

Klaas Enno Stephan

List of Publications by Year in descending order

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Version: 2024-02-01

216
papers

34,862
citations

4658

85
h-index

4432

172
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258
all docs

258
docs citations

258
times ranked

24622
citing authors

#	ARTICLE	IF	CITATIONS
1	A new SPM toolbox for combining probabilistic cytoarchitectonic maps and functional imaging data. <i>NeuroImage</i> , 2005, 25, 1325-1335.	4.2	3,746
2	Empathic neural responses are modulated by the perceived fairness of others. <i>Nature</i> , 2006, 439, 466-469.	27.8	1,470
3	Bayesian model selection for group studies. <i>NeuroImage</i> , 2009, 46, 1004-1017.	4.2	1,253
4	The mismatch negativity: A review of underlying mechanisms. <i>Clinical Neurophysiology</i> , 2009, 120, 453-463.	1.5	1,109
5	Dysconnection in Schizophrenia: From Abnormal Synaptic Plasticity to Failures of Self-monitoring. <i>Schizophrenia Bulletin</i> , 2009, 35, 509-527.	4.3	1,021
6	The anatomical basis of functional localization in the cortex. <i>Nature Reviews Neuroscience</i> , 2002, 3, 606-616.	10.2	956
7	Comparing dynamic causal models. <i>NeuroImage</i> , 2004, 22, 1157-1172.	4.2	809
8	The Balanced Accuracy and Its Posterior Distribution. , 2010, , .		784
9	Synaptic Plasticity and Dysconnection in Schizophrenia. <i>Biological Psychiatry</i> , 2006, 59, 929-939.	1.3	755
10	Ten simple rules for dynamic causal modeling. <i>NeuroImage</i> , 2010, 49, 3099-3109.	4.2	712
11	The Computational Anatomy of Psychosis. <i>Frontiers in Psychiatry</i> , 2013, 4, 47.	2.6	608
12	Comparing Families of Dynamic Causal Models. <i>PLoS Computational Biology</i> , 2010, 6, e1000709.	3.2	606
13	Interoception and Mental Health: A Roadmap. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 501-513.	1.5	524
14	Free-energy and the brain. <i>Synthese</i> , 2007, 159, 417-458.	1.1	517
15	Bayesian model selection for group studies “Revisited”. <i>NeuroImage</i> , 2014, 84, 971-985.	4.2	490
16	Bayesian model reduction and empirical Bayes for group (DCM) studies. <i>NeuroImage</i> , 2016, 128, 413-431.	4.2	475
17	Context-Dependent Human Extinction Memory Is Mediated by a Ventromedial Prefrontal and Hippocampal Network. <i>Journal of Neuroscience</i> , 2006, 26, 9503-9511.	3.6	464
18	A Bayesian foundation for individual learning under uncertainty. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 39.	2.0	460

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19	Comparing hemodynamic models with DCM. NeuroImage, 2007, 38, 387-401.	4.2	449
20	The dysconnection hypothesis (2016). Schizophrenia Research, 2016, 176, 83-94.	2.0	426
21	Computational psychiatry: the brain as a phantastic organ. Lancet Psychiatry,the, 2014, 1, 148-158.	7.4	398
22	The functional anatomy of the MMN: A DCM study of the roving paradigm. NeuroImage, 2008, 42, 936-944.	4.2	392
23	Nonlinear dynamic causal models for fMRI. NeuroImage, 2008, 42, 649-662.	4.2	374
24	Striatal Prediction Error Modulates Cortical Coupling. Journal of Neuroscience, 2010, 30, 3210-3219.	3.6	294
25	Lateralized Cognitive Processes and Lateralized Task Control in the Human Brain. Science, 2003, 301, 384-386.	12.6	293
26	The PhysIO Toolbox for Modeling Physiological Noise in fMRI Data. Journal of Neuroscience Methods, 2017, 276, 56-72.	2.5	289
27	Dopamine, Affordance and Active Inference. PLoS Computational Biology, 2012, 8, e1002327.	3.2	288
28	Uncertainty in perception and the Hierarchical Gaussian Filter. Frontiers in Human Neuroscience, 2014, 8, 825.	2.0	286
29	Hierarchical Prediction Errors in Midbrain and Basal Forebrain during Sensory Learning. Neuron, 2013, 80, 519-530.	8.1	285
30	Attention to action in Parkinson's disease. Brain, 2002, 125, 276-289.	7.6	283
31	Anterolateral Prefrontal Cortex Mediates the Analgesic Effect of Expected and Perceived Control over Pain. Journal of Neuroscience, 2006, 26, 11501-11509.	3.6	276
32	A Dual Role for Prediction Error in Associative Learning. Cerebral Cortex, 2009, 19, 1175-1185.	2.9	273
33	Allostatic Self-efficacy: A Metacognitive Theory of Dyshomeostasis-Induced Fatigue and Depression. Frontiers in Human Neuroscience, 2016, 10, 550.	2.0	256
34	Free Energy, Precision and Learning: The Role of Cholinergic Neuromodulation. Journal of Neuroscience, 2013, 33, 8227-8236.	3.6	252
35	Network discovery with DCM. NeuroImage, 2011, 56, 1202-1221.	4.2	248
36	Do patients with schizophrenia exhibit aberrant salience?. Psychological Medicine, 2009, 39, 199-209.	4.5	237

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37	Computational analysis of functional connectivity between areas of primate cerebral cortex. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 111-126.	4.0	234
38	A Bayesian perspective on magnitude estimation. Trends in Cognitive Sciences, 2015, 19, 285-293.	7.8	229
39	Task and Content Modulate Amygdala-Hippocampal Connectivity in Emotional Retrieval. Neuron, 2006, 49, 631-638.	8.1	220
40	Dynamic causal modelling of evoked potentials: A reproducibility study. NeuroImage, 2007, 36, 571-580.	4.2	205
41	Computational approaches to psychiatry. Current Opinion in Neurobiology, 2014, 25, 85-92.	4.2	203
42	Dynamic causal models of neural system dynamics: current state and future extensions. Journal of Biosciences, 2007, 32, 129-144.	1.1	201
43	Mixed-effects and fMRI studies. NeuroImage, 2005, 24, 244-252.	4.2	200
44	Repetition suppression and plasticity in the human brain. NeuroImage, 2009, 48, 269-279.	4.2	192
45	Pathophysiological and cognitive mechanisms of fatigue in multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 642-651.	1.9	186
46	A neural mass model of spectral responses in electrophysiology. NeuroImage, 2007, 37, 706-720.	4.2	185
47	Parieto-Frontal Connectivity during Visually Guided Grasping. Journal of Neuroscience, 2007, 27, 11877-11887.	3.6	182
48	Dynamic causal models of steady-state responses. NeuroImage, 2009, 44, 796-811.	4.2	177
49	Generalised filtering and stochastic DCM for fMRI. NeuroImage, 2011, 58, 442-457.	4.2	177
50	Decoding the perception of pain from fMRI using multivariate pattern analysis. NeuroImage, 2012, 63, 1162-1170.	4.2	177
51	Initial Demonstration of in Vivo Tracing of Axonal Projections in the Macaque Brain and Comparison with the Human Brain Using Diffusion Tensor Imaging and Fast Marching Tractography. NeuroImage, 2002, 15, 797-809.	4.2	171
52	Analyzing effective connectivity with functional magnetic resonance imaging. Wiley Interdisciplinary Reviews: Cognitive Science, 2010, 1, 446-459.	2.8	154
53	Translational Perspectives for Computational Neuroimaging. Neuron, 2015, 87, 716-732.	8.1	154
54	Stratified medicine for mental disorders. European Neuropsychopharmacology, 2014, 24, 5-50.	0.7	152

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55	Spatial Attention, Precision, and Bayesian Inference: A Study of Saccadic Response Speed. Cerebral Cortex, 2014, 24, 1436-1450.	2.9	151
56	Dissecting psychiatric spectrum disorders by generative embedding. NeuroImage: Clinical, 2014, 4, 98-111.	2.7	150
57	Modulation of pain processing in hyperalgesia by cognitive demand. NeuroImage, 2005, 27, 59-69.	4.2	147
58	Neurophysiological correlates of relatively enhanced local visual search in autistic adolescents. NeuroImage, 2007, 35, 283-291.	4.2	145
59	Generative Embedding for Model-Based Classification of fMRI Data. PLoS Computational Biology, 2011, 7, e1002079.	3.2	145
60	Computational neuroimaging strategies for single patient predictions. NeuroImage, 2017, 145, 180-199.	4.2	144
61	Interhemispheric Integration of Visual Processing during Task-Driven Lateralization. Journal of Neuroscience, 2007, 27, 3512-3522.	3.6	143
62	Charting the landscape of priority problems in psychiatry, part 1: classification and diagnosis. Lancet Psychiatry, 2016, 3, 77-83.	7.4	143
63	Changes of Cortico-striatal Effective Connectivity during Visuomotor Learning. Cerebral Cortex, 2002, 12, 1040-1047.	2.9	141
64	Tractography-based priors for dynamic causal models. NeuroImage, 2009, 47, 1628-1638.	4.2	137
65	Modelling Trial-by-Trial Changes in the Mismatch Negativity. PLoS Computational Biology, 2013, 9, e1002911.	3.2	137
66	On the role of general system theory for functional neuroimaging. Journal of Anatomy, 2004, 205, 443-470.	1.5	136
67	Inferring on the Intentions of Others by Hierarchical Bayesian Learning. PLoS Computational Biology, 2014, 10, e1003810.	3.2	134
68	Computational Psychosomatics and Computational Psychiatry: Toward a Joint Framework for Differential Diagnosis. Biological Psychiatry, 2017, 82, 421-430.	1.3	131
69	Observing the Observer (I): Meta-Bayesian Models of Learning and Decision-Making. PLoS ONE, 2010, 5, e15554.	2.5	130
70	Focus of attention modulates the heartbeat evoked potential. NeuroImage, 2019, 186, 595-606.	4.2	130
71	A hemodynamic model for layered BOLD signals. NeuroImage, 2016, 125, 556-570.	4.2	128
72	An InVivo Assay of Synaptic Function Mediating Human Cognition. Current Biology, 2011, 21, 1320-1325.	3.9	124

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73	Regression DCM for fMRI. <i>NeuroImage</i> , 2017, 155, 406-421.	4.2	124
74	Bayesian estimation of synaptic physiology from the spectral responses of neural masses. <i>NeuroImage</i> , 2008, 42, 272-284.	4.2	122
75	DCM for complex-valued data: Cross-spectra, coherence and phase-delays. <i>NeuroImage</i> , 2012, 59, 439-455.	4.2	120
76	The Cortical Dynamics of Intelligible Speech. <i>Journal of Neuroscience</i> , 2008, 28, 13209-13215.	3.6	116
77	The Prefrontal Cortex shows Context-specific Changes in Effective Connectivity to Motor or Visual Cortex during the Selection of Action or Colour. <i>Cerebral Cortex</i> , 2004, 15, 85-95.	2.9	114
78	Effective connectivity of the left BA 44, BA 45, and inferior temporal gyrus during lexical and phonological decisions identified with DCM. <i>Human Brain Mapping</i> , 2009, 30, 392-402.	3.6	113
79	Hierarchical Processing of Auditory Objects in Humans. <i>PLoS Computational Biology</i> , 2007, 3, e100.	3.2	107
80	Neural Coding of Tactile Decisions in the Human Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 12596-12601.	3.6	105
81	Yearning to yawn: the neural basis of contagious yawning. <i>NeuroImage</i> , 2005, 24, 1260-1264.	4.2	104
82	Hierarchical prediction errors in midbrain and septum during social learning. <i>Social Cognitive and Affective Neuroscience</i> , 2017, 12, 618-634.	3.0	103
83	Can Bayesian Theories of Autism Spectrum Disorder Help Improve Clinical Practice?. <i>Frontiers in Psychiatry</i> , 2016, 7, 107.	2.6	101
84	Nicotinic modulation of human auditory sensory memory: Evidence from mismatch negativity potentials. <i>International Journal of Psychophysiology</i> , 2006, 59, 49-58.	1.0	100
85	Biophysical models of fMRI responses. <i>Current Opinion in Neurobiology</i> , 2004, 14, 629-635.	4.2	99
86	Stochastic dynamic causal modelling of fMRI data: Should we care about neural noise?. <i>NeuroImage</i> , 2012, 62, 464-481.	4.2	98
87	Forward and backward connections in the brain: A DCM study of functional asymmetries. <i>NeuroImage</i> , 2009, 45, 453-462.	4.2	96
88	Mismatch Negativity Encoding of Prediction Errors Predicts S-ketamine-Induced Cognitive Impairments. <i>Neuropsychopharmacology</i> , 2012, 37, 865-875.	5.4	96
89	A short history of causal modeling of fMRI data. <i>NeuroImage</i> , 2012, 62, 856-863.	4.2	96
90	A Neurocomputational Model of the Mismatch Negativity. <i>PLoS Computational Biology</i> , 2013, 9, e1003288.	3.2	96

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91	Brain Connectivity Abnormalities Predating the Onset of Psychosis. JAMA Psychiatry, 2013, 70, 903.	11.0	94
92	Modeling Ketamine Effects on Synaptic Plasticity During the Mismatch Negativity. Cerebral Cortex, 2013, 23, 2394-2406.	2.9	93
93	Cortical Coupling Reflects Bayesian Belief Updating in the Deployment of Spatial Attention. Journal of Neuroscience, 2015, 35, 11532-11542.	3.6	92
94	Contextual Novelty Changes Reward Representations in the Striatum. Journal of Neuroscience, 2010, 30, 1721-1726.	3.6	91
95	Visual Mismatch and Predictive Coding: A Computational Single-Trial ERP Study. Journal of Neuroscience, 2018, 38, 4020-4030.	3.6	91
96	Pharmacological Fingerprints of Contextual Uncertainty. PLoS Biology, 2016, 14, e1002575.	5.6	91
97	Neurofeedback-mediated self-regulation of the dopaminergic midbrain. Neurolmage, 2013, 83, 817-825.	4.2	90
98	Laminar activity in the hippocampus and entorhinal cortex related to novelty and episodic encoding. Nature Communications, 2014, 5, 5547.	12.8	90
99	Network participation indices: characterizing component roles for information processing in neural networks. Neural Networks, 2003, 16, 1261-1275.	5.9	89
100	Coordinate-independent mapping of structural and functional data by objective relational transformation (ORT). Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 37-54.	4.0	87
101	Repetitive Transcranial Magnetic Stimulation-Induced Changes in Sensorimotor Coupling Parallel Improvements of Somatosensation in Humans. Journal of Neuroscience, 2006, 26, 1945-1952.	3.6	85
102	Effective Connectivity during Processing of Facial Affect: Evidence for Multiple Parallel Pathways. Journal of Neuroscience, 2011, 31, 14378-14385.	3.6	84
103	Extra-classical receptive field effects measured in striate cortex with fMRI. Neurolmage, 2007, 34, 1199-1208.	4.2	83
104	A generative model of whole-brain effective connectivity. Neurolmage, 2018, 179, 505-529.	4.2	83
105	Dynamic Causal Models and Physiological Inference: A Validation Study Using Isoflurane Anaesthesia in Rodents. PLoS ONE, 2011, 6, e22790.	2.5	83
106	Mechanisms of hemispheric specialization: Insights from analyses of connectivity. Neuropsychologia, 2007, 45, 209-228.	1.6	82
107	Biophysical network models and the human connectome. Neurolmage, 2013, 80, 330-338.	4.2	78
108	Cingulate activity and fronto-temporal connectivity in people with prodromal signs of psychosis. Neurolmage, 2010, 49, 947-955.	4.2	77

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109	Amphetamine Sensitization Alters Reward Processing in the Human Striatum and Amygdala. PLoS ONE, 2014, 9, e93955.	2.5	76
110	An Obesity-Predisposing Variant of the FTO Gene Regulates D2R-Dependent Reward Learning. Journal of Neuroscience, 2015, 35, 12584-12592.	3.6	75
111	Losing Control Under Ketamine: Suppressed Cortico-Hippocampal Drive Following Acute Ketamine in Rats. Neuropsychopharmacology, 2015, 40, 268-277.	5.4	73
112	On nodes and modes in resting state fMRI. Neurolmage, 2014, 99, 533-547.	4.2	72
113	Mechanisms of hemispheric lateralization: Asymmetric interhemispheric recruitment in the face perception network. Neurolmage, 2016, 124, 977-988.	4.2	70
114	TAPAS: An Open-Source Software Package for Translational Neuromodeling and Computational Psychiatry. Frontiers in Psychiatry, 2021, 12, 680811.	2.6	69
115	Consistent spectral predictors for dynamic causal models of steady-state responses. Neurolmage, 2011, 55, 1694-1708.	4.2	66
116	Acute Changes in Frontoparietal Activity after Repetitive Transcranial Magnetic Stimulation over the Dorsolateral Prefrontal Cortex in a Cued Reaction Time Task. Journal of Neuroscience, 2006, 26, 9629-9638.	3.6	63
117	Multi-subject analyses with dynamic causal modeling. Neurolmage, 2010, 49, 3065-3074.	4.2	61
118	Ion channels in EEG: isolating channel dysfunction in NMDA receptor antibody encephalitis. Brain, 2018, 141, 1691-1702.	7.6	58
119	Cholinergic Stimulation Enhances Bayesian Belief Updating in the Deployment of Spatial Attention. Journal of Neuroscience, 2014, 34, 15735-15742.	3.6	57
120	A dynamic causal model for evoked and induced responses. Neurolmage, 2012, 59, 340-348.	4.2	56
121	The brain's hemodynamic response function rapidly changes under acute psychosocial stress in association with genetic and endocrine stress response markers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10206-E10215.	7.1	53
122	Computational Mechanisms of Effort and Reward Decisions in Patients With Depression and Their Association With Relapse After Antidepressant Discontinuation. JAMA Psychiatry, 2020, 77, 513.	11.0	53
123	The structural connectivity of subthalamic deep brain stimulation correlates with impulsivity in Parkinson's disease. Brain, 2020, 143, 2235-2254.	7.6	52
124	Regression dynamic causal modeling for resting-state fMRI. Human Brain Mapping, 2021, 42, 2159-2180.	3.6	52
125	Investigating the Functional Role of Callosal Connections with Dynamic Causal Models. Annals of the New York Academy of Sciences, 2005, 1064, 16-36.	3.8	50
126	Fronto-temporal Interactions during Overt Verbal Initiation and Suppression. Journal of Cognitive Neuroscience, 2008, 20, 1656-1669.	2.3	48

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127	Interoception of breathing and its relationship with anxiety. <i>Neuron</i> , 2021, 109, 4080-4093.e8.	8.1	48
128	Test-retest reliability of dynamic causal modeling for fMRI. <i>NeuroImage</i> , 2015, 117, 56-66.	4.2	46
129	Charting the landscape of priority problems in psychiatry, part 2: pathogenesis and aetiology. <i>Lancet Psychiatry</i> , 2016, 3, 84-90.	7.4	46
130	Ketamine Affects Prediction Errors about Statistical Regularities: A Computational Single-Trial Analysis of the Mismatch Negativity. <i>Journal of Neuroscience</i> , 2020, 40, 5658-5668.	3.6	44
131	Observing the Observer (II): Deciding When to Decide. <i>PLoS ONE</i> , 2010, 5, e15555.	2.5	43
132	Computational disease modeling – fact or fiction?. <i>BMC Systems Biology</i> , 2009, 3, 56.	3.0	41
133	In search of the hidden: an fMRI study with implications for the study of patients with autism and with acquired brain injury. <i>NeuroImage</i> , 2003, 19, 674-683.	4.2	40
134	The Binormal Assumption on Precision-Recall Curves. , 2010, , .		40
135	Adaptive and aberrant reward prediction signals in the human brain. <i>NeuroImage</i> , 2010, 50, 657-664.	4.2	40
136	Optimizing Experimental Design for Comparing Models of Brain Function. <i>PLoS Computational Biology</i> , 2011, 7, e1002280.	3.2	40
137	Embodied neurology: an integrative framework for neurological disorders. <i>Brain</i> , 2016, 139, 1855-1861.	7.6	39
138	Analysis and correction of field fluctuations in fMRI data using field monitoring. <i>NeuroImage</i> , 2017, 154, 92-105.	4.2	38
139	Atypical processing of uncertainty in individuals at risk for psychosis. <i>NeuroImage: Clinical</i> , 2020, 26, 102239.	2.7	37
140	Neuroticism and conscientiousness respectively constrain and facilitate short-term plasticity within the working memory neural network. <i>Human Brain Mapping</i> , 2015, 36, 4158-4163.	3.6	36
141	Realizing the Clinical Potential of Computational Psychiatry: Report From the Banbury Center Meeting, February 2019. <i>Biological Psychiatry</i> , 2020, 88, e5-e10.	1.3	36
142	Changes in Auditory Feedback Connections Determine the Severity of Speech Processing Deficits after Stroke. <i>Journal of Neuroscience</i> , 2012, 32, 4260-4270.	3.6	35
143	Mismatch Responses in the Awake Rat: Evidence from Epidural Recordings of Auditory Cortical Fields. <i>PLoS ONE</i> , 2013, 8, e63203.	2.5	35
144	mpdcm: A toolbox for massively parallel dynamic causal modeling. <i>Journal of Neuroscience Methods</i> , 2016, 257, 7-16.	2.5	35

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145	Generative models for clinical applications in computational psychiatry. Wiley Interdisciplinary Reviews: Cognitive Science, 2018, 9, e1460.	2.8	34
146	The history of CoCoMac. Neurolmage, 2013, 80, 46-52.	4.2	33
147	The structural connectivity of discrete networks underlies impulsivity and gambling in Parkinson's disease. Brain, 2019, 142, 3917-3935.	7.6	33
148	Predicting individual clinical trajectories of depression with generative embedding. Neurolmage: Clinical, 2020, 26, 102213.	2.7	33
149	Rapid anatomical brain imaging using spiral acquisition and an expanded signal model. Neurolmage, 2018, 168, 88-100.	4.2	32
150	Volatility Estimates Increase Choice Switching and Relate to Prefrontal Activity in Schizophrenia. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 173-183.	1.5	32
151	Integrated Bayesian models of learning and decision making for saccadic eye movements. Neural Networks, 2008, 21, 1247-1260.	5.9	31
152	Matched-filter acquisition for BOLD fMRI. Neurolmage, 2014, 100, 145-160.	4.2	31
153	Modulation of midbrain neurocircuitry by intranasal insulin. Neurolmage, 2019, 194, 120-127.	4.2	31
154	Cholinergic and dopaminergic effects on prediction error and uncertainty responses during sensory associative learning. Neurolmage, 2021, 226, 117590.	4.2	31
155	Approaches to the cortical analysis of auditory objects. Hearing Research, 2007, 229, 46-53.	2.0	30
156	Variational Bayesian mixed-effects inference for classification studies. Neurolmage, 2013, 76, 345-361.	4.2	30
157	Model-based feature construction for multivariate decoding. Neurolmage, 2011, 56, 601-615.	4.2	29
158	Functional Magnetic Resonance Imaging Investigation of the Amphetamine Sensitization Model of Schizophrenia in Healthy Male Volunteers. Archives of General Psychiatry, 2011, 68, 545.	12.3	26
159	Visuospatial attention: how to measure effects of infrequent, unattended events in a blocked stimulus design. Neurolmage, 2004, 23, 1370-1381.	4.2	25
160	Model selection and gobbledygook: Response to Lohmann et al.. Neurolmage, 2013, 75, 275-278.	4.2	25
161	Hierarchical Bayesian models of social inference for probing persecutory delusional ideation.. Journal of Abnormal Psychology, 2020, 129, 556-569.	1.9	24
162	Connectional characteristics of areas in Walker's map of primate prefrontal cortex. Neurocomputing, 2001, 38-40, 741-746.	5.9	23

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163	A hierarchical model for integrating unsupervised generative embedding and empirical Bayes. Journal of Neuroscience Methods, 2016, 269, 6-20.	2.5	23
164	Prediction of Individual Differences from Neuroimaging Data. NeuroImage, 2017, 145, 135-136.	4.2	23
165	The Filter Detection Task for measurement of breathing-related interoception and metacognition. Biological Psychology, 2021, 165, 108185.	2.2	23
166	Computational models of eye movements and their application to schizophrenia. Current Opinion in Behavioral Sciences, 2016, 11, 21-29.	3.9	21
167	The Stochastic Early Reaction, Inhibition, and late Action (SERIA) model for antisaccades. PLoS Computational Biology, 2017, 13, e1005692.	3.2	21
168	Inflexible social inference in individuals with subclinical persecutory delusional tendencies. Schizophrenia Research, 2020, 215, 344-351.	2.0	21
169	Whole-brain estimates of directed connectivity for human connectomics. NeuroImage, 2021, 225, 117491.	4.2	20
170	Changing meaning causes coupling changes within higher levels of the cortical hierarchy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11765-11770.	7.1	19
171	Surprise beyond prediction error. Human Brain Mapping, 2014, 35, 4805-4814.	3.6	19
172	A model-based analysis of impulsivity using a slot-machine gambling paradigm. Frontiers in Human Neuroscience, 2014, 8, 428.	2.0	18
173	Models of neuromodulation for computational psychiatry. Wiley Interdisciplinary Reviews: Cognitive Science, 2017, 8, e1420.	2.8	18
174	Advances in spiral fMRI: A high-resolution study with single-shot acquisition. NeuroImage, 2022, 246, 118738.	4.2	18
175	Context-dependent interactions of left posterior inferior frontal gyrus in a local visual search task unrelated to language. Cognitive Neuropsychology, 2005, 22, 292-305.	1.1	17
176	Learning What to See in a Changing World. Frontiers in Human Neuroscience, 2016, 10, 263.	2.0	17
177	Timing of repetition suppression of event-related potentials to unattended objects. European Journal of Neuroscience, 2020, 52, 4432-4441.	2.6	17
178	A Role for Broca's Area Beyond Language Processing: Evidence from Neuropsychology and fMRI. , 2006, , 254-268.		16
179	Models of Functional Neuroimaging Data. Current Medical Imaging, 2006, 2, 15-34.	0.8	15
180	Subjective estimates of uncertainty during gambling and impulsivity after subthalamic deep brain stimulation for Parkinson's disease. Scientific Reports, 2019, 9, 14795.	3.3	15

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181	Episodic Tags Enhance Striatal Valuation Signals during Temporal Discounting in pathological Gamblers. <i>ENeuro</i> , 2017, 4, ENEURO.0159-17.2017.	1.9	15
182	Optogenetic activation of striatal D1R and D2R cells differentially engages downstream connected areas beyond the basal ganglia. <i>Cell Reports</i> , 2021, 37, 110161.	6.4	15
183	Feature-specific prediction errors for visual mismatch. <i>NeuroImage</i> , 2019, 196, 142-151.	4.2	14
184	Model-based prediction of muscarinic receptor function from auditory mismatch negativity responses. <i>NeuroImage</i> , 2021, 237, 118096.	4.2	13
185	One cortex “many maps: An introduction to coordinate-independent mapping by Objective Relational Transformation (ORT). <i>Neurocomputing</i> , 1999, 26-27, 1049-1054.	5.9	12
186	Inversion of hierarchical Bayesian models using Gaussian processes. <i>NeuroImage</i> , 2015, 118, 133-145.	4.2	12
187	Variational Bayesian inversion for hierarchical unsupervised generative embedding (HUGE). <i>NeuroImage</i> , 2018, 179, 604-619.	4.2	12
188	Models of Effective Connectivity in Neural Systems. <i>Understanding Complex Systems</i> , 2007, , 303-327.	0.6	12
189	Temporal activation patterns of lateralized cognitive and task control processes in the human brain. <i>Brain Research</i> , 2008, 1205, 81-90.	2.2	11
190	A Hilbert-based method for processing respiratory timeseries. <i>NeuroImage</i> , 2021, 230, 117787.	4.2	11
191	Bayesian inference, dysconnectivity and neuromodulation in schizophrenia. <i>Brain</i> , 2016, 139, 1874-1876.	7.6	10
192	Conductance-based dynamic causal modeling: A mathematical review of its application to cross-power spectral densities. <i>NeuroImage</i> , 2021, 245, 118662.	4.2	10
193	Markov chain Monte Carlo methods for hierarchical clustering of dynamic causal models. <i>Human Brain Mapping</i> , 2021, 42, 2973-2989.	3.6	9
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