

# 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

159358

30  
h-index

133063

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.	2.1	1,075
2	Human Primary Auditory Cortex Follows the Shape of Heschl's Gyrus. <i>Journal of Neuroscience</i> , 2011, 31, 14067-14075.	1.7	245
3	fMRI at 1.5, 3 and 7 T: Characterising BOLD signal changes. <i>NeuroImage</i> , 2009, 47, 1425-1434.	2.1	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.	1.9	182
5	Ultra-high field MRI: Advancing systems neuroscience towards mesoscopic human brain function. <i>NeuroImage</i> , 2018, 168, 345-357.	2.1	151
6	EEG-fMRI integration for the study of human brain function. <i>NeuroImage</i> , 2014, 102, 24-34.	2.1	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.	1.6	81
8	Upper limb cortical maps in amputees with targeted muscle and sensory reinnervation. <i>Brain</i> , 2017, 140, 2993-3011.	3.7	78
9	Tuning In to Sound: Frequency-Selective Attentional Filter in Human Primary Auditory Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 1858-1863.	1.7	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.	1.9	76
11	Chronotopic maps in human supplementary motor area. <i>PLoS Biology</i> , 2019, 17, e3000026.	2.6	74
12	Topographic Maps of Visual Space in the Human Cerebellum. <i>Current Biology</i> , 2019, 29, 1689-1694.e3.	1.8	69
13	Cerebellar Cortical Layers: In Vivo Visualization with Structural High-Field-Strength MR Imaging. <i>Radiology</i> , 2010, 254, 942-948.	3.6	66
14	Temporal SNR characteristics in segmented 3D-EPI at 7T. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 344-352.	1.9	64
15	Simultaneous EEG-fMRI at ultra-high field: Artifact prevention and safety assessment. <i>NeuroImage</i> , 2015, 105, 132-144.	2.1	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.	1.9	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.	1.0	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.	2.1	59

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19	The neural correlates of the awe experience: Reduced default mode network activity during feelings of awe. <i>Human Brain Mapping</i> , 2019, 40, 3561-3574.	1.9	58
20	Advances in resting state fMRI acquisitions for functional connectomics. <i>NeuroImage</i> , 2021, 243, 118503.	2.1	58
21	Differential patterns of functional and structural plasticity within and between inferior frontal gyri support training-induced improvements in inhibitory control proficiency. <i>Human Brain Mapping</i> , 2015, 36, 2527-2543.	1.9	57
22	Towards high-quality simultaneous EEG-fMRI at 7 T: Detection and reduction of EEG artifacts due to head motion. <i>NeuroImage</i> , 2015, 120, 143-153.	2.1	53
23	Three-dimensional echo planar imaging with controlled aliasing: A sequence for high temporal resolution functional MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2350-2361.	1.9	53
24	Whole-body somatotopic maps in the cerebellum revealed with 7T fMRI. <i>NeuroImage</i> , 2020, 211, 116624.	2.1	48
25	Digit somatotopy in the human cerebellum: A 7T fMRI study. <i>NeuroImage</i> , 2013, 67, 354-362.	2.1	44
26	In vivo measurement of glycine with short echo-time 1H MRS in human brain at 7 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 1-4.	1.1	42
27	Metabolite concentration changes associated with positive and negative BOLD responses in the human visual cortex: A functional MRS study at 7 Tesla. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 488-500.	2.4	40
28	Ballistocardiogram artifact correction taking into account physiological signal preservation in simultaneous EEG-fMRI. <i>NeuroImage</i> , 2016, 135, 45-63.	2.1	39
29	Where sound position influences sound object representations: A 7-T fMRI study. <i>NeuroImage</i> , 2011, 54, 1803-1811.	2.1	38
30	Visualizing the Human Subcortex Using Ultra-high Field Magnetic Resonance Imaging. <i>Brain Topography</i> , 2018, 31, 513-545.	0.8	38
31	Functional organization of face processing in the human superior temporal sulcus: a 7T high-resolution fMRI study. <i>Social Cognitive and Affective Neuroscience</i> , 2018, 13, 102-113.	1.5	38
32	Improved echo volumar imaging (EVI) for functional MRI. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1320-1327.	1.9	36
33	Representations of time in human frontoparietal cortex. <i>Communications Biology</i> , 2018, 1, 233.	2.0	35
34	Influence of physiological noise on accelerated 2D and 3D resting state functional MRI data at 7T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 888-896.	1.9	34
35	QSM reconstruction challenge 2.0: A realistic in silico head phantom for MRI data simulation and evaluation of susceptibility mapping procedures. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 526-542.	1.9	34
36	A 7 Tesla fMRI Study of Amygdala Responses to Fearful Faces. <i>Brain Topography</i> , 2012, 25, 125-128.	0.8	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.	2.1	32
38	fMRI protocol optimization for simultaneously studying small subcortical and cortical areas at 7T. <i>NeuroImage</i> , 2020, 219, 116992.	2.1	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.	1.9	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.	1.9	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.	1.0	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.	0.8	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.	1.5	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.	2.1	25
45	Topographic numerosity maps cover subitizing and estimation ranges. <i>Nature Communications</i> , 2021, 12, 3374.	5.8	24
46	Individualized cognitive neuroscience needs 7T: Comparing numerosity maps at 3T and 7T MRI. <i>NeuroImage</i> , 2021, 237, 118184.	2.1	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.	0.8	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.	1.3	22
49	Distinct contributions of Brodmann areas 1 and 2 to body ownership. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 1449-1459.	1.5	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.	1.1	20
51	High-Resolution fMRI of Auditory Cortical Map Changes in Unilateral Hearing Loss and Tinnitus. <i>Brain Topography</i> , 2017, 30, 685-697.	0.8	20
52	Denosing High-Field Multi-Dimensional MRI With Local Complex PCA. <i>Frontiers in Neuroscience</i> , 2019, 13, 1066.	1.4	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.	1.1	19
54	Surface-based characteristics of the cerebellar cortex visualized with ultra-high field MRI. <i>NeuroImage</i> , 2018, 172, 1-8.	2.1	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.	2.4	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.	1.2	17
57	In vivo Structural Imaging of the Cerebellum, the Contribution of Ultra-High Fields. <i>Cerebellum</i> , 2012, 11, 384-391.	1.4	15
58	Can 7T MPRAGE match MP2RAGE for gray-white matter contrast?. <i>NeuroImage</i> , 2021, 240, 118384.	2.1	15
59	Stroking or Buzzing? A Comparison of Somatosensory Touch Stimuli Using 7 Tesla fMRI. <i>PLoS ONE</i> , 2015, 10, e0134610.	1.1	14
60	Physiological noise in human cerebellar fMRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015, 28, 485-492.	1.1	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.	1.1	13
62	Sharpness in motion corrected quantitative imaging at 7T. <i>NeuroImage</i> , 2020, 222, 117227.	2.1	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.	1.9	12
64	Eddy current effects on a clinical 7T-68Åcm bore scanner. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010, 23, 39-43.	1.1	11
65	Functional magnetic resonance imaging responses during perceptual decision-making at 3 and 7ÅT in human cortex, striatum, and brainstem. <i>Human Brain Mapping</i> , 2022, 43, 1265-1279.	1.9	11
66	Single subject and group whole-brain fMRI mapping of male genital sensation at 7 Tesla. <i>Scientific Reports</i> , 2020, 10, 2487.	1.6	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.	1.9	9
68	Whole brain 7T-fMRI during pelvic floor muscle contraction in male subjects. <i>Neurourology and Urodynamics</i> , 2020, 39, 382-392.	0.8	9
69	Comparing hand movement rate dependence of cerebral blood volume and BOLD responses at 7T. <i>NeuroImage</i> , 2021, 226, 117623.	2.1	8
70	Comparing BOLD and VASO-CBV population receptive field estimates in human visual cortex. <i>NeuroImage</i> , 2022, 248, 118868.	2.1	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.	1.9	7
72	A local multi-transmit coil combined with a high-density receive array for cerebellar fMRI at 7ÅT. <i>NMR in Biomedicine</i> , 2021, 34, e4586.	1.6	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.	1.1	7
74	Retinotopic encoding of the Ternus-Pikler display reflected in the early visual areas. <i>Journal of Vision</i> , 2016, 16, 26.	0.1	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.	1.1	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.	0.5	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.	1.9	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.	0.5	1
79	Auditory timing-tuned neural responses in the human auditory cortices. <i>NeuroImage</i> , 2022, 258, 119366.	2.1	1
80	EEG and fMRI correlates of non-retinotopic motion processing in the human visual system. <i>Journal of Vision</i> , 2015, 15, 1183.	0.1	0
81	Chronotopic maps in human premotor cortex. <i>Journal of Vision</i> , 2018, 18, 963.	0.1	0
82	Multi-center mapping of human ocular dominance columns with BOLD fMRI. <i>Journal of Vision</i> , 2019, 19, 64b.	0.1	0
83	Topographic maps of visual space in the human cerebellum. <i>Journal of Vision</i> , 2019, 19, 307.	0.1	0