

# Wietske van der Zwaag

## List of Publications by Year in descending order

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Version: 2024-02-01

83

papers

4,305

citations

159585

30

h-index

133252

59

g-index

91

all docs

91

docs citations

91

times ranked

5104

citing authors

#	ARTICLE	IF	CITATIONS
1	MP2RAGE, a self bias-field corrected sequence for improved segmentation and T1-mapping at high field. <i>NeuroImage</i> , 2010, 49, 1271-1281.	4.2	1,075
2	Human Primary Auditory Cortex Follows the Shape of Heschl's Gyrus. <i>Journal of Neuroscience</i> , 2011, 31, 14067-14075.	3.6	245
3	fMRI at 1.5, 3 and 7 T: Characterising BOLD signal changes. <i>NeuroImage</i> , 2009, 47, 1425-1434.	4.2	240
4	Human finger somatotopy in areas 3b, 1, and 2: A 7T fMRI study using a natural stimulus. <i>Human Brain Mapping</i> , 2014, 35, 213-226.	3.6	182
5	Ultra-high field MRI: Advancing systems neuroscience towards mesoscopic human brain function. <i>NeuroImage</i> , 2018, 168, 345-357.	4.2	151
6	EEG-fMRI integration for the study of human brain function. <i>NeuroImage</i> , 2014, 102, 24-34.	4.2	117
7	Recent applications of UHF-MRI in the study of human brain function and structure: a review. <i>NMR in Biomedicine</i> , 2016, 29, 1274-1288.	2.8	81
8	Upper limb cortical maps in amputees with targeted muscle and sensory reinnervation. <i>Brain</i> , 2017, 140, 2993-3011.	7.6	78
9	Tuning In to Sound: Frequency-Selective Attentional Filter in Human Primary Auditory Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 1858-1863.	3.6	76
10	Comparing functional MRI protocols for small, iron-rich basal ganglia nuclei such as the subthalamic nucleus at 7 T and 3 T. <i>Human Brain Mapping</i> , 2017, 38, 3226-3248.	3.6	76
11	Chronotopic maps in human supplementary motor area. <i>PLoS Biology</i> , 2019, 17, e3000026.	5.6	74
12	Topographic Maps of Visual Space in the Human Cerebellum. <i>Current Biology</i> , 2019, 29, 1689-1694.e3.	3.9	69
13	Cerebellar Cortical Layers: In Vivo Visualization with Structural High-Field-Strength MR Imaging. <i>Radiology</i> , 2010, 254, 942-948.	7.3	66
14	Temporal SNR characteristics in segmented 3D-EPI at 7T. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 344-352.	3.0	64
15	Simultaneous EEG-fMRI at ultra-high field: Artifact prevention and safety assessment. <i>NeuroImage</i> , 2015, 105, 132-144.	4.2	63
16	MP2RAGEME: T <sub>1</sub> , T <sub>2</sub> <sup>*</sup> , and QSM mapping in one sequence at 7 tesla. <i>Human Brain Mapping</i> , 2019, 40, 1786-1798.	3.6	61
17	Signal fluctuations in fMRI data acquired with 2D-EPI and 3D-EPI at 7 Tesla. <i>Magnetic Resonance Imaging</i> , 2013, 31, 212-220.	1.8	60
18	Anatomical and functional properties of the foot and leg representation in areas 3b, 1 and 2 of primary somatosensory cortex in humans: A 7T fMRI study. <i>NeuroImage</i> , 2017, 159, 473-487.	4.2	59

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19	The neural correlates of the awe experience: Reduced default mode network activity during feelings of awe. Human Brain Mapping, 2019, 40, 3561-3574.	3.6	58
20	Advances in resting state fMRI acquisitions for functional connectomics. NeuroImage, 2021, 243, 118503.	4.2	58
21	Differential patterns of functional and structural plasticity within and between inferior frontal gyri support training-induced improvements in inhibitory control proficiency. Human Brain Mapping, 2015, 36, 2527-2543.	3.6	57
22	Towards high-quality simultaneous EEG-fMRI at 7 T: Detection and reduction of EEG artifacts due to head motion. NeuroImage, 2015, 120, 143-153.	4.2	53
23	Three-dimensional echo planar imaging with controlled aliasing: A sequence for high temporal resolution functional MRI. Magnetic Resonance in Medicine, 2016, 75, 2350-2361.	3.0	53
24	Whole-body somatotopic maps in the cerebellum revealed with 7T fMRI. NeuroImage, 2020, 211, 116624.	4.2	48
25	Digit somatotopy in the human cerebellum: A 7T fMRI study. NeuroImage, 2013, 67, 354-362.	4.2	44
26	In vivo measurement of glycine with short echo-time 1H MRS in human brain at 7 T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 1-4.	2.0	42
27	Metabolite concentration changes associated with positive and negative BOLD responses in the human visual cortex: A functional MRS study at 7 Tesla. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 488-500.	4.3	40
28	Ballistocardiogram artifact correction taking into account physiological signal preservation in simultaneous EEG-fMRI. NeuroImage, 2016, 135, 45-63.	4.2	39
29	Where sound position influences sound object representations: A 7-T fMRI study. NeuroImage, 2011, 54, 1803-1811.	4.2	38
30	Visualizing the Human Subcortex Using Ultra-high Field Magnetic Resonance Imaging. Brain Topography, 2018, 31, 513-545.	1.8	38
31	Functional organization of face processing in the human superior temporal sulcus: a 7T high-resolution fMRI study. Social Cognitive and Affective Neuroscience, 2018, 13, 102-113.	3.0	38
32	Improved echo volumar imaging (EVI) for functional MRI. Magnetic Resonance in Medicine, 2006, 56, 1320-1327.	3.0	36
33	Representations of time in human frontoparietal cortex. Communications Biology, 2018, 1, 233.	4.4	35
34	Influence of physiological noise on accelerated 2D and 3D resting state functional MRI data at 7T. Magnetic Resonance in Medicine, 2017, 78, 888-896.	3.0	34
35	QSM reconstruction challenge 2.0: A realistic in silico head phantom for MRI data simulation and evaluation of susceptibility mapping procedures. Magnetic Resonance in Medicine, 2021, 86, 526-542.	3.0	34
36	A 7 Tesla fMRI Study of Amygdala Responses to Fearful Faces. Brain Topography, 2012, 25, 125-128.	1.8	32

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37	Distortion-matched T1 maps and unbiased T1-weighted images as anatomical reference for high-resolution fMRI. <i>NeuroImage</i> , 2018, 176, 41-55.	4.2	32
38	fMRI protocol optimization for simultaneously studying small subcortical and cortical areas at 7T. <i>NeuroImage</i> , 2020, 219, 116992.	4.2	32
39	Minimization of Nyquist ghosting for echo-planar imaging at ultra-high fields based on a negative readout gradient strategy. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 1171-1178.	3.4	31
40	Mapping and characterization of positive and negative BOLD responses to visual stimulation in multiple brain regions at 7T. <i>Human Brain Mapping</i> , 2018, 39, 2426-2441.	3.6	27
41	Investigation of high-resolution functional magnetic resonance imaging by means of surface and array radiofrequency coils at 7 T. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1011-1018.	1.8	26
42	Tonotopic Gradients in Human Primary Auditory Cortex: Concurring Evidence From High-Resolution 7T and 3T fMRI. <i>Brain Topography</i> , 2015, 28, 66-69.	1.8	26
43	Neural decoding of discriminative auditory object features depends on their socio-affective valence. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 1638-1649.	3.0	26
44	Ultra-high field fMRI reveals origins of feedforward and feedback activity within laminae of human ocular dominance columns. <i>NeuroImage</i> , 2021, 228, 117683.	4.2	25
45	Topographic numerosity maps cover subitizing and estimation ranges. <i>Nature Communications</i> , 2021, 12, 3374.	12.8	24
46	Individualized cognitive neuroscience needs 7T: Comparing numerosity maps at 3T and 7T MRI. <i>NeuroImage</i> , 2021, 237, 118184.	4.2	23
47	Comparison of an 8-Channel and a 32-Channel Coil for High-Resolution fMRI at 7T. <i>Brain Topography</i> , 2014, 27, 209-212.	1.8	22
48	A novel manipulation method of human body ownership using an fMRI-compatible master-slave system. <i>Journal of Neuroscience Methods</i> , 2014, 235, 25-34.	2.5	22
49	Distinct contributions of Brodmann areas 1 and 2 to body ownership. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 1449-1459.	3.0	22
50	High resolution SE-fMRI in humans at 3 and 7 T using a motor task. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2008, 21, 113-120.	2.0	20
51	High-Resolution fMRI of Auditory Cortical Map Changes in Unilateral Hearing Loss and Tinnitus. <i>Brain Topography</i> , 2017, 30, 685-697.	1.8	20
52	Denosing High-Field Multi-Dimensional MRI With Local Complex PCA. <i>Frontiers in Neuroscience</i> , 2019, 13, 1066.	2.8	20
53	Presurgical brain mapping in epilepsy using simultaneous EEG and functional MRI at ultra-high field: feasibility and first results. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 605-616.	2.0	19
54	Surface-based characteristics of the cerebellar cortex visualized with ultra-high field MRI. <i>NeuroImage</i> , 2018, 172, 1-8.	4.2	18

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55	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
56	Sustained enhancements in inhibitory control depend primarily on the reinforcement of fronto-basal anatomical connectivity. <i>Brain Structure and Function</i> , 2017, 222, 635-643.	2.3	17
57	In vivo Structural Imaging of the Cerebellum, the Contribution of Ultra-High Fields. <i>Cerebellum</i> , 2012, 11, 384-391.	2.5	15
58	Can 7T MPRAGE match MP2RAGE for gray-white matter contrast?. <i>NeuroImage</i> , 2021, 240, 118384.	4.2	15
59	Stroking or Buzzing? A Comparison of Somatosensory Touch Stimuli Using 7 Tesla fMRI. <i>PLoS ONE</i> , 2015, 10, e0134610.	2.5	14
60	Physiological noise in human cerebellar fMRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015, 28, 485-492.	2.0	14
61	Comparison of three commercially available radio frequency coils for human brain imaging at 3 Tesla. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2008, 21, 53-61.	2.0	13
62	Sharpness in motion corrected quantitative imaging at 7T. <i>NeuroImage</i> , 2020, 222, 117227.	4.2	13
63	Whole brain measurements of the positive BOLD response variability during a finger tapping task at 7 T show regional differences in its profiles. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2720-2727.	3.0	12
64	Eddy current effects on a clinical 7T-68cm bore scanner. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010, 23, 39-43.	2.0	11
65	Functional magnetic resonance imaging responses during perceptual decision-making at 3 and 7T in human cortex, striatum, and brainstem. <i>Human Brain Mapping</i> , 2022, 43, 1265-1279.	3.6	11
66	Single subject and group whole-brain fMRI mapping of male genital sensation at 7 Tesla. <i>Scientific Reports</i> , 2020, 10, 2487.	3.3	10
67	Improved temporal resolution for functional studies with reduced number of segments with three-dimensional echo planar imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 786-792.	3.0	9
68	Whole brain 7T-fMRI during pelvic floor muscle contraction in male subjects. <i>Neurourology and Urodynamics</i> , 2020, 39, 382-392.	1.5	9
69	Comparing hand movement rate dependence of cerebral blood volume and BOLD responses at 7T. <i>NeuroImage</i> , 2021, 226, 117623.	4.2	8
70	Comparing BOLD and VASO-CBV population receptive field estimates in human visual cortex. <i>NeuroImage</i> , 2022, 248, 118868.	4.2	8
71	High spatio-temporal resolution in functional MRI with 3D echo planar imaging using cylindrical excitation and a CAIPIRINHA undersampling pattern. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2589-2596.	3.0	7
72	A local multi-transmit coil combined with a high-density receive array for cerebellar fMRI at 7T. <i>NMR in Biomedicine</i> , 2021, 34, e4586.	2.8	7

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73	Predictive coding during action observation – A depth-resolved intersubject functional correlation study at 7T. <i>Cortex</i> , 2022, 148, 121-138.	2.4	7
74	Retinotopic encoding of the Ternus-Pikler display reflected in the early visual areas. <i>Journal of Vision</i> , 2016, 16, 26.	0.3	6
75	Representation of Sound Objects within Early-Stage Auditory Areas: A Repetition Effect Study Using 7T fMRI. <i>PLoS ONE</i> , 2015, 10, e0124072.	2.5	5
76	Examples of sub-millimeter, 7T, T1-weighted EPI datasets acquired with the T123DEPI sequence. <i>Data in Brief</i> , 2018, 20, 415-418.	1.0	4
77	Relation between palm and finger cortical representations in primary somatosensory cortex: A 7T fMRI study. <i>Human Brain Mapping</i> , 2021, 42, 2262-2277.	3.6	4
78	Laminar analysis of the cerebellar cortex shows widespread damage in early MS patients: A pilot study at 7T MRI. <i>Multiple Sclerosis Journal - Experimental, Translational and Clinical</i> , 2020, 6, 205521732096140.	1.0	1
79	Auditory timing-tuned neural responses in the human auditory cortices. <i>NeuroImage</i> , 2022, 258, 119366.	4.2	1
80	EEG and fMRI correlates of non-retinotopic motion processing in the human visual system. <i>Journal of Vision</i> , 2015, 15, 1183.	0.3	0
81	Chronotopic maps in human premotor cortex. <i>Journal of Vision</i> , 2018, 18, 963.	0.3	0
82	Multi-center mapping of human ocular dominance columns with BOLD fMRI. <i>Journal of Vision</i> , 2019, 19, 64b.	0.3	0
83	Topographic maps of visual space in the human cerebellum. <i>Journal of Vision</i> , 2019, 19, 307.	0.3	0