

Matthias Gärtner

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

6,526
citations

201674

27
h-index

138484

58
g-index

63
all docs

63
docs citations

63
times ranked

8513
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.	3.0	1,663
2	Multiplexed Echo Planar Imaging for Sub-Second Whole Brain fMRI and Fast Diffusion Imaging. <i>PLoS ONE</i> , 2010, 5, e15710.	2.5	1,164
3	MRI-Guided Thrombolysis for Stroke with Unknown Time of Onset. <i>New England Journal of Medicine</i> , 2018, 379, 611-622.	27.0	912
4	Quantification of Blood Flow in Brain Tumors: Comparison of Arterial Spin Labeling and Dynamic Susceptibility-weighted Contrast-enhanced MR Imaging. <i>Radiology</i> , 2003, 228, 523-532.	7.3	347
5	Single-shot 3D imaging techniques improve arterial spin labeling perfusion measurements. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 491-498.	3.0	267
6	Arterial spin labeling in combination with a look-locker sampling strategy: Inflow turbo-sampling EPI-fAIR (ITS-fAIR). <i>Magnetic Resonance in Medicine</i> , 2001, 46, 974-984.	3.0	209
7	Multi-delay multi-parametric arterial spin-labeled perfusion MRI in acute ischemic stroke – Comparison with dynamic susceptibility contrast enhanced perfusion imaging. <i>NeuroImage: Clinical</i> , 2013, 3, 1-7.	2.7	180
8	The Value of Arterial Spin-Labeled Perfusion Imaging in Acute Ischemic Stroke. <i>Stroke</i> , 2012, 43, 1018-1024.	2.0	151
9	Whole-Body MR Imaging in the German National Cohort: Rationale, Design, and Technical Background. <i>Radiology</i> , 2015, 277, 206-220.	7.3	137
10	High-intensity focused ultrasound: Principles, therapy guidance, simulations and applications. <i>Zeitschrift Fur Medizinische Physik</i> , 2012, 22, 311-322.	1.5	113
11	Separation of macrovascular signal in multi-inversion time arterial spin labelling MRI. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1357-1365.	3.0	101
12	Assessment of Irradiated Brain Metastases by Means of Arterial Spin-Labeling and Dynamic Susceptibility-Weighted Contrast-Enhanced Perfusion MRI. <i>Investigative Radiology</i> , 2004, 39, 277-287.	6.2	96
13	Cerebral Blood Flow, Blood Volume, and Oxygen Metabolism Dynamics in Human Visual and Motor Cortex as Measured by Whole-Brain Multi-Modal Magnetic Resonance Imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1856-1866.	4.3	84
14	ExploreASL: An image processing pipeline for multi-center ASL perfusion MRI studies. <i>NeuroImage</i> , 2020, 219, 117031.	4.2	80
15	Comparison of Arterial Spin-Labeling Techniques and Dynamic Susceptibility-Weighted Contrast-Enhanced MRI in Perfusion Imaging of Normal Brain Tissue. <i>Investigative Radiology</i> , 2003, 38, 712-718.	6.2	75
16	Multi-vendor reliability of arterial spin labeling perfusion MRI using a near-identical sequence: Implications for multi-center studies. <i>NeuroImage</i> , 2015, 113, 143-152.	4.2	72
17	Effects of Nilvadipine on Cerebral Blood Flow in Patients With Alzheimer Disease. <i>Hypertension</i> , 2019, 74, 413-420.	2.7	54
18	Efficient visualization of vascular territories in the human brain by cycled arterial spin labeling MRI. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 671-675.	3.0	52

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19	T2*-based arterial spin labeling measurements of blood to tissue water transfer in human brain. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 332-342.	3.4	49
20	Using simultaneous PET/MRI to compare the accuracy of diagnosing frontotemporal dementia by arterial spin labelling MRI and FDG-PET. <i>NeuroImage: Clinical</i> , 2018, 17, 405-414.	2.7	44
21	Vessel-encoded dynamic magnetic resonance angiography using arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 698-706.	3.0	43
22	3D GRASE Pulsed Arterial Spin Labeling at Multiple Inflow Times in Patients with Long Arterial Transit Times: Comparison with Dynamic Susceptibility-Weighted Contrast-Enhanced MRI at 3 Tesla. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 392-401.	4.3	43
23	Assessment of Intracranial Collateral Flow by Using Dynamic Arterial Spin Labeling MRA and Transcranial Color-Coded Duplex Ultrasound. <i>Stroke</i> , 2008, 39, 1894-1897.	2.0	42
24	Dynamics of brain perfusion and cognitive performance in revascularization of carotid artery stenosis. <i>NeuroImage: Clinical</i> , 2019, 22, 101779.	2.7	36
25	Clinical Evaluation of an Arterial-Spin-Labeling Product Sequence in Steno-Occlusive Disease of the Brain. <i>PLoS ONE</i> , 2014, 9, e87143.	2.5	35
26	Partial volume correction in arterial spin labeling perfusion MRI: A method to disentangle anatomy from physiology or an analysis step too far?. <i>NeuroImage</i> , 2021, 238, 118236.	4.2	33
27	3D GRASE arterial spin labelling reveals an inverse correlation of cortical perfusion with the white matter lesion volume in MS. <i>Multiple Sclerosis Journal</i> , 2012, 18, 1570-1576.	3.0	29
28	Arterial Spin Labeling Cerebral Perfusion Magnetic Resonance Imaging in Migraine Aura: An Observational Study. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 1262-1266.	1.6	28
29	Feasibility of simultaneous whole-brain imaging on an integrated PET-MRI system using an enhanced 2-point Dixon attenuation correction method. <i>Frontiers in Neuroscience</i> , 2015, 8, 434.	2.8	27
30	Improving magnetic resonance imaging with smart and thin metasurfaces. <i>Scientific Reports</i> , 2021, 11, 16179.	3.3	27
31	3D GRASE PROPELLER: Improved image acquisition technique for arterial spin labeling perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 168-173.	3.0	26
32	Intracranial Hemodynamics Is Altered by Carotid Artery Disease and After Endarterectomy. <i>Stroke</i> , 2011, 42, 979-984.	2.0	21
33	Prediction of Early Reperfusion From Repeated Arterial Spin Labeling Perfusion Magnetic Resonance Imaging During Intravenous Thrombolysis. <i>Stroke</i> , 2016, 47, 247-250.	2.0	20
34	Vessel-encoded dynamic magnetic resonance angiography using arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 430-438.	3.0	18
35	Quantitative, Organ-Specific Interscanner and Intrascanner Variability for 3 T Whole-Body Magnetic Resonance Imaging in a Multicenter, Multivendor Study. <i>Investigative Radiology</i> , 2016, 51, 255-265.	6.2	17
36	Prospective motion correction in functional MRI using simultaneous multislice imaging and multislice-to-volume image registration. <i>NeuroImage</i> , 2019, 200, 159-173.	4.2	16

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37	Assessment of Perfusion Deficits in Ischemic Stroke Using 3D GRASE Arterial Spin Labeling Magnetic Resonance Imaging with Multiple Inflow Times. <i>Journal of Neuroimaging</i> , 2014, 24, 453-459.	2.0	15
38	Correction for Susceptibility Distortions Increases the Performance of Arterial Spin Labeling in Patients with Cerebrovascular Disease. <i>Journal of Neuroimaging</i> , 2016, 26, 436-444.	2.0	15
39	Portable and platform-independent MR pulse sequence programs. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1277-1290.	3.0	15
40	Robust Multi-TE ASL-Based Blood-Brain Barrier Integrity Measurements. <i>Frontiers in Neuroscience</i> , 2021, 15, 719676.	2.8	14
41	Perfusion Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 269-279.	3.4	12
42	Improving perfusion quantification in arterial spin labeling for delayed arrival times by using optimized acquisition schemes. <i>Zeitschrift Fur Medizinische Physik</i> , 2015, 25, 221-229.	1.5	11
43	Mapping Long-Term Functional Changes in Cerebral Blood Flow by Arterial Spin Labeling. <i>PLoS ONE</i> , 2016, 11, e0164112.	2.5	11
44	Ultrahigh-field MPRAGE Magnetic Resonance Angiography at 7.0T in patients with cerebrovascular disease. <i>European Journal of Radiology</i> , 2015, 84, 2613-2617.	2.6	10
45	Sensitivity of Arterial Spin Labeling for Characterization of Longitudinal Perfusion Changes in Frontotemporal Dementia and Related Disorders. <i>NeuroImage: Clinical</i> , 2022, 35, 102853.	2.7	9
46	Sodium magnetic resonance imaging using ultra-short echo time sequences with anisotropic resolution and uniform k-space sampling. <i>Magnetic Resonance Imaging</i> , 2015, 33, 319-327.	1.8	7
47	Magnetisation transfer effects of Q2TIPS pulses in ASL. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 113-126.	2.0	6
48	Measurement of vascular water transport in human subjects using time-resolved pulsed arterial spin labelling. <i>NMR in Biomedicine</i> , 2015, 28, 1059-1068.	2.8	6
49	Simultaneous multislice acquisition with multi-contrast segmented EPI for separation of signal contributions in dynamic contrast-enhanced imaging. <i>PLoS ONE</i> , 2018, 13, e0202673.	2.5	6
50	Concordance of regional hypoperfusion by pCASL MRI and 15O-water PET in frontotemporal dementia: Is pCASL an efficacious alternative?. <i>NeuroImage: Clinical</i> , 2022, 33, 102950.	2.7	6
51	Microvascular Impairment in Patients With Cerebral Small Vessel Disease Assessed With Arterial Spin Labeling Magnetic Resonance Imaging: A Pilot Study. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, .	3.4	5
52	Reproducibility and repeatability of magnetic resonance imaging in dementia. <i>Physica Medica</i> , 2022, 101, 8-17.	0.7	4
53	Reliability and Reproducibility of Hadamard Encoded Pseudo-Continuous Arterial Spin Labeling in Healthy Elderly. <i>Frontiers in Neuroscience</i> , 2021, 15, 711898.	2.8	3
54	Combined acquisition of diffusion and T2*-weighted measurements using simultaneous multi-contrast magnetic resonance imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, , 1.	2.0	2

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55	Joint estimation and correction of motion and geometric distortion in segmented arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1876-1885.	3.0	1
56	Towards free breathing <sc>3D ASL</sc> imaging of the human liver using prospective motion correction. <i>Magnetic Resonance in Medicine</i> , 2022, , .	3.0	1
57	A software tool for advanced MRgFUS prostate therapy planning and follow up. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
58	Design and Characterization of a Metasurface Enhancement Plate for 3T MRI. , 2020, , .		0
59	A metamaterial-based cable mantle for shield current suppression in MRI systems. , 2020, , .		0
60	Non-contrast agent perfusion MRI methods. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, , 177-193.	0.1	0