs Adult Patients With Attention-Deficit/Hyperactivity Disorder. JAMA Psychiatry, 2016, 73, 955.	6.0	56
13	Volume of white matter hyperintensities is an independent predictor of intelligence quotient and processing speed in children with sickle cell disease. British Journal of Haematology, 2015, 168, 553-556.	1.2	55
14	The effects of age on restingâ€state BOLD signal variability is explained by cardiovascular and cerebrovascular factors. Psychophysiology, 2021, 58, e13714.	1.2	51
15	Photon vs. proton radiochemotherapy: Effects on brain tissue volume and perfusion. Radiotherapy and Oncology, 2018, 128, 121-127.	0.3	48
16	Haunted by the past: old emotions remain salient in insomnia disorder. Brain, 2019, 142, 1783-1796.	3.7	46
17	White Matter Hyperintensity Volume and Cerebral Perfusion in Older Individuals with Hypertension Using Arterial Spin-Labeling. American Journal of Neuroradiology, 2016, 37, 1824-1830.	1.2	45
18	Application of the ATN classification scheme in a population without dementia: Findings from the EPAD cohort. Alzheimer's and Dementia, 2021, 17, 1189-1204.	0.4	44

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19	Comparison of arterial spin labeling registration strategies in the multi‑center GENetic frontotemporal dementia initiative (GENFI). Journal of Magnetic Resonance Imaging, 2018, 47, 131-140.	1.9	41
20	Cerebral perfusion changes in presymptomatic genetic frontotemporal dementia: a GENFI study. Brain, 2019, 142, 1108-1120.	3.7	41
21	Hemodynamic provocation with acetazolamide shows impaired cerebrovascular reserve in adults with sickle cell disease. Haematologica, 2019, 104, 690-699.	1.7	40
22	The association between frailty and MRI features of cerebral small vessel disease. Scientific Reports, 2019, 9, 11343.	1.6	38
23	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.	1.2	37
24	Gray matter contamination in arterial spin labeling white matter perfusion measurements in patients with dementia. NeuroImage: Clinical, 2014, 4, 139-144.	1.4	32
25	Early and late effects of radiochemotherapy on cerebral blood flow in glioblastoma patients measured with non-invasive perfusion MRI. Radiotherapy and Oncology, 2016, 118, 24-28.	0.3	32
26	Cerebral oxygen metabolism in adults with sickle cell disease. American Journal of Hematology, 2020, 95, 401-412.	2.0	31
27	Cortical microinfarcts in memory clinic patients are associated with reduced cerebral perfusion. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1869-1878.	2.4	30
28	The Open Brain Consent: Informing research participants and obtaining consent to share brain imaging data. Human Brain Mapping, 2021, 42, 1945-1951.	1.9	27
29	Higher subcortical and white matter cerebral blood flow in perinatally HIV-infected children. Medicine (United States), 2017, 96, e5891.	0.4	26
30	Safety and efficacy of losartan for the reduction of brain atrophy in clinically diagnosed Alzheimer's disease (the RADAR trial): a double-blind, randomised, placebo-controlled, phase 2 trial. Lancet Neurology, The, 2021, 20, 895-906.	4.9	26
31	Risk factor analysis of cerebral white matter hyperintensities in children with sickle cell disease. British Journal of Haematology, 2016, 172, 274-284.	1.2	25
32	Accurate MR Image Registration to Anatomical Reference Space for Diffuse Glioma. Frontiers in Neuroscience, 2020, 14, 585.	1.4	25
33	Comparison of Velocity- and Acceleration-Selective Arterial Spin Labeling with [^{15}O]H$_2$O Positron Emission Tomography. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1296-1303.	2.4	24
34	Cerebral blood flow and cognitive function in HIV-infected men with sustained suppressed viremia on combination antiretroviral therapy. Aids, 2017, 31, 847-856.	1.0	24
35	Diastolic Carotid Artery Wall Shear Stress Is Associated With Cerebral Infarcts and Periventricular White Matter Lesions. Stroke, 2011, 42, 3497-3501.	1.0	22
36	Cerebral Lesions on 7 Tesla MRI in Patients with Sickle Cell Anemia. Cerebrovascular Diseases, 2015, 39, 181-189.	0.8	20

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37	Effects of systematic partial volume errors on the estimation of gray matter cerebral blood flow with arterial spin labeling MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 725-734.	1.1	20
38	Quantitative Functional Arterial Spin Labeling (fASL) MRI – Sensitivity and Reproducibility of Regional CBF Changes Using Pseudo-Continuous ASL Product Sequences. PLoS ONE, 2015, 10, e0132929.	1.1	20
39	Cognitive impairment and associated loss in brain white microstructure in aircrew members exposed to engine oil fumes. Brain Imaging and Behavior, 2016, 10, 437-444.	1.1	19
40	Longitudinal relation between blood pressure, antihypertensive use and cerebral blood flow, using arterial spin labelling MRI. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 1756-1766.	2.4	16
41	Intracranial 4D flow magnetic resonance imaging reveals altered haemodynamics in sickle cell disease. British Journal of Haematology, 2018, 180, 432-442.	1.2	14
42	Investigating the origin and evolution of cerebral small vessel disease: The RUN DMC – InTENse study. European Stroke Journal, 2018, 3, 369-378.	2.7	14
43	Classifying cognitive impairment based on the spatial heterogeneity of cerebral blood flow images. Journal of Magnetic Resonance Imaging, 2019, 50, 858-867.	1.9	14
44	Robust Multi-TE ASL-Based Blood–Brain Barrier Integrity Measurements. Frontiers in Neuroscience, 2021, 15, 719676.	1.4	14
45	The age-dependent effects of a single-dose methylphenidate challenge on cerebral perfusion in patients with attention-deficit/hyperactivity disorder. NeuroImage: Clinical, 2017, 13, 123-129.	1.4	13
46	Added value of arterial spin labeling magnetic resonance imaging in pediatric neuroradiology: pitfalls and applications. Pediatric Radiology, 2019, 49, 245-253.	1.1	13
47	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.	1.3	13
48	ASLPrep: a platform for processing of arterial spin labeled MRI and quantification of regional brain perfusion. Nature Methods, 2022, 19, 683-686.	9.0	13
49	A visual quality control scale for clinical arterial spin labeling images. European Radiology Experimental, 2018, 2, 45.	1.7	12
50	Aortic valve calcification volumes and chronic brain infarctions in patients undergoing transcatheter aortic valve implantation. International Journal of Cardiovascular Imaging, 2019, 35, 2123-2133.	0.7	12
51	Cognitive Improvement After Kidney Transplantation Is Associated With Structural and Functional Changes on MRI. Transplantation Direct, 2020, 6, e531.	0.8	11
52	Quantitative agreement between [15O]H$_2$O PET and model free QUASAR MRI–derived cerebral blood flow and arterial blood volume. NMR in Biomedicine, 2016, 29, 519-526.	1.6	10
53	Late-life brain perfusion after prenatal famine exposure. Neurobiology of Aging, 2019, 82, 1-9.	1.5	10
54	Spatial coefficient of variation of arterial spin labeling MRI as a cerebrovascular correlate of carotid occlusive disease. PLoS ONE, 2020, 15, e0229444.	1.1	10

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55	Effects of Acquisition Parameter Modifications and Field Strength on the Reproducibility of Brain Perfusion Measurements Using Arterial Spin-Labeling. American Journal of Neuroradiology, 2021, 42, 109-115.	1.2	10
56	Preoperative brain MRI features and occurrence of postoperative delirium. Journal of Psychosomatic Research, 2021, 140, 110301.	1.2	10
57	Spatial variation of perfusion MRI reflects cognitive decline in mild cognitive impairment and early dementia. Scientific Reports, 2021, 11, 23325.	1.6	10
58	Reproducibility of pharmacological ASL using sequences from different vendors: implications for multicenter drug studies. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 427-436.	1.1	9
59	The Open-Access European Prevention of Alzheimer's Dementia (EPAD) MRI dataset and processing workflow. NeuroImage: Clinical, 2022, 35, 103106.	1.4	9
60	The Effects of Intracranial Stenosis on Cerebral Perfusion and Cognitive Performance. Journal of Alzheimer's Disease, 2021, 79, 1369-1380.	1.2	8
61	Epileptogenic zone detection in MRI negative epilepsy using adaptive thresholding of arterial spin labeling data. Scientific Reports, 2021, 11, 10904.	1.6	8
62	A Beginner's Guide to Arterial Spin Labeling (ASL) Image Processing. Frontiers in Radiology, 0, 2, .	1.2	8
63	Improved viscosity modeling in patients with type 2 diabetes mellitus by accounting for enhanced red blood cell aggregation tendency. Clinical Hemorheology and Microcirculation, 2010, 44, 303-313.	0.9	7
64	Cerebrovascular Reactivity during Prolonged Breath-Hold in Experienced Freedivers. American Journal of Neuroradiology, 2018, 39, 1839-1847.	1.2	7
65	A systematic review on the use of quantitative imaging to detect cancer therapy adverse effects in normal-appearing brain tissue. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 163-186.	1.1	7
66	Impact of Structural Cerebral Damage in Adults With Tetralogy of Fallot. Circulation, 2017, 135, 1873-1875.	1.6	6
67	Dose-dependent effects of the selective serotonin reuptake inhibitor citalopram: A combined SPECT and phMRI study. Journal of Psychopharmacology, 2019, 33, 660-669.	2.0	6
68	Cerebral Blood Flow of the Frontal Lobe in Untreated Children with Trigonocephaly versus Healthy Controls: An Arterial Spin Labeling Study. Plastic and Reconstructive Surgery, 2022, 149, 931-937.	0.7	6
69	Guideline treatment results in regression of atherosclerosis in type 2 diabetes mellitus. Diabetes and Vascular Disease Research, 2015, 12, 126-132.	0.9	4
70	P1â€401: INVESTIGATING ARTERIAL SPIN LABELING AS A LARGE VESSEL CORRELATE OF SVD, AD, AND PD. Alzheimer's and Dementia, 2018, 14, P456.	0.4	3
71	Cerebral blood flow and predictors of white matter lesions in adults with Tetralogy of Fallot. , 2018, 2018, 1309-1312.		3
72	Losartan to slow the progression of mild-to-moderate Alzheimer's disease through angiotensin targeting: the RADAR RCT. Efficacy and Mechanism Evaluation, 2021, 8, 1-72.	0.9	3

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73	Reproducibility of ‹scp›3ÂT APTâ€CEST‹/scp› in Healthy Volunteers and Patients With Brain Glioma. Journal of Magnetic Resonance Imaging, 2023, 57, 206-215.	1.9	3
74	Using Perfusion Contrast for Spatial Normalization of ASL MRI Images in a Pediatric Craniosynostosis Population. Frontiers in Neuroscience, 2021, 15, 698007.	1.4	2
75	Volume of White Matter Hyperintensities Predicts Neurocognitive Functioning in Children with Sickle Cell Disease. Blood, 2014, 124, 2720-2720.	0.6	2
76	Cerebral Small Vessel Disease In Patients With Sickle Cell Disease: Initial Findings With Ultra-High Field 7T MRI. Blood, 2013, 122, 1011-1011.	0.6	2
77	Association of Arterial Spin Labeling Parameters With Cognitive Decline, Vascular Events, and Mortality in a Memory-Clinic Sample. American Journal of Geriatric Psychiatry, 2022, 30, 1298-1309.	0.6	2
78	Reduced Cerebrovascular Reserve Capacity in Adults with Sickle Cell Disease. Blood, 2017, 130, 972-972.	0.6	1
79	A Longitudinal Analysis of Cerebral Blood Flow in Perinatally HIV Infected Adolescents as Compared to Matched Healthy Controls. Viruses, 2021, 13, 2179.	1.5	1
80	Assessment of Functional Shunting in Patients with Sickle Cell Disease. Blood, 2021, 138, 121-121.	0.6	1
81	P1â€025: Cerebral Perfusion as an Imaging Biomarker of Presymptomatic Genetic Frontotemporal Dementia: Preliminary Results from the Genetic Frontotemporal Dementia Initiative (GENFI). Alzheimer's and Dementia, 2016, 12, P409.	0.4	0
82	[O2â€"01â€"06]: FRONTOâ€SUBCORTICAL HYPOPERFUSION IN PRESYMPTOMATIC FTD IS ASSOCIATED WITH BEHAVIORAL MEASURES, BUT NOT COGNITIVE DEFICITS: THE GENFI STUDY. Alzheimer's and Dementia, 2017, 13, P551.	0.4	0
83	532. Multimodal MRI Analysis of Medial Prefrontal Cortex and Cognitive Control in Adolescent Bipolar Disorder. Biological Psychiatry, 2017, 81, S215-S216.	0.7	0
84	[P1â€"397]: A PROSPECTIVE OBSERVATIONAL STUDY INVESTIGATING CLINICAL RESPONSE TO CHOLINESTERASE INHIBITORS AND ASSOCIATION WITH CEREBRAL PERFUSION. Alzheimer's and Dementia, 2017, 13, P422.	0.4	0
85	P3â€422: PROTOCOL HARMONISATION AND INâ€VIVO COMPARISON OF ARTERIAL SPIN LABELLING PERFUSION MRI FOR MULTICENTER CLINICAL TRIALS. Alzheimer's and Dementia, 2018, 14, P1269.	0.4	0
86	Operationalization of the ATN classification scheme in preclinical AD: Findings from EPAD V500.0 data release. Alzheimer's and Dementia, 2020, 16, e037912.	0.4	0
87	ExploreQC: A toolbox for MRI quality control in the EPAD multicentre study. Alzheimer's and Dementia, 2020, 16, e041952.	0.4	0
88	Amyloidâ€dependent association of grey matter network disruptions with phosphoâ€tau in preclinical Alzheimerâ€™s disease. Alzheimer's and Dementia, 2020, 16, e044739.	0.4	0
89	Decreased integrity of the monoaminergic tract is associated with a positive response to MPH in patients with vascular cognitive impairment - proof of principle study STREAM-VCI. Cerebral Circulation - Cognition and Behavior, 2022, 3, 100128.	0.4	0
90	Tau and synaptic biomarkers but not amyloidâ€Î² are associated with cerebral perfusion in the Alzheimerâ€™s disease spectrum. Alzheimer's and Dementia, 2021, 17, .	0.4	0

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91	Determinants of arterial spin labeling parameters and its association with cerebral small vessel disease and diagnostic groups. Alzheimer's and Dementia, 2021, 17, .	0.4	0
92	Automatic brain extraction using deep learning. Alzheimer's and Dementia, 2021, 17, .	0.4	0
93	Neuroimaging–derived phenotypes in the European Prevention of Alzheimer Dementia (EPAD) Cohort Study. Alzheimer's and Dementia, 2021, 17, .	0.4	0
94	The effects of intracranial stenosis on cerebral perfusion and cognitive performance. Alzheimer's and Dementia, 2021, 17, .	0.4	0
95	Differential gray matter connectivity correlates of CSF biomarkers: Results from the EPAD Cohort. Alzheimer's and Dementia, 2021, 17, .	0.4	0
96	Elevated regional cerebral blood flow in adults with 22q11.2 deletion syndrome. World Journal of Biological Psychiatry, 2023, 24, 260-265.	1.3	0