

# Robert Oostenveld

## List of Publications by Year in descending order

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138  
papers

43,724  
citations

15880

67  
h-index

11946

139  
g-index

162  
all docs

162  
docs citations

162  
times ranked

31926  
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified view on beamformers for M/EEG source reconstruction. <i>NeuroImage</i> , 2022, 246, 118789.	2.1	50
2	Are alpha and beta oscillations spatially dissociated over the cortex in context-driven spoken word production?. <i>Psychophysiology</i> , 2022, 59, e13999.	1.2	8
3	Brain structural and functional correlates to defense-related inhibition of muscle sympathetic nerve activity in man. <i>Scientific Reports</i> , 2022, 12, 1990.	1.6	4
4	PET-BIDS, an extension to the brain imaging data structure for positron emission tomography. <i>Scientific Data</i> , 2022, 9, 65.	2.4	20
5	Sharing individualised template MRI data for MEG source reconstruction: A solution for open data while keeping subject confidentiality. <i>NeuroImage</i> , 2022, 254, 119165.	2.1	11
6	Editorial: From Raw MEG/EEG to Publication: How to Perform MEG/EEG Group Analysis With Free Academic Software. <i>Frontiers in Neuroscience</i> , 2022, 16, 854471.	1.4	5
7	Microscopy-BIDS: An Extension to the Brain Imaging Data Structure for Microscopy Data. <i>Frontiers in Neuroscience</i> , 2022, 16, 871228.	1.4	11
8	The Time Course of Language Production as Revealed by Pattern Classification of MEG Sensor Data. <i>Journal of Neuroscience</i> , 2022, 42, 5745-5754.	1.7	3
9	Estimating the influence of stroke lesions on MEG source reconstruction. <i>NeuroImage</i> , 2022, 260, 119422.	2.1	4
10	Advances in human intracranial electroencephalography research, guidelines and good practices. <i>NeuroImage</i> , 2022, 260, 119438.	2.1	50
11	The Open Brain Consent: Informing research participants and obtaining consent to share brain imaging data. <i>Human Brain Mapping</i> , 2021, 42, 1945-1951.	1.9	27
12	#EEGManyLabs: Investigating the replicability of influential EEG experiments. <i>Cortex</i> , 2021, 144, 213-229.	1.1	52
13	Magnetoencephalography reveals increased slow-to-fast alpha power ratios in patients with chronic pain. <i>Pain Reports</i> , 2021, 6, e928.	1.4	13
14	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , 2021, 109, 1769-1775.	3.8	27
15	Centering inclusivity in the design of online conferences: An OHBM Open Science perspective. <i>GigaScience</i> , 2021, 10, .	3.3	14
16	The Human Connectome Project: A retrospective. <i>NeuroImage</i> , 2021, 244, 118543.	2.1	114
17	Cerebellar Purkinje cells can differentially modulate coherence between sensory and motor cortex depending on region and behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
18	BIDScoin: A User-Friendly Application to Convert Source Data to Brain Imaging Data Structure. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 770608.	1.3	15

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19	Enhancing reproducibility in developmental EEG research: BIDS, cluster-based permutation tests, and effect sizes. <i>Developmental Cognitive Neuroscience</i> , 2021, 52, 101036.	1.9	39
20	International Federation of Clinical Neurophysiology (IFCN) " EEG research workgroup: Recommendations on frequency and topographic analysis of resting state EEG rhythms. Part 1: Applications in clinical research studies. <i>Clinical Neurophysiology</i> , 2020, 131, 285-307.	0.7	164
21	Reduction of spontaneous cortical beta bursts in Parkinson's disease is linked to symptom severity. <i>Brain Communications</i> , 2020, 2, fcaa052.	1.5	26
22	Comparison of beamformer implementations for MEG source localization. <i>NeuroImage</i> , 2020, 216, 116797.	2.1	48
23	Rapid changes in brain activity during learning of grapheme-phoneme associations in adults. <i>NeuroImage</i> , 2020, 220, 117058.	2.1	16
24	On-scalp MEG sensor localization using magnetic dipole-like coils: A method for highly accurate co-registration. <i>NeuroImage</i> , 2020, 212, 116686.	2.1	12
25	The effect of stimulation type, head modeling, and combined EEG and MEG on the source reconstruction of the somatosensory P20/N20 component. <i>Human Brain Mapping</i> , 2019, 40, 5011-5028.	1.9	36
26	iEEG-BIDS, extending the Brain Imaging Data Structure specification to human intracranial electrophysiology. <i>Scientific Data</i> , 2019, 6, 102.	2.4	96
27	Using a structured-light 3D scanner to improve EEG source modeling with more accurate electrode positions. <i>Journal of Neuroscience Methods</i> , 2019, 326, 108378.	1.3	42
28	EEG-BIDS, an extension to the brain imaging data structure for electroencephalography. <i>Scientific Data</i> , 2019, 6, 103.	2.4	209
29	A 204-subject multimodal neuroimaging dataset to study language processing. <i>Scientific Data</i> , 2019, 6, 17.	2.4	56
30	Audiovisual Processing of Chinese Characters Elicits Suppression and Congruency Effects in MEG. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 18.	1.0	19
31	Lead-DBS v2: Towards a comprehensive pipeline for deep brain stimulation imaging. <i>NeuroImage</i> , 2019, 184, 293-316.	2.1	527
32	Entrainment for attentional selection in Parkinson's disease. <i>Cortex</i> , 2018, 99, 166-178.	1.1	10
33	FieldTrip Made Easy: An Analysis Protocol for Group Analysis of the Auditory Steady State Brain Response in Time, Frequency, and Space. <i>Frontiers in Neuroscience</i> , 2018, 12, 711.	1.4	54
34	Localizing on-scalp MEG sensors using an array of magnetic dipole coils. <i>PLoS ONE</i> , 2018, 13, e0191111.	1.1	27
35	The Discontinuous Galerkin Finite Element Method for Solving the MEG and the Combined MEG/EEG Forward Problem. <i>Frontiers in Neuroscience</i> , 2018, 12, 30.	1.4	36
36	Integrated analysis of anatomical and electrophysiological human intracranial data. <i>Nature Protocols</i> , 2018, 13, 1699-1723.	5.5	130

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37	The FieldTrip-SimBio pipeline for EEG forward solutions. <i>BioMedical Engineering OnLine</i> , 2018, 17, 37.	1.3	103
38	MEG-BIDS, the brain imaging data structure extended to magnetoencephalography. <i>Scientific Data</i> , 2018, 5, 180110.	2.4	101
39	Impaired auditory-to-motor entrainment in Parkinson's disease. <i>Journal of Neurophysiology</i> , 2017, 117, 1853-1864.	0.9	18
40	Benchmarking for On-Scalp MEG Sensors. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1270-1276.	2.5	20
41	Metacognition of attention during tactile discrimination. <i>NeuroImage</i> , 2017, 147, 121-129.	2.1	23
42	Similarities and differences between on-scalp and conventional in-helmet magnetoencephalography recordings. <i>PLoS ONE</i> , 2017, 12, e0178602.	1.1	25
43	Neuronal Oscillations with Non-sinusoidal Morphology Produce Spurious Phase-to-Amplitude Coupling and Directionality. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 87.	1.2	119
44	Alpha power indexes task-related networks on large and small scales: A multimodal ECoG study in humans and a non-human primate. <i>NeuroImage</i> , 2016, 134, 122-131.	2.1	77
45	ConnectomeDB: Sharing human brain connectivity data. <i>NeuroImage</i> , 2016, 124, 1102-1107.	2.1	80
46	Effects of rhythmic stimulus presentation on oscillatory brain activity: the physiology of cueing in Parkinson's disease. <i>NeuroImage: Clinical</i> , 2015, 9, 300-309.	1.4	39
47	Separating Visual and Motor Components of Motor Cortex Activation for Multiple Reach Targets: A Visuomotor Adaptation Study. <i>Journal of Neuroscience</i> , 2015, 35, 15135-15144.	1.7	11
48	Visual Areas Exert Feedforward and Feedback Influences through Distinct Frequency Channels. <i>Neuron</i> , 2015, 85, 390-401.	3.8	1,036
49	Modulation of Posterior Alpha Activity by Spatial Attention Allows for Controlling A Continuous Brain-Computer Interface. <i>Brain Topography</i> , 2015, 28, 852-864.	0.8	15
50	Visual Cortical Gamma-Band Activity During Free Viewing of Natural Images. <i>Cerebral Cortex</i> , 2015, 25, 918-926.	1.6	107
51	Real-time MEG neurofeedback training of posterior alpha activity modulates subsequent visual detection performance. <i>NeuroImage</i> , 2015, 107, 323-332.	2.1	62
52	Predicting the Semantic Category of Internally Generated Words from Neuromagnetic Recordings. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 35-45.	1.1	13
53	How the Individual Alpha Peak Frequency Helps Unravel the Neurophysiologic Underpinnings of Behavioral Functioning in Children With Attention-Deficit/Hyperactivity Disorder. <i>Clinical EEG and Neuroscience</i> , 2015, 46, 285-291.	0.9	14
54	Cerebral coherence between communicators marks the emergence of meaning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18183-18188.	3.3	73

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55	Stimulus repetition modulates gamma-band synchronization in primate visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3626-3631.	3.3	112
56	Competitive interactions in sensorimotor cortex: oscillations express separation between alternative movement targets. Journal of Neurophysiology, 2014, 112, 224-232.	0.9	55
57	A shift from prospective to reactive modulation of beta-band oscillations in Parkinson's disease. NeuroImage, 2014, 100, 507-519.	2.1	38
58	Modality-Independent Decoding of Semantic Information from the Human Brain. Cerebral Cortex, 2014, 24, 426-434.	1.6	107
59	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. NeuroImage, 2013, 80, 125-143.	2.1	851
60	Oscillatory dynamics of response competition in human sensorimotor cortex. NeuroImage, 2013, 83, 27-34.	2.1	57
61	The WU-Minn Human Connectome Project: An overview. NeuroImage, 2013, 80, 62-79.	2.1	4,282
62	Adding dynamics to the Human Connectome Project with MEG. NeuroImage, 2013, 80, 190-201.	2.1	189
63	Online and offline tools for head movement compensation in MEG. NeuroImage, 2013, 68, 39-48.	2.1	205
64	Reduced Occipital Alpha Power Indexes Enhanced Excitability Rather than Improved Visual Perception. Journal of Neuroscience, 2013, 33, 3212-3220.	1.7	184
65	Alpha-band suppression in the visual word form area as a functional bottleneck to consciousness. NeuroImage, 2013, 78, 33-45.	2.1	21
66	Good practice for conducting and reporting MEG research. NeuroImage, 2013, 65, 349-363.	2.1	604
67	Cortical source localization of mouse extracranial electroencephalogram using the fieldtrip toolbox. , 2013, 2013, 3307-10.		1
68	Neural mechanisms of communicative innovation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14574-14579.	3.3	48
69	Dipole Source Localization of Mouse Electroencephalogram Using the Fieldtrip Toolbox. PLoS ONE, 2013, 8, e79442.	1.1	14
70	Orientation selectivity and noise correlation in awake monkey area V1 are modulated by the gamma cycle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4302-4307.	3.3	108
71	Estimating workload using EEG spectral power and ERPs in the n-back task. Journal of Neural Engineering, 2012, 9, 045008.	1.8	279
72	Movement-Related Changes in Local and Long-Range Synchronization in Parkinson's Disease Revealed by Simultaneous Magnetoencephalography and Intracranial Recordings. Journal of Neuroscience, 2012, 32, 10541-10553.	1.7	176

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73	The Human Connectome Project: A data acquisition perspective. <i>NeuroImage</i> , 2012, 62, 2222-2231.	2.1	1,978
74	Attentional Stimulus Selection through Selective Synchronization between Monkey Visual Areas. <i>Neuron</i> , 2012, 75, 875-888.	3.8	665
75	Independent EEG Sources Are Dipolar. <i>PLoS ONE</i> , 2012, 7, e30135.	1.1	669
76	The Neocortical Network Representing Associative Memory Reorganizes with Time in a Process Engaging the Anterior Temporal Lobe. <i>Cerebral Cortex</i> , 2012, 22, 2622-2633.	1.6	28
77	Resting oscillatory cortico-subthalamic connectivity in patients with Parkinson's disease. <i>Brain</i> , 2011, 134, 359-374.	3.7	387
78	An improved index of phase-synchronization for electrophysiological data in the presence of volume-conduction, noise and sample-size bias. <i>NeuroImage</i> , 2011, 55, 1548-1565.	2.1	1,212
79	Perception of the touch-induced visual double-flash illusion correlates with changes of rhythmic neuronal activity in human visual and somatosensory areas. <i>NeuroImage</i> , 2011, 54, 1395-1405.	2.1	40
80	FieldTrip: Open Source Software for Advanced Analysis of MEG, EEG, and Invasive Electrophysiological Data. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-9.	1.1	7,466
81	Neuronal Dynamics Underlying High- and Low-Frequency EEG Oscillations Contribute Independently to the Human BOLD Signal. <i>Neuron</i> , 2011, 69, 572-583.	3.8	408
82	Using Brain-Computer Interfaces and Brain-State Dependent Stimulation as Tools in Cognitive Neuroscience. <i>Frontiers in Psychology</i> , 2011, 2, 100.	1.1	50
83	EEG and MEG Data Analysis in SPM8. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-32.	1.1	500
84	Academic Software Applications for Electromagnetic Brain Mapping Using MEG and EEG. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-4.	1.1	79
85	Stress-Related Noradrenergic Activity Prompts Large-Scale Neural Network Reconfiguration. <i>Science</i> , 2011, 334, 1151-1153.	6.0	568
86	Selective Movement Preparation Is Subserved by Selective Increases in Corticomuscular Gamma-Band Coherence. <i>Journal of Neuroscience</i> , 2011, 31, 6750-6758.	1.7	93
87	Somatosensory working memory performance in humans depends on both engagement and disengagement of regions in a distributed network. <i>Human Brain Mapping</i> , 2010, 31, 26-35.	1.9	222
88	Gain of the human dura in vivo and its effects on invasive brain signal feature detection. <i>Journal of Neuroscience Methods</i> , 2010, 187, 270-279.	1.3	33
89	Optimal placement of bipolar surface EMG electrodes in the face based on single motor unit analysis. <i>Psychophysiology</i> , 2010, 47, 299-314.	1.2	31
90	Identifying Object Categories from Event-Related EEG: Toward Decoding of Conceptual Representations. <i>PLoS ONE</i> , 2010, 5, e14465.	1.1	137

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91	Gamma-Phase Shifting in Awake Monkey Visual Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 1250-1257.	1.7	165
92	MATLAB-Based Tools for BCI Research. <i>Human-computer Interaction Series</i> , 2010, , 241-259.	0.4	30
93	The $\hat{I}\pm$ -motoneuron pool as transmitter of rhythmicities in cortical motor drive. <i>Clinical Neurophysiology</i> , 2010, 121, 1633-1642.	0.7	40
94	Visually induced gamma-band activity predicts speed of change detection in humans. <i>NeuroImage</i> , 2010, 51, 1162-1167.	2.1	86
95	Optimized beamforming for simultaneous MEG and intracranial local field potential recordings in deep brain stimulation patients. <i>NeuroImage</i> , 2010, 50, 1578-1588.	2.1	123
96	Academic Software Toolboxes for the Analysis of MEG Data. <i>IFMBE Proceedings</i> , 2010, , 101-104.	0.2	4
97	A MEMS-based flexible multichannel ECoG-electrode array. <i>Journal of Neural Engineering</i> , 2009, 6, 036003.	1.8	354
98	Tactile stimulation accelerates behavioral responses to visual stimuli through enhancement of occipital gamma-band activity. <i>Vision Research</i> , 2009, 49, 931-942.	0.7	28
99	Trial-by-trial coupling between EEG and BOLD identifies networks related to alpha and theta EEG power increases during working memory maintenance. <i>NeuroImage</i> , 2009, 44, 1224-1238.	2.1	313
100	I see what you mean: Theta power increases are involved in the retrieval of lexical semantic information. <i>Brain and Language</i> , 2008, 106, 15-28.	0.8	180
101	Early decreases in alpha and gamma band power distinguish linguistic from visual information during spoken sentence comprehension. <i>Brain Research</i> , 2008, 1219, 78-90.	1.1	39
102	Prestimulus Oscillatory Activity in the Alpha Band Predicts Visual Discrimination Ability. <i>Journal of Neuroscience</i> , 2008, 28, 1816-1823.	1.7	740
103	Evidence for fast, low-level motor resonance to action observation: An MEG study. <i>Social Neuroscience</i> , 2008, 3, 213-228.	0.7	39
104	Frontal theta EEG activity correlates negatively with the default mode network in resting state. <i>International Journal of Psychophysiology</i> , 2008, 67, 242-251.	0.5	348
105	Finding Gamma. <i>Neuron</i> , 2008, 58, 303-305.	3.8	126
106	Neuronal Synchronization along the Dorsal Visual Pathway Reflects the Focus of Spatial Attention. <i>Neuron</i> , 2008, 60, 709-719.	3.8	448
107	Motor-cortical beta oscillations are modulated by correctness of observed action. <i>NeuroImage</i> , 2008, 40, 767-775.	2.1	154
108	Visual areas become less engaged in associative recall following memory stabilization. <i>NeuroImage</i> , 2008, 40, 1319-1327.	2.1	30

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109	Imaging the human motor system's beta-band synchronization during isometric contraction. <i>NeuroImage</i> , 2008, 41, 437-447.	2.1	96
110	Enhanced EEG gamma-band activity reflects multisensory semantic matching in visual-to-auditory object priming. <i>NeuroImage</i> , 2008, 42, 1244-1254.	2.1	139
111	The Effects of Visual Stimulation and Selective Visual Attention on Rhythmic Neuronal Synchronization in Macaque Area V4. <i>Journal of Neuroscience</i> , 2008, 28, 4823-4835.	1.7	379
112	High-Frequency Activity in Human Visual Cortex Is Modulated by Visual Motion Strength. <i>Cerebral Cortex</i> , 2007, 17, 732-741.	1.6	131
113	Oscillatory Activity in Human Parietal and Occipital Cortex Shows Hemispheric Lateralization and Memory Effects in a Delayed Double-Step Saccade Task. <i>Cerebral Cortex</i> , 2007, 17, 2364-2374.	1.6	149
114	Modulation of Neuronal Interactions Through Neuronal Synchronization. <i>Science</i> , 2007, 316, 1609-1612.	6.0	1,197
115	Parieto-occipital sources account for the increase in alpha activity with working memory load. <i>Human Brain Mapping</i> , 2007, 28, 785-792.	1.9	284
116	Nonparametric statistical testing of EEG- and MEG-data. <i>Journal of Neuroscience Methods</i> , 2007, 164, 177-190.	1.3	6,559
117	LTP-like changes induced by paired associative stimulation of the primary somatosensory cortex in humans: source analysis and associated changes in behaviour. <i>European Journal of Neuroscience</i> , 2007, 25, 2862-2874.	1.2	58
118	Population Activity in the Human Dorsal Pathway Predicts the Accuracy of Visual Motion Detection. <i>Journal of Neurophysiology</i> , 2007, 98, 345-359.	0.9	141
119	Localizing human visual gamma-band activity in frequency, time and space. <i>NeuroImage</i> , 2006, 29, 764-773.	2.1	439
120	Cortical responses to contextual influences in amodal completion. <i>NeuroImage</i> , 2006, 32, 1815-1825.	2.1	19
121	Successful declarative memory formation is associated with ongoing activity during encoding in a distributed neocortical network related to working memory: A magnetoencephalography study. <i>Neuroscience</i> , 2006, 139, 291-297.	1.1	35
122	Topographical Characteristics of Motor Units of the Lower Facial Musculature Revealed by Means of High-Density Surface EMG. <i>Journal of Neurophysiology</i> , 2006, 95, 342-354.	0.9	79
123	Tactile Spatial Attention Enhances Gamma-Band Activity in Somatosensory Cortex and Reduces Low-Frequency Activity in Parieto-Occipital Areas. <i>Journal of Neuroscience</i> , 2006, 26, 490-501.	1.7	417
124	Theta and Gamma Oscillations Predict Encoding and Retrieval of Declarative Memory. <i>Journal of Neuroscience</i> , 2006, 26, 7523-7531.	1.7	583
125	Neurophysiology of Implicit Timing in Serial Choice Reaction-Time Performance. <i>Journal of Neuroscience</i> , 2006, 26, 5448-5455.	1.7	182
126	Investigating neurophysiological correlates of metacontrast masking with magnetoencephalography. <i>Advances in Cognitive Psychology</i> , 2006, 2, 21-35.	0.2	31



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127	A comparative study of different references for EEG spectral mapping: the issue of the neutral reference and the use of the infinity reference. <i>Physiological Measurement</i> , 2005, 26, 173-184.	1.2	182
128	Neuronal Coherence as a Mechanism of Effective Corticospinal Interaction. <i>Science</i> , 2005, 308, 111-113.	6.0	460
129	Attention and movement-related motor cortex activation: a high-density EEG study of spatial stimulus-response compatibility. <i>Cognitive Brain Research</i> , 2003, 16, 309-322.	3.3	70
130	Brain symmetry and topographic analysis of lateralized event-related potentials. <i>Clinical Neurophysiology</i> , 2003, 114, 1194-1202.	0.7	144
131	Proprioception-Related Evoked Potentials: Origin and Sensitivity to Movement Parameters. <i>NeuroImage</i> , 2002, 17, 461-468.	2.1	48
132	Spatial summation of pain processing in the human brain as assessed by cerebral event related potentials. <i>Neuroscience Letters</i> , 2002, 328, 190-194.	1.0	29
133	Validating the boundary element method for forward and inverse EEG computations in the presence of a hole in the skull. <i>Human Brain Mapping</i> , 2002, 17, 179-192.	1.9	304
134	Interaction of spatial-attentional and movement-related motor cortex activation in lateralized event-related brain potentials. <i>NeuroImage</i> , 2001, 13, 342.	2.1	0
135	The five percent electrode system for high-resolution EEG and ERP measurements. <i>Clinical Neurophysiology</i> , 2001, 112, 713-719.	0.7	1,531
136	Overlap of attention and movement-related activity in lateralized event-related brain potentials. <i>Clinical Neurophysiology</i> , 2001, 112, 477-484.	0.7	61
137	Magnetic stimulation-induced modulations of motor unit firings extracted from multi-channel surface EMG. <i>Muscle and Nerve</i> , 2000, 23, 1005-1015.	1.0	60
138	Increased auditory cortical representation in musicians. <i>Nature</i> , 1998, 392, 811-814.	13.7	727