Petra Ritter

List of Publications by Year
in descending order

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78	5,685	101384	95083
papers	citations	36 h-index	68 g-index

99	99	99	5617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Correlates of alpha rhythm in functional magnetic resonance imaging and near infrared spectroscopy. NeuroImage, 2003, 20, 145-158.	2.1	543
2	Rolandic alpha and beta EEG rhythms' strengths are inversely related to fMRIâ€BOLD signal in primary somatosensory and motor cortex. Human Brain Mapping, 2009, 30, 1168-1187.	1.9	361
3	The dynamics of resting fluctuations in the brain: metastability and its dynamical cortical core. Scientific Reports, 2017, 7, 3095.	1.6	356
4	Biophysical Mechanisms of Multistability in Resting-State Cortical Rhythms. Journal of Neuroscience, 2011, 31, 6353-6361.	1.7	252
5	Near-infrared spectroscopy: does it function in functional activation studies of the adult brain?. International Journal of Psychophysiology, 2000, 35, 125-142.	0.5	239
6	Simultaneous EEGâ€“fMRI. Neuroscience and Biobehavioral Reviews, 2006, 30, 823-838.	2.9	232
7	The Virtual Brain Integrates Computational Modeling and Multimodal Neuroimaging. Brain Connectivity, 2013, 3, 121-145.	0.8	218
8	Dynamic functional connectivity reveals altered variability in functional connectivity among patients with major depressive disorder. Human Brain Mapping, 2016, 37, 2918-2930.	1.9	186
9	Bistability and Non-Gaussian Fluctuations in Spontaneous Cortical Activity. Journal of Neuroscience, 2009, 29, 8512-8524.	1.7	161
10	A Canonical Model of Multistability and Scale-Invariance in Biological Systems. PLoS Computational Biology, 2012, 8, e1002634.	1.5	154
11	Estimation of Directed Effective Connectivity from fMRI Functional Connectivity Hints at Asymmetries of Cortical Connectome. PLoS Computational Biology, 2016, 12, e1004762.	1.5	137
12	Inferring multi-scale neural mechanisms with brain network modelling. ELife, 2018, 7, .	2.8	137
13	An automated pipeline for constructing personalized virtual brains from multimodal neuroimaging data. NeuroImage, 2015, 117, 343-357.	2.1	132
14	How Ongoing Neuronal Oscillations Account for Evoked fMRI Variability. Journal of Neuroscience, 2011, 31, 11016-11027.	1.7	131
15	Spatial Attention Related SEP Amplitude Modulations Covary with BOLD Signal in S1â€”A Simultaneous EEGâ€”fMRI Study. Cerebral Cortex, 2008, 18, 2686-2700.	1.6	118
16	Linear Aspects of Changes in Deoxygenated Hemoglobin Concentration and Cytochrome Oxidase Oxidation during Brain Activation. NeuroImage, 2001, 13, 520-530.	2.1	107
17	State-dependencies of learning across brain scales. Frontiers in Computational Neuroscience, 2015, 9, 1.	1.2	104
18	How do parcellation size and short-range connectivity affect dynamics in large-scale brain network models?. NeuroImage, 2016, 142, 135-149.	2.1	103

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19	The Rediscovery of Slowness: Exploring the Timing of Cognition. Trends in Cognitive Sciences, 2015, 19, 616-628.	4.0	98
20	Structural architecture supports functional organization in the human aging brain at a regionwise and network level. Human Brain Mapping, 2016, 37, 2645-2661.	1.9	88
21	Imperceptible Stimuli and Sensory Processing Impediment. Science, 2003, 299, 1864-1864.	6.0	86
22	Linking Molecular Pathways and Large-Scale Computational Modeling to Assess Candidate Disease Mechanisms and Pharmacodynamics in Alzheimer's Disease. Frontiers in Computational Neuroscience, 2019, 13, 54.	1.2	83
23	Influence of ongoing alpha rhythm on the visual evoked potential. NeuroImage, 2008, 39, 707-716.	2.1	82
24	Visual evoked potentials recovered from fMRI scan periods. Human Brain Mapping, 2005, 26, 221-230.	1.9	73
25	Evaluating gradient artifact correction of EEG data acquired simultaneously with fMRI. Magnetic Resonance Imaging, 2007, 25, 923-932.	1.0	69
26	Differentiation of Alzheimer's disease based on local and global parameters in personalized Virtual Brain models. NeuroImage: Clinical, 2018, 19, 240-251.	1.4	69
27	Saccadic Suppression Induces Focal Hypooxygenation in the Occipital Cortex. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1103-1110.	2.4	67
28	Dynamic Functional Connectivity between order and randomness and its evolution across the human adult lifespan. NeuroImage, 2020, 222, 117156.	2.1	67
29	â€˜My Virtual Dreamâ€™: Collective Neurofeedback in an Immersive Art Environment. PLoS ONE, 2015, 10, e0130129.	1.1	65
30	Ultrahigh-frequency EEG during fMRI: Pushing the limits of imaging-artifact correction. NeuroImage, 2009, 48, 94-108.	2.1	64
31	Measures of resting state EEG rhythms for clinical trials in Alzheimer's disease: Recommendations of an expert panel. Alzheimer's and Dementia, 2021, 17, 1528-1553.	0.4	64
32	The role of alpha-rhythm states in perceptual learning: insights from experiments and computational models. Frontiers in Computational Neuroscience, 2014, 8, 36.	1.2	56
33	A macaque connectome for large-scale network simulations in TheVirtualBrain. Scientific Data, 2019, 6, 123.	2.4	56
34	State-Dependent Perceptual Learning. Journal of Neuroscience, 2013, 33, 2900-2907.	1.7	54
35	Repetitive tactile stimulation changes resting-state functional connectivityâ€”implications for treatment of sensorimotor decline. Frontiers in Human Neuroscience, 2012, 6, 144.	1.0	52
36	Using the Virtual Brain to Reveal the Role of Oscillations and Plasticity in Shaping Brain's Dynamical Landscape. Brain Connectivity, 2014, 4, 791-811.	0.8	47

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37	Relating Alpha Power and Phase to Population Firing and Hemodynamic Activity Using a Thalamo-cortical Neural Mass Model. PLoS Computational Biology, 2015, 11, e1004352.	1.5	46
38	Modeling Brain Dynamics in Brain Tumor Patients Using the Virtual Brain. ENeuro, 2018, 5, ENEURO.0083-18.2018.	0.9	42
39	Brain simulation as a cloud service: The Virtual Brain on EBRAINS. NeuroImage, 2022, 251, 118973.	2.1	42
40	Modeling brain dynamics after tumor resection using The Virtual Brain. NeuroImage, 2020, 213, 116738.	2.1	41
41	Analytical Operations Relate Structural and Functional Connectivity in the Brain. PLoS ONE, 2016, 11, e0157292.	1.1	41
42	High-frequency (600ÂHz) population spikes in human EEG delineate thalamic and cortical fMRI activation sites. NeuroImage, 2008, 42, 483-490.	2.1	40
43	Are unimanual movements bilateral?. Neuroscience and Biobehavioral Reviews, 2020, 113, 39-50.	2.9	35
44	Oscillatory brain states interact with late cognitive components of the somatosensory evoked potential. Journal of Neuroscience Methods, 2009, 183, 49-56.	1.3	34
45	Detecting alpha rhythm phase reset by phase sorting: Caveats to consider. NeuroImage, 2009, 47, 1-4.	2.1	33
46	Resting state networks in empirical and simulated dynamic functional connectivity. NeuroImage, 2017, 159, 388-402.	2.1	33
47	Virtual deep brain stimulation: Multiscale co-simulation of a spiking basal ganglia model and a whole-brain mean-field model with The Virtual Brain. Experimental Neurology, 2022, 354, 114111.	2.0	27
48	Mapping complementary features of crossâ€spècies structural connectivity to construct realistic â€œVirtual Brainsâ€• Human Brain Mapping, 2017, 38, 2080-2093.	1.9	22
49	Bridging Scales in Alzheimer's Disease: Biological Framework for Brain Simulation With The Virtual Brain. Frontiers in Neuroinformatics, 2021, 15, 630172.	1.3	20
50	Background and evoked activity and their interaction in the human brain. Magnetic Resonance Imaging, 2009, 27, 1140-1150.	1.0	19
51	Exploiting the potential of three dimensional spatial wavelet analysis to explore nesting of temporal oscillations and spatial variance in simultaneous EEG-fMRI data. Progress in Biophysics and Molecular Biology, 2011, 105, 67-79.	1.4	18
52	Dynamic primitives of brain network interaction. NeuroImage, 2022, 250, 118928.	2.1	18
53	Stereotypical modulations in dynamic functional connectivity explained by changes in BOLD variance. NeuroImage, 2018, 171, 40-54.	2.1	14
54	The Importance of Cerebellar Connectivity on Simulated Brain Dynamics. Frontiers in Cellular Neuroscience, 2020, 14, 240.	1.8	14

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55	Virtual connectomic datasets in Alzheimerâ€™s Disease and aging using whole-brain network dynamics modelling. ENeuro, 2021, 8, ENEURO.0475-20.2021.	0.9	14
56	Inhibition and functional magnetic resonance imaging. International Congress Series, 2002, 1235, 213-222.	0.2	11
57	Movement disorders after hypoxic brain injury following cardiac arrest in adults. European Journal of Neurology, 2020, 27, 1937-1947.	1.7	10
58	EEG Quality:The Image Acquisition Artefact. , 2009, , 153-171.		10
59	Multiregional integration in the brain during resting-state fMRI activity. PLoS Computational Biology, 2017, 13, e1005410.	1.5	10
60	Brain simulation augments machineâ€learningâ€“based classification of dementia. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2022, 8, .	1.8	10
61	Editorial: State-dependent brain computation. Frontiers in Computational Neuroscience, 2015, 9, 77.	1.2	9
62	The Importance of Standards for Sharing of Computational Models and Data. Computational Brain & Behavior, 2019, 2, 229-232.	0.9	9
63	EEG measures for clinical research in major vascular cognitive impairment: recommendations by an expert panel. Neurobiology of Aging, 2021, 103, 78-97.	1.5	9
64	Linking connectomics and dynamics in the human brain. E-Neuroforum, 2016, 7, 64-70.	0.2	8
65	Complexity Matching: Brain Signals Mirror Environment Information Patterns during Music Listening and Reward. Journal of Cognitive Neuroscience, 2020, 32, 734-745.	1.1	8
66	BrainModes: The role of neuronal oscillations in health and disease. Progress in Biophysics and Molecular Biology, 2011, 105, 1-4.	1.4	7
67	TVB-EduPackâ€”An Interactive Learning and Scripting Platform for The Virtual Brain. Frontiers in Neuroinformatics, 2015, 9, 27.	1.3	7
68	NFDI-Neuro: building a community for neuroscience research data management in Germany. Neuroforum, 2021, .	0.2	6
69	Personalized Connectome-Based Modeling in Patients with Semi-Acute Phase TBI: Relationship to Acute Neuroimaging and 6 Month Follow-Up. ENeuro, 2022, 9, ENEURO.0075-21.2022.	0.9	6
70	Neurological Biomarkers and Neuroinformatics. , 2018, , 3-30.		5
71	Brain Network Simulations Indicate Effects of Neuregulin-1 Genotype on Excitation-Inhibition Balance in Cortical Dynamics. Cerebral Cortex, 2021, 31, 2013-2025.	1.6	4
72	BrainModes: A principled approach to modeling and measuring large-scale neuronal activity. Journal of Neuroscience Methods, 2009, 183, 1-4.	1.3	3

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73	Linking connectomics and dynamics in the human brain. E-Neuroforum, 2016, 22, .	0.2	2
74	Research data management in clinical neuroscience: the national research data infrastructure initiative. Neuroforum, 2021, .	0.2	2
75	Unimanual sensorimotor learningâ€"A simultaneous <scp>EEGâ€fMRI</scp> aging study. Human Brain Mapping, 2022, 43, 2348-2364.	1.9	2
76	Investigating the Effect of the Neuregulin-1 Genotype on Brain Function Using Brain Network Simulations. Biological Psychiatry, 2020, 87, S38.	0.7	1
77	Visual System. , 2009, , 401-417.		1
78	Recovery of directed intracortical connectivity from fMRI data. AIP Conference Proceedings, 2016, , .	0.3	0