

John D Murray

List of Publications by Year in descending order

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59
papers

7,455
citations

126907

33
h-index

144013

57
g-index

93
all docs

93
docs citations

93
times ranked

8227
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of default network deactivation in cognition and disease. Trends in Cognitive Sciences, 2012, 16, 584-592.	7.8	805
2	A hierarchy of intrinsic timescales across primate cortex. Nature Neuroscience, 2014, 17, 1661-1663.	14.8	734
3	Hierarchy of transcriptomic specialization across human cortex captured by structural neuroimaging topography. Nature Neuroscience, 2018, 21, 1251-1259.	14.8	459
4	Characterizing Thalamo-Cortical Disturbances in Schizophrenia and Bipolar Illness. Cerebral Cortex, 2014, 24, 3116-3130.	2.9	415
5	Altered global brain signal in schizophrenia. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7438-7443.	7.1	347
6	Stable population coding for working memory coexists with heterogeneous neural dynamics in prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 394-399.	7.1	289
7	Association of Thalamic Dysconnectivity and Conversion to Psychosis in Youth and Young Adults at Elevated Clinical Risk. JAMA Psychiatry, 2015, 72, 882.	11.0	284
8	Hierarchical Heterogeneity across Human Cortex Shapes Large-Scale Neural Dynamics. Neuron, 2019, 101, 1181-1194.e13.	8.1	271
9	Generative modeling of brain maps with spatial autocorrelation. NeuroImage, 2020, 220, 117038.	4.2	250
10	Changes in global and thalamic brain connectivity in LSD-induced altered states of consciousness are attributable to the 5-HT2A receptor. ELife, 2018, 7, .	6.0	244
11	Persistent Spiking Activity Underlies Working Memory. Journal of Neuroscience, 2018, 38, 7020-7028.	3.6	229
12	NMDA receptor function in large-scale anticorrelated neural systems with implications for cognition and schizophrenia. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16720-16725.	7.1	226
13	Searching for Cross-Diagnostic Convergence: Neural Mechanisms Governing Excitation and Inhibition Balance in Schizophrenia and Autism Spectrum Disorders. Biological Psychiatry, 2017, 81, 848-861.	1.3	217
14	Linking Microcircuit Dysfunction to Cognitive Impairment: Effects of Disinhibition Associated with Schizophrenia in a Cortical Working Memory Model. Cerebral Cortex, 2014, 24, 859-872.	2.9	213
15	Multimodal gradients across mouse cortex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4689-4695.	7.1	186
16	Feedforward and feedback frequency-dependent interactions in a large-scale laminar network of the primate cortex. Science Advances, 2016, 2, e1601335.	10.3	158
17	Early-Course Unmedicated Schizophrenia Patients Exhibit Elevated Prefrontal Connectivity Associated with Longitudinal Change. Journal of Neuroscience, 2015, 35, 267-286.	3.6	153
18	Impaired Tuning of Neural Ensembles and the Pathophysiology of Schizophrenia: A Translational and Computational Neuroscience Perspective. Biological Psychiatry, 2017, 81, 874-885.	1.3	151

#	ARTICLE	IF	CITATIONS
19	N-Methyl-D-Aspartate Receptor Antagonist Effects on Prefrontal Cortical Connectivity Better Model Early Than Chronic Schizophrenia. <i>Biological Psychiatry</i> , 2015, 77, 569-580.	1.3	144
20	Working Memory and Decision-Making in a Frontoparietal Circuit Model. <i>Journal of Neuroscience</i> , 2017, 37, 12167-12186.	3.6	121
21	A dendritic disinhibitory circuit mechanism for pathway-specific gating. <i>Nature Communications</i> , 2016, 7, 12815.	12.8	118
22	Functional hierarchy underlies preferential connectivity disturbances in schizophrenia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E219-28.	7.1	115
23	Psilocybin Induces Time-Dependent Changes in Global Functional Connectivity. <i>Biological Psychiatry</i> , 2020, 88, 197-207.	1.3	104
24	Mediodorsal and Visual Thalamic Connectivity Differ in Schizophrenia and Bipolar Disorder With and Without Psychosis History. <i>Schizophrenia Bulletin</i> , 2014, 40, 1227-1243.	4.3	84
25	25th Annual Computational Neuroscience Meeting: CNS-2016. <i>BMC Neuroscience</i> , 2016, 17, 54.	1.9	81
26	Connectivity, Pharmacology, and Computation: Toward a Mechanistic Understanding of Neural System Dysfunction in Schizophrenia. <i>Frontiers in Psychiatry</i> , 2013, 4, 169.	2.6	68
27	Quantum computing at the frontiers of biological sciences. <i>Nature Methods</i> , 2021, 18, 701-709.	19.0	64
28	Altered Global Signal Topography in Schizophrenia. <i>Cerebral Cortex</i> , 2017, 27, 5156-5169.	2.9	61
29	A flexible framework for simulating and fitting generalized drift-diffusion models. <i>ELife</i> , 2020, 9, .	6.0	61
30	Functional connectivity change as shared signal dynamics. <i>Journal of Neuroscience Methods</i> , 2016, 259, 22-39.	2.5	58
31	Schizophrenia is associated with a pattern of spatial working memory deficits consistent with cortical disinhibition. <i>Schizophrenia Research</i> , 2017, 181, 107-116.	2.0	53
32	Bridging Levels of Understanding in Schizophrenia Through Computational Modeling. <i>Clinical Psychological Science</i> , 2015, 3, 433-459.	4.0	50
33	Sensory-motor cortices shape functional connectivity dynamics in the human brain. <i>Nature Communications</i> , 2021, 12, 6373.	12.8	48
34	Toward understanding thalamocortical dysfunction in schizophrenia through computational models of neural circuit dynamics. <i>Schizophrenia Research</i> , 2017, 180, 70-77.	2.0	47
35	Computational Modeling of Electroencephalography and Functional Magnetic Resonance Imaging Paradigms Indicates a Consistent Loss of Pyramidal Cell Synaptic Gain in Schizophrenia. <i>Biological Psychiatry</i> , 2022, 91, 202-215.	1.3	40
36	Computational Psychiatry and the Challenge of Schizophrenia. <i>Schizophrenia Bulletin</i> , 2017, 43, 473-475.	4.3	38

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37	Biophysical Modeling of Large-Scale Brain Dynamics and Applications for Computational Psychiatry. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 777-787.	1.5	35
38	Effects of Altered Excitation-Inhibition Balance on Decision Making in a Cortical Circuit Model. <i>Journal of Neuroscience</i> , 2022, 42, 1035-1053.	3.6	33
39	Structural Covariance Reveals Alterations in Control and Salience Network Integrity in Chronic Schizophrenia. <i>Cerebral Cortex</i> , 2019, 29, 5269-5284.	2.9	29
40	Timescales of cognition in the brain. <i>Current Opinion in Behavioral Sciences</i> , 2021, 41, 30-37.	3.9	28
41	Transcriptomics-informed large-scale cortical model captures topography of pharmacological neuroimaging effects of LSD. <i>ELife</i> , 2021, 10, .	6.0	22
42	Mapping brain-behavior space relationships along the psychosis spectrum. <i>ELife</i> , 2021, 10, .	6.0	21
43	Excitatory-inhibitory tone shapes decision strategies in a hierarchical neural network model of multi-attribute choice. <i>PLoS Computational Biology</i> , 2021, 17, e1008791.	3.2	18
44	Confluence of Timing and Reward Biases in Perceptual Decision-Making Dynamics. <i>Journal of Neuroscience</i> , 2020, 40, 7326-7342.	3.6	16
45	Rebalancing Altered Computations: Considering the Role of Neural Excitation and Inhibition Balance Across the Psychiatric Spectrum. <i>Biological Psychiatry</i> , 2017, 81, 816-817.	1.3	15
46	Enhancing single-molecule photostability by optical feedback from quantum jump detection. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	14
47	A circuit mechanism for decision-making biases and NMDA receptor hypofunction. <i>ELife</i> , 2020, 9, .	6.0	14
48	Simulating Cortical Feedback Modulation as Changes in Excitation and Inhibition in a Cortical Circuit Model. <i>ENeuro</i> , 2016, 3, ENEURO.0208-16.2016.	1.9	11
49	PsychRNN: An Accessible and Flexible Python Package for Training Recurrent Neural Network Models on Cognitive Tasks. <i>ENeuro</i> , 2021, 8, ENEURO.0427-20.2020.	1.9	10
50	Effects of reward on spatial working memory in schizophrenia. <i>Journal of Abnormal Psychology</i> , 2018, 127, 695-709.	1.9	9
51	Trial-to-Trial Variability of Spiking Delay Activity in Prefrontal Cortex Constrains Burst-Coding Models of Working Memory. <i>Journal of Neuroscience</i> , 2021, 41, 8928-8945.	3.6	8
52	Cortical Circuit Models in Psychiatry. , 2018, , 3-25.		6
53	Ketamine's Antidepressant Actions: Potential Mechanisms in the Primate Medial Prefrontal Circuits That Represent Aversive Experience. <i>Biological Psychiatry</i> , 2016, 79, 713-715.	1.3	4
54	Refining the Empirical Constraints on Computational Models of Spatial Working Memory in Schizophrenia. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 913-922.	1.5	4

#	ARTICLE	IF	CITATIONS
55	Transient neuronal suppression for exploitation of new sensory evidence. Nature Communications, 2022, 13, 23.	12.8	4
56	Reward and loss incentives improve spatial working memory by shaping trial-by-trial posterior frontoparietal signals. NeuroImage, 2022, 254, 119139.	4.2	4
57	What Can Tracking Fluctuations in Dozens of Sensory Neurons Tell about Selective Attention?. Frontiers in Systems Neuroscience, 2011, 5, 35.	2.5	1
58	Meeting Emerging Challenges and Opportunities in Psychiatry Through Computational Neuroscience. , 2018, , xiii-xxxi.		0
59	Illness Phase as a Key Assessment and Intervention Window for Psychosis. Biological Psychiatry Global Open Science, 2022, , .	2.2	0