

# Jakob Heinzle

## List of Publications by Year in Descending Order

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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	An introduction to thermodynamic integration and application to dynamic causal models.. <i>Cognitive Neurodynamics</i> , <b>2022</b> , 16, 1-15	4.2	
53	Advances in spiral fMRI: A high-resolution dataset.. <i>Data in Brief</i> , <b>2022</b> , 42, 108050	1.2	
52	Advances in spiral fMRI: A high-resolution study with single-shot acquisition. <i>NeuroImage</i> , <b>2021</b> , 246, 118738	7.9	3
51	Conductance-based dynamic causal modeling: A mathematical review of its application to cross-power spectral densities. <i>NeuroImage</i> , <b>2021</b> , 245, 118662	7.9	0
50	A Hilbert-based method for processing respiratory timeseries. <i>NeuroImage</i> , <b>2021</b> , 230, 117787	7.9	3
49	TAPAS: An Open-Source Software Package for Translational Neuromodeling and Computational Psychiatry. <i>Frontiers in Psychiatry</i> , <b>2021</b> , 12, 680811	5	13
48	Hemodynamic modeling of long-term aspirin effects on blood oxygenated level dependent responses at 7 Tesla in patients at cardiovascular risk. <i>European Journal of Neuroscience</i> , <b>2021</b> , 53, 1262-1278	3.5	2
47	Regression dynamic causal modeling for resting-state fMRI. <i>Human Brain Mapping</i> , <b>2021</b> , 42, 2159-2180	5.9	12
46	Model-based prediction of muscarinic receptor function from auditory mismatch negativity responses. <i>NeuroImage</i> , <b>2021</b> , 237, 118096	7.9	2
45	Technical note: A fast and robust integrator of delay differential equations in DCM for electrophysiological data. <i>NeuroImage</i> , <b>2021</b> , 244, 118567	7.9	0
44	Computational Dissociation of Dopaminergic and Cholinergic Effects on Action Selection and Inhibitory Control. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2020</b> , 5, 364-372	3.4	3
43	Timing of repetition suppression of event-related potentials to unattended objects. <i>European Journal of Neuroscience</i> , <b>2020</b> , 52, 4432-4441	3.5	7
42	Switch costs in inhibitory control and voluntary behaviour: A computational study of the antisaccade task. <i>European Journal of Neuroscience</i> , <b>2019</b> , 50, 3205-3220	3.5	4
41	Feature-specific prediction errors for visual mismatch. <i>NeuroImage</i> , <b>2019</b> , 196, 142-151	7.9	8
40	Dynamic causal modelling revisited. <i>NeuroImage</i> , <b>2019</b> , 199, 730-744	7.9	97
39	Generative models for clinical applications in computational psychiatry. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , <b>2018</b> , 9, e1460	4.5	17
38	Dynamic Causal Modeling and Its Application to Psychiatric Disorders <b>2018</b> , 117-144		3

37	Visual Mismatch and Predictive Coding: A Computational Single-Trial ERP Study. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 4020-4030	6.6	44
36	Inhibition failures and late errors in the antisaccade task: influence of cue delay. <i>Journal of Neurophysiology</i> , <b>2018</b> , 120, 3001-3016	3.2	5
35	The Stochastic Early Reaction, Inhibition, and late Action (SERIA) model for antisaccades. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005692	5	15
34	The PhysIO Toolbox for Modeling Physiological Noise in fMRI Data. <i>Journal of Neuroscience Methods</i> , <b>2017</b> , 276, 56-72	3	135
33	A hemodynamic model for layered BOLD signals. <i>NeuroImage</i> , <b>2016</b> , 125, 556-570	7.9	88
32	mpdcm: A toolbox for massively parallel dynamic causal modeling. <i>Journal of Neuroscience Methods</i> , <b>2016</b> , 257, 7-16	3	25
31	Learning What to See in a Changing World. <i>Frontiers in Human Neuroscience</i> , <b>2016</b> , 10, 263	3.3	12
30	Computational models of eye movements and their application to schizophrenia. <i>Current Opinion in Behavioral Sciences</i> , <b>2016</b> , 11, 21-29	4	14
29	Medial prefrontal cortex predicts internally driven strategy shifts. <i>Neuron</i> , <b>2015</b> , 86, 331-40	13.9	74
28	Translational Perspectives for Computational Neuroimaging. <i>Neuron</i> , <b>2015</b> , 87, 716-32	13.9	117
27	Predictive brain signals best predict upcoming and not previous choices. <i>Frontiers in Psychology</i> , <b>2014</b> , 5, 406	3.4	9
26	Probing principles of large-scale object representation: category preference and location encoding. <i>Human Brain Mapping</i> , <b>2013</b> , 34, 1636-51	5.9	26
25	Information flow, dynamical systems theory and the human brain: Comment on "Information flow dynamics in the brain" by M.I. Rabinovich et al. <i>Physics of Life Reviews</i> , <b>2012</b> , 9, 78-9; discussion 80-3	2.1	3
24	Connectivity-based parcellation of the human orbitofrontal cortex. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 6240-50	6.6	209
23	Imagery and perception share cortical representations of content and location. <i>Cerebral Cortex</i> , <b>2012</b> , 22, 372-80	5.1	139
22	Visuomotor functional network topology predicts upcoming tasks. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 9960-8	6.6	28
21	Topographically specific functional connectivity between visual field maps in the human brain. <i>NeuroImage</i> , <b>2011</b> , 56, 1426-36	7.9	74
20	Decoding different roles for vmPFC and dlPFC in multi-attribute decision making. <i>NeuroImage</i> , <b>2011</b> , 56, 709-15	7.9	107

19	Flow of affective information between communicating brains. <i>NeuroImage</i> , <b>2011</b> , 54, 439-46	7.9	203
18	Cortical surface-based searchlight decoding. <i>NeuroImage</i> , <b>2011</b> , 56, 582-92	7.9	56
17	Impaired slow wave sleep downscaling in encephalopathy with status epilepticus during sleep (ESES). <i>Clinical Neurophysiology</i> , <b>2011</b> , 122, 1779-87	4.3	86
16	Multivariate information-theoretic measures reveal directed information structure and task relevant changes in fMRI connectivity. <i>Journal of Computational Neuroscience</i> , <b>2011</b> , 30, 85-107	1.4	126
15	Spatiotemporal information transfer pattern differences in motor selection. <i>BMC Neuroscience</i> , <b>2011</b> , 12,	3.2	1
14	Beyond topographic representation: Decoding visuospatial attention from local activity patterns in the human frontal cortex. <i>International Journal of Imaging Systems and Technology</i> , <b>2011</b> , 21, 201-210	2.5	6
13	Decoding the formation of reward predictions across learning. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 14624-30	3.6	48
12	The neural code of reward anticipation in human orbitofrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6010-5	11.5	206
11	A biologically realistic cortical model of eye movement control in reading. <i>Psychological Review</i> , <b>2010</b> , 117, 808-30	6.3	15
10	Modulation of synchrony without changes in firing rates. <i>Cognitive Neurodynamics</i> , <b>2007</b> , 1, 225-35	4.2	19
9	A microcircuit model of the frontal eye fields. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 9341-53	6.6	64
8	Species Recognition Influences Female Mate Preferences in the Common European Grasshopper ( <i>Chorthippus biguttulus</i> Linnaeus, 1758). <i>Ethology</i> , <b>2006</b> , 112, 1225-1230	1.7	35
7	Hemodynamic modeling of aspirin effects on BOLD responses at 7T		1
6	Model-based prediction of muscarinic receptor function from auditory mismatch negativity responses		1
5	Regression dynamic causal modeling for resting-state fMRI		4
4	A Hilbert-based method for processing respiratory timeseries		1
3	An introduction to thermodynamic integration and application to dynamic causal models		1
2	Switch costs in inhibitory control and voluntary behavior: A computational study of the antisaccade task		1

1 Advances in Spiral fMRI: A High-resolution Study with Single-shot Acquisition

3