Jakob Heinzle

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54 papers	2,174 citations	21 h-index	46 g-index
64 ext. papers	2,755 ext. citations	5.6 avg, IF	5.07 L-index

#	Paper	IF	Citations
54	Connectivity-based parcellation of the human orbitofrontal cortex. *Journal of Neuroscience*, **2012**, 32, 6240-50	6.6	209
53	The neural code of reward anticipation in human orbitofrontal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6010-5	11.5	206
52	Flow of affective information between communicating brains. *NeuroImage*, **2011**, 54, 439-46	7.9	203
51	Imagery and perception share cortical representations of content and location. *Cerebral Cortex*, **2012**, 22, 372-80	5.1	139
50	The PhysIO Toolbox for Modeling Physiological Noise in fMRI Data. *Journal of Neuroscience Methods*, **2017**, 276, 56-72	3	135
49	Multivariate information-theoretic measures reveal directed information structure and task relevant changes in fMRI connectivity. *Journal of Computational Neuroscience*, **2011**, 30, 85-107	1.4	126
48	Translational Perspectives for Computational Neuroimaging. *Neuron*, **2015**, 87, 716-32	13.9	117
47	Decoding different roles for vmPFC and dlPFC in multi-attribute decision making. *NeuroImage*, **2011**, 56, 709-15	7.9	107
46	Dynamic causal modelling revisited. *NeuroImage*, **2019**, 199, 730-744	7.9	97
45	A hemodynamic model for layered BOLD signals. *NeuroImage*, **2016**, 125, 556-570	7.9	88
44	Impaired slow wave sleep downscaling in encephalopathy with status epilepticus during sleep (ESES). *Clinical Neurophysiology*, **2011**, 122, 1779-87	4.3	86
43	Medial prefrontal cortex predicts internally driven strategy shifts. *Neuron*, **2015**, 86, 331-40	13.9	74
42	Topographically specific functional connectivity between visual field maps in the human brain. *NeuroImage*, **2011**, 56, 1426-36	7.9	74
41	A microcircuit model of the frontal eye fields. *Journal of Neuroscience*, **2007**, 27, 9341-53	6.6	64
40	Cortical surface-based searchlight decoding. *NeuroImage*, **2011**, 56, 582-92	7.9	56
39	Decoding the formation of reward predictions across learning. *Journal of Neuroscience*, **2011**, 31, 14624-30	6.6	48
38	Visual Mismatch and Predictive Coding: A Computational Single-Trial ERP Study. *Journal of Neuroscience*, **2018**, 38, 4020-4030	6.6	44

37	Species Recognition Influences Female Mate Preferences in the Common European Grasshopper (Chorthippus biguttulus Linnaeus, 1758). *Ethology*, **2006**, 112, 1225-1230	1.7	35
36	Visuomotor functional network topology predicts upcoming tasks. *Journal of Neuroscience*, **2012**, 32, 9960-8	6.6	28
35	Probing principles of large-scale object representation: category preference and location encoding. *Human Brain Mapping*, **2013**, 34, 1636-51	5.9	26
34	mpdcm: A toolbox for massively parallel dynamic causal modeling. *Journal of Neuroscience Methods*, **2016**, 257, 7-16	3	25
33	Modulation of synchrony without changes in firing rates. *Cognitive Neurodynamics*, **2007**, 1, 225-35	4.2	19
32	Generative models for clinical applications in computational psychiatry. *Wiley Interdisciplinary Reviews: Cognitive Science*, **2018**, 9, e1460	4.5	17
31	The Stochastic Early Reaction, Inhibition, and late Action (SERIA) model for antisaccades. *PLoS Computational Biology*, **2017**, 13, e1005692	5	15
30	A biologically realistic cortical model of eye movement control in reading. *Psychological Review*, **2010**, 117, 808-30	6.3	15
29	Computational models of eye movements and their application to schizophrenia. *Current Opinion in Behavioral Sciences*, **2016**, 11, 21-29	4	14
28	TAPAS: An Open-Source Software Package for Translational Neuromodeling and Computational Psychiatry. *Frontiers in Psychiatry*, **2021**, 12, 680811	5	13
27	Learning What to See in a Changing World. *Frontiers in Human Neuroscience*, **2016**, 10, 263	3.3	12
26	Regression dynamic causal modeling for resting-state fMRI. *Human Brain Mapping*, **2021**, 42, 2159-2180	5.9	12
25	Predictive brain signals best predict upcoming and not previous choices. *Frontiers in Psychology*, **2014**, 5, 406	3.4	9
24	Feature-specific prediction errors for visual mismatch. *NeuroImage*, **2019**, 196, 142-151	7.9	8
23	Timing of repetition suppression of event-related potentials to unattended objects. *European Journal of Neuroscience*, **2020**, 52, 4432-4441	3.5	7
22	Beyond topographic representation: Decoding visuospatial attention from local activity patterns in the human frontal cortex. *International Journal of Imaging Systems and Technology*, **2011**, 21, 201-210	2.5	6
21	Inhibition failures and late errors in the antisaccade task: influence of cue delay. *Journal of Neurophysiology*, **2018**, 120, 3001-3016	3.2	5
20	Switch costs in inhibitory control and voluntary behaviour: A computational study of the antisaccade task. *European Journal of Neuroscience*, **2019**, 50, 3205-3220	3.5	4

19	Regression dynamic causal modeling for resting-state fMRI		4
18	Dynamic Causal Modeling and Its Application to Psychiatric Disorders **2018**, 117-144		3
17	Information flow, dynamical systems theory and the human brain: Comment on "Information flow dynamics in the brain" by M.I. Rabinovich et al. *Physics of Life Reviews*, **2012**, 9, 78-9; discussion 80-3	2.1	3
16	Advances in spiral fMRI: A high-resolution study with single-shot acquisition. *NeuroImage*, **2021**, 246, 118738	7.9	3
15	Advances in Spiral fMRI: A High-resolution Study with Single-shot Acquisition		3
14	Computational Dissociation of Dopaminergic and Cholinergic Effects on Action Selection and Inhibitory Control. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2020**, 5, 364-372	3.4	3
13	A Hilbert-based method for processing respiratory timeseries. *NeuroImage*, **2021**, 230, 117787	7.9	3
12	Model-based prediction of muscarinic receptor function from auditory mismatch negativity responses. *NeuroImage*, **2021**, 237, 118096	7.9	2
11	Spatiotemporal information transfer pattern differences in motor selection. *BMC Neuroscience*, **2011**, 12,	3.2	1
10	Hemodynamic modeling of aspirin effects on BOLD responses at 7T		1
9	Model-based prediction of muscarinic receptor function from auditory mismatch negativity responses		1
8	A Hilbert-based method for processing respiratory timeseries		1
7	An introduction to thermodynamic integration and application to dynamic causal models		1
6	Switch costs in inhibitory control and voluntary behavior: A computational study of the antisaccade task		1
5	Conductance-based dynamic causal modeling: A mathematical review of its application to cross-power spectral densities. *NeuroImage*, **2021**, 245, 118662	7.9	0
4	Technical note: A fast and robust integrator of delay differential equations in DCM for electrophysiological data. *NeuroImage*, **2021**, 244, 118567	7.9	0
3	Hemodynamic modeling of long-term aspirin effects on blood oxygenated level dependent responses at 7 Tesla in patients at cardiovascular risk. *European Journal of Neuroscience*, **2021**, 53, 1262-1278	3.5	
2	An introduction to thermodynamic integration and application to dynamic causal models.. *Cognitive Neurodynamics*, **2022**, 16, 1-15	4.2	

List of Publications

1 Advances in spiral fMRI: A high-resolution dataset.. *Data in Brief*, **2022**, 42, 108050 1.2