

# Jeroen Siero

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,862  
citations

304743

22  
h-index

302126

39  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2637  
citing authors

#	ARTICLE	IF	CITATIONS
1	A silent gradient axis for soundless spatial encoding to enable fast and quiet brain imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1062-1073.	3.0	8
2	Hemodynamic and metabolic changes during hypercapnia with normoxia and hyperoxia using pCASL and TRUST MRI in healthy adults. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 861-875.	4.3	8
3	Comparing BOLD and VASO-CBV population receptive field estimates in human visual cortex. <i>NeuroImage</i> , 2022, 248, 118868.	4.2	8
4	Accelerating Brain Imaging Using a Silent Spatial Encoding Axis. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1785-1793.	3.0	5
5	Comparing hand movement rate dependence of cerebral blood volume and BOLD responses at 7T. <i>NeuroImage</i> , 2021, 226, 117623.	4.2	8
6	Automated Assessment of Cerebral Arterial Perforator Function on 7T MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 234-241.	3.4	13
7	Zooming in on cerebral small vessel function in small vessel diseases with 7T MRI: Rationale and design of the "ZOOM@SVDs" study. <i>Cerebral Circulation - Cognition and Behavior</i> , 2021, 2, 100013.	0.9	8
8	Contralateral improvement of cerebrovascular reactivity and TIA frequency after unilateral revascularization surgery in moyamoya vasculopathy. <i>NeuroImage: Clinical</i> , 2021, 30, 102684.	2.7	11
9	A plug-and-play, lightweight, single-axis gradient insert design for increasing spatiotemporal resolution in echo planar imaging-based brain imaging. <i>NMR in Biomedicine</i> , 2021, 34, e4499.	2.8	8
10	Velocity and Pulsatility Measures in the Perforating Arteries of the Basal Ganglia at 3T MRI in Reference to 7T MRI. <i>Frontiers in Neuroscience</i> , 2021, 15, 665480.	2.8	10
11	Double delay alternating with nutation for tailored excitation facilitates banding-free isotropic high-resolution intracranial vessel wall imaging. <i>NMR in Biomedicine</i> , 2021, 34, e4567.	2.8	3
12	A line through the brain: implementation of human line-scanning at 7T for ultra-high spatiotemporal resolution fMRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2831-2843.	4.3	18
13	Can 7T MPRAGE match MP2RAGE for gray-white matter contrast?. <i>NeuroImage</i> , 2021, 240, 118384.	4.2	15
14	Shape and volume changes of the superior lateral ventricle after electroconvulsive therapy measured with ultra-high field MRI. <i>Psychiatry Research - Neuroimaging</i> , 2021, 317, 111384.	1.8	1
15	No Signs of Edema or Angiogenesis in the Hippocampus After Electroconvulsive Therapy. <i>Biological Psychiatry</i> , 2020, 87, S426.	1.3	0
16	Vasogenic edema versus neuroplasticity as neural correlates of hippocampal volume increase following electroconvulsive therapy. <i>Brain Stimulation</i> , 2020, 13, 1080-1086.	1.6	25
17	Arterial CO2 pressure changes during hypercapnia are associated with changes in brain parenchymal volume. <i>European Radiology Experimental</i> , 2020, 4, 17.	3.4	8
18	Phase contrast MRI measurements of net cerebrospinal fluid flow through the cerebral aqueduct are confounded by respiration. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 433-444.	3.4	48

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19	On the sensitivity of the diffusion MRI signal to brain activity in response to a motor cortex paradigm. <i>Human Brain Mapping</i> , 2019, 40, 5069-5082.	3.6	10
20	Laminar fMRI: What can the time domain tell us?. <i>NeuroImage</i> , 2019, 197, 761-771.	4.2	33
21	Vascular reactivity in small cerebral perforating arteries with 7T phase contrast MRI – A proof of concept study. <i>NeuroImage</i> , 2018, 172, 470-477.	4.2	13
22	Comparison of 3T Intracranial Vessel Wall MRI Sequences. <i>American Journal of Neuroradiology</i> , 2018, 39, 1112-1120.	2.4	12
23	Variable impact of CSF flow suppression on quantitative 3.0T intracranial vessel wall measurements. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1120-1128.	3.4	16
24	Ultra-high field MRI: Advancing systems neuroscience towards mesoscopic human brain function. <i>NeuroImage</i> , 2018, 168, 345-357.	4.2	151
25	Establishing upper limits on neuronal activity-evoked pH changes with APT-CEST MRI at 7 T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 126-136.	3.0	7
26	Cerebrovascular Reactivity during Prolonged Breath-Hold in Experienced Freedivers. <i>American Journal of Neuroradiology</i> , 2018, 39, 1839-1847.	2.4	7
27	Fast CSF MRI for brain segmentation; Cross-validation by comparison with 3D T1-based brain segmentation methods. <i>PLoS ONE</i> , 2018, 13, e0196119.	2.5	8
28	Detailed view on slow sinusoidal, hemodynamic oscillations on the human brain cortex by Fourier transforming oxy/deoxy hyperspectral images. <i>Human Brain Mapping</i> , 2018, 39, 3558-3573.	3.6	18
29	Effect sizes of BOLD CVR, resting-state signal fluctuations and time delay measures for the assessment of hemodynamic impairment in carotid occlusion patients. <i>NeuroImage</i> , 2018, 179, 530-539.	4.2	20
30	High-resolution intracranial vessel wall MRI in an elderly asymptomatic population: comparison of 3T and 7T. <i>European Radiology</i> , 2017, 27, 1585-1595.	4.5	59
31	Quantitative T1 mapping under precisely controlled graded hyperoxia at 7T. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1461-1469.	4.3	13
32	On the transmit field inhomogeneity correction of relaxation-compensated amide and NOE CEST effects at 7T. <i>NMR in Biomedicine</i> , 2017, 30, e3687.	2.8	34
33	Quantitative Intracranial Atherosclerotic Plaque Characterization at 7T MRI: An Ex Vivo Study with Histologic Validation. <i>American Journal of Neuroradiology</i> , 2016, 37, 802-810.	2.4	34
34	Is there any difference in Amide and NOE CEST effects between white and gray matter at 7 T?. <i>Journal of Magnetic Resonance</i> , 2016, 272, 82-86.	2.1	9
35	Magnetic Resonance Imaging of Plaque Morphology, Burden, and Distribution in Patients With Symptomatic Middle Cerebral Artery Stenosis. <i>Stroke</i> , 2016, 47, 1797-1802.	2.0	69
36	The BOLD cerebrovascular reactivity response to progressive hypercapnia in young and elderly. <i>NeuroImage</i> , 2016, 139, 94-102.	4.2	39

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37	Qualitative Evaluation of a High-Resolution 3D Multi-Sequence Intracranial Vessel Wall Protocol at 3 Tesla MRI. PLoS ONE, 2016, 11, e0160781.	2.5	12
38	<i>In vivo</i> quantification of hyperoxic arterial blood water $T_1$ . NMR in Biomedicine, 2015, 28, 1518-1525.	2.8	14
39	Cortical depth dependence of the BOLD initial dip and poststimulus undershoot in human visual cortex at 7 Tesla. Magnetic Resonance in Medicine, 2015, 73, 2283-2295.	3.0	52
40	Neuronal activation induced BOLD and CBF responses upon acetazolamide administration in patients with steno-occlusive artery disease. NeuroImage, 2015, 105, 276-285.	4.2	26
41	Examining the regional and cerebral depth-dependent BOLD cerebrovascular reactivity response at 7 T. NeuroImage, 2015, 114, 239-248.	4.2	64
42	The Cumulative Influence of Hyperoxia and Hypercapnia on Blood Oxygenation and $R_2^*$ . Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 2032-2042.	4.3	14
43	Bolus Arrival Time and Cerebral Blood Flow Responses to Hypercarbia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1243-1252.	4.3	54
44	BOLD matches neuronal activity at the mm scale: A combined 7T fMRI and ECoG study in human sensorimotor cortex. NeuroImage, 2014, 101, 177-184.	4.2	97
45	Investigating the non-linearity of the BOLD cerebrovascular reactivity response to targeted hypo/hypercapnia at 7T. NeuroImage, 2014, 98, 296-305.	4.2	67
46	Pushing the limits of high-resolution functional MRI using a simple high-density multi-element coil design. NMR in Biomedicine, 2013, 26, 65-73.	2.8	62
47	Blood Oxygenation Level-dependent/Functional Magnetic Resonance Imaging. PET Clinics, 2013, 8, 329-344.	3.0	7
48	BOLD Consistently Matches Electrophysiology in Human Sensorimotor Cortex at Increasing Movement Rates: A Combined 7T fMRI and ECoG Study on Neurovascular Coupling. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1448-1456.	4.3	54
49	Image-based method to measure and characterize shim-induced eddy current fields. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2013, 42, 245-260.	0.5	9
50	BOLD Specificity and Dynamics Evaluated in Humans at 7 T: Comparing Gradient-Echo and Spin-Echo Hemodynamic Responses. PLoS ONE, 2013, 8, e54560.	2.5	49
51	Dissociation between Neuronal Activity in Sensorimotor Cortex and Hand Movement Revealed as a Function of Movement Rate. Journal of Neuroscience, 2012, 32, 9736-9744.	3.6	39
52	Tract-based magnetic resonance spectroscopy of the cingulum bundles at 7 T. Human Brain Mapping, 2012, 33, 1503-1511.	3.6	10
53	Probabilistic tractography recovers a rostrocaudal trajectory of connectivity variability in the human insular cortex. Human Brain Mapping, 2012, 33, 2005-2034.	3.6	255
54	Spontaneous blood oxygenation level-dependent fMRI signal is modulated by behavioral state and correlates with evoked response in sensorimotor cortex: A 7T fMRI study. Human Brain Mapping, 2012, 33, 511-522.	3.6	20

#	ARTICLE	IF	CITATIONS
55	Real-Time Decoding of Brain Responses to Visuospatial Attention Using 7T fMRI. PLoS ONE, 2011, 6, e27638.	2.5	30
56	Cortical Depth-Dependent Temporal Dynamics of the BOLD Response in the Human Brain. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1999-2008.	4.3	118
57	High-field MRS of the human brain at short TE and TR. NMR in Biomedicine, 2011, 24, 1081-1088.	2.8	43
58	fMRI based BCI control using spatial visual attention at 7T., 2009, , .		4