

# Kevin Whittingstall

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,860  
citations

218677

26  
h-index

197818

49  
g-index

66  
all docs

66  
docs citations

66  
times ranked

4332  
citing authors

#	ARTICLE	IF	CITATIONS
1	A voice region in the monkey brain. <i>Nature Neuroscience</i> , 2008, 11, 367-374.	14.8	323
2	Frequency-Band Coupling in Surface EEG Reflects Spiking Activity in Monkey Visual Cortex. <i>Neuron</i> , 2009, 64, 281-289.	8.1	314
3	Towards quantitative connectivity analysis: reducing tractography biases. <i>NeuroImage</i> , 2014, 98, 266-278.	4.2	270
4	A ketogenic drink improves brain energy and some measures of cognition in mild cognitive impairment. <i>Alzheimer's and Dementia</i> , 2019, 15, 625-634.	0.8	137
5	Ketogenic Medium Chain Triglycerides Increase Brain Energy Metabolism in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2018, 64, 551-561.	2.6	104
6	Understanding the relationships between spike rate and delta/gamma frequency bands of LFPs and EEGs using a local cortical network model. <i>NeuroImage</i> , 2010, 52, 956-972.	4.2	101
7	Effects of Neural Synchrony on Surface EEG. <i>Cerebral Cortex</i> , 2014, 24, 1045-1053.	2.9	96
8	The morphology of the human cerebrovascular system. <i>Human Brain Mapping</i> , 2018, 39, 4962-4975.	3.6	78
9	Individual Differences in Pain Sensitivity Vary as a Function of Precuneus Reactivity. <i>Brain Topography</i> , 2014, 27, 366-374.	1.8	70
10	Effects of dipole position, orientation and noise on the accuracy of EEG source localization. <i>BioMedical Engineering OnLine</i> , 2003, 2, 14.	2.7	67
11	Real-time multi-peak tractography for instantaneous connectivity display. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 59.	2.5	67
12	Regional variations in vascular density correlate with resting-state and task-evoked blood oxygen level-dependent signal amplitude. <i>Human Brain Mapping</i> , 2014, 35, 1906-1920.	3.6	59
13	Dopamine-Induced Dissociation of BOLD and Neural Activity in Macaque Visual Cortex. <i>Current Biology</i> , 2014, 24, 2805-2811.	3.9	55
14	Neural and BOLD responses across the brain. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2012, 3, 75-86.	2.8	54
15	Structural network underlying visuospatial imagery in humans. <i>Cortex</i> , 2014, 56, 85-98.	2.4	53
16	Axtract: Toward microstructure informed tractography. <i>Human Brain Mapping</i> , 2017, 38, 5485-5500.	3.6	47
17	Stimulus Statistics Shape Oscillations in Nonlinear Recurrent Neural Networks. <i>Journal of Neuroscience</i> , 2015, 35, 2895-2903.	3.6	46
18	Spatial distribution of resting-state BOLD regional homogeneity as a predictor of brain glucose uptake: A study in healthy aging. <i>NeuroImage</i> , 2017, 150, 14-22.	4.2	43

#	ARTICLE	IF	CITATIONS
19	Evaluating the spatial relationship of event-related potential and functional MRI sources in the primary visual cortex. <i>Human Brain Mapping</i> , 2007, 28, 134-142.	3.6	42
20	Active delineation of Meyer's loop using oriented priors through MAGNETic tractography (MAGNET). <i>Human Brain Mapping</i> , 2017, 38, 509-527.	3.6	42
21	Integration of EEG source imaging and fMRI during continuous viewing of natural movies. <i>Magnetic Resonance Imaging</i> , 2010, 28, 1135-1142.	1.8	39
22	Exploratory study of the effect of brain tumors on the default mode network. <i>Journal of Neuro-Oncology</i> , 2016, 128, 437-444.	2.9	37
23	Sex Differences in the Neural Representation of Pain Unpleasantness. <i>Journal of Pain</i> , 2014, 15, 867-877.	1.4	36
24	3D interactive tractography-informed resting-state fMRI connectivity. <i>Frontiers in Neuroscience</i> , 2015, 9, 275.	2.8	33
25	Association of Prenatal Acetaminophen Exposure Measured in Meconium With Risk of Attention-Deficit/Hyperactivity Disorder Mediated by Frontoparietal Network Brain Connectivity. <i>JAMA Pediatrics</i> , 2020, 174, 1073.	6.2	31
26	Effects of Transcranial Stimulation With Direct and Alternating Current on Resting-State Functional Connectivity: An Exploratory Study Simultaneously Combining Stimulation and Multiband Functional Magnetic Resonance Imaging. <i>Frontiers in Human Neuroscience</i> , 2020, 13, 474.	2.0	29
27	Correspondence of Visual Evoked Potentials with fMRI Signals in Human Visual Cortex. <i>Brain Topography</i> , 2008, 21, 86-92.	1.8	28
28	Stimulus-evoked changes in cerebral vessel diameter: A study in healthy humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 528-539.	4.3	28
29	Tractography in the Study of the Human Brain: A Neurosurgical Perspective. <i>Canadian Journal of Neurological Sciences</i> , 2012, 39, 747-756.	0.5	27
30	On the Origin of Individual Functional Connectivity Variability: The Role of White Matter Architecture. <i>Brain Connectivity</i> , 2017, 7, 491-503.	1.7	27
31	White matter information flow mapping from diffusion MRI and EEG. <i>NeuroImage</i> , 2019, 201, 116017.	4.2	27
32	Delta-Band Oscillations in Motor Regions Predict Hand Selection for Reaching. <i>Cerebral Cortex</i> , 2016, 28, 574-584.	2.9	26
33	The Effectiveness of Transcranial Direct Current Stimulation as an Add-on Modality to Graded Motor Imagery for Treatment of Complex Regional Pain Syndrome. <i>Clinical Journal of Pain</i> , 2018, 34, 145-154.	1.9	26
34	Assessment of Effective Connectivity and Plasticity With Dual-Coil Transcranial Magnetic Stimulation. <i>Brain Stimulation</i> , 2016, 9, 347-355.	1.6	25
35	Relationship of the BOLD Signal with VEP for Ultrashort Duration Visual Stimuli (0.1 to 5 ms) in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 449-458.	4.3	23
36	Using fMRI non-local means denoising to uncover activation in sub-cortical structures at 1.5 T for guided HARDI tractography. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 715.	2.0	23

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37	Attenuation of visual reafferent signals in the parietal cortex during voluntary movement. <i>Journal of Neurophysiology</i> , 2016, 116, 1831-1839.	1.8	21
38	Paracetamol is a centrally acting analgesic using mechanisms located in the periaqueductal grey. <i>British Journal of Pharmacology</i> , 2020, 177, 1773-1792.	5.4	21
39	Diffusion MRI monitoring of specific structures in the irradiated rat brain. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1614-1625.	3.0	18
40	Added value of money on motor performance feedback: Increased left central beta-band power for rewards and fronto-central theta-band power for punishments. <i>NeuroImage</i> , 2018, 179, 63-78.	4.2	18
41	Cortical distance, not cancellation, dominates inter-subject EEG gamma rhythm amplitude. <i>NeuroImage</i> , 2019, 192, 156-165.	4.2	17
42	Decorrelated Input Dissociates Narrow Band $\beta^3$ Power and BOLD in Human Visual Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 5408-5418.	3.6	16
43	Perturbing the activity of the superior temporal gyrus during pain encoding prevents the exaggeration of pain memories: A virtual lesion study using single-pulse transcranial magnetic stimulation. <i>Neurobiology of Learning and Memory</i> , 2020, 169, 107174.	1.9	16
44	Semi-Automatic Segmentation of Optic Radiations and LGN, and Their Relationship to EEG Alpha Waves. <i>PLoS ONE</i> , 2016, 11, e0156436.	2.5	15
45	Differential Recruitment of Parietal Cortex during Spatial and Non-spatial Reach Planning. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 249.	2.0	15
46	Seeing More by Showing Less: Orientation-Dependent Transparency Rendering for Fiber Tractography Visualization. <i>PLoS ONE</i> , 2015, 10, e0139434.	2.5	14
47	Application of polymer sensitive MRI sequence to localization of EEG electrodes. <i>Journal of Neuroscience Methods</i> , 2017, 278, 36-45.	2.5	13
48	The regional effect of serum hormone levels on cerebral blood flow in healthy nonpregnant women. <i>Human Brain Mapping</i> , 2021, 42, 5677-5688.	3.6	13
49	Dipole localization accuracy using grand-average EEG data sets. <i>Clinical Neurophysiology</i> , 2004, 115, 2108-2112.	1.5	12
50	Understanding the continuum of radionecrosis and vascular disorders in the brain following gamma knife irradiation: An MRI study. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1420-1431.	3.0	11
51	Cortical Thinning in Healthy Aging Correlates with Larger Motor-Evoked EEG Desynchronization. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 63.	3.4	10
52	Luring the Motor System: Impact of Performance-Contingent Incentives on Pre-Movement Beta-Band Activity and Motor Performance. <i>Journal of Neuroscience</i> , 2019, 39, 2903-2914.	3.6	9
53	Structural impacts on the timing and amplitude of the negative BOLD response. <i>Magnetic Resonance Imaging</i> , 2018, 45, 34-42.	1.8	8
54	Fatty acid profile in cord blood of neonates born to optimally controlled gestational diabetes mellitus. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2016, 115, 48-52.	2.2	7

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55	Fiberweb: Diffusion Visualization and Processing in the Browser. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 54.	2.5	7
56	The relationship between persistent organic pollutants and Attention Deficit Hyperactivity Disorder phenotypes: Evidence from task-based neural activity in an observational study of a community sample of Canadian mother-child dyads. <i>Environmental Research</i> , 2022, 206, 112593.	7.5	7
57	Significance of Non-phase Locked Oscillatory Brain Activity in Response to Noxious Stimuli. <i>Canadian Journal of Neurological Sciences</i> , 2015, 42, 436-443.	0.5	6
58	Increased BOLD activation in the left parahippocampal cortex after 1 year of medical school. <i>NeuroReport</i> , 2016, 27, 45-49.	1.2	5
59	Neurophysiological basis of contrast dependent BOLD orientation tuning. <i>NeuroImage</i> , 2020, 206, 116323.	4.2	5
60	High-Grade Gliomas Located in the Right Hemisphere Are Associated With Worse Quality of Life. <i>World Neurosurgery</i> , 2021, 149, e721-e728.	1.3	5
61	Modern Technology in Multi-Shell Diffusion MRI Reveals Diffuse White Matter Changes in Young Adults With Relapsing-Remitting Multiple Sclerosis. <i>Frontiers in Neuroscience</i> , 2021, 15, 665017.	2.8	5
62	Single-Pulse TMS over the Parietal Cortex Does Not Impair Sensorimotor Perturbation-Induced Changes in Motor Commands. <i>ENeuro</i> , 2020, 7, ENEURO.0209-19.2020.	1.9	5
63	Pilot study of EEG in neonates born to mothers with gestational diabetes mellitus. <i>International Journal of Developmental Neuroscience</i> , 2018, 66, 37-44.	1.6	4
64	A frequency-band coupling model of EEG signals can capture features from an input audio stimulus. <i>Hearing Research</i> , 2020, 393, 107994.	2.0	3
65	Sexual dimorphism in the cerebrovascular network: Brain MRI shows lower arterial density in women. <i>Journal of Neuroimaging</i> , 2022, 32, 337-344.	2.0	1