

Christopher I Moore

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

9,396
citations

101543

36
h-index

123424

61
g-index

76
all docs

76
docs citations

76
times ranked

10200
citing authors

#	ARTICLE	IF	CITATIONS
1	Driving fast-spiking cells induces gamma rhythm and controls sensory responses. <i>Nature</i> , 2009, 459, 663-667.	27.8	2,250
2	Meditation experience is associated with increased cortical thickness. <i>NeuroReport</i> , 2005, 16, 1893-1897.	1.2	1,258
3	Targeted optogenetic stimulation and recording of neurons in vivo using cell-type-specific expression of Channelrhodopsin-2. <i>Nature Protocols</i> , 2010, 5, 247-254.	12.0	477
4	Neural mechanisms of transient neocortical beta rhythms: Converging evidence from humans, computational modeling, monkeys, and mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4885-94.	7.1	360
5	Spatio-Temporal Subthreshold Receptive Fields in the Vibrissa Representation of Rat Primary Somatosensory Cortex. <i>Journal of Neurophysiology</i> , 1998, 80, 2882-2892.	1.8	297
6	Selective optical drive of thalamic reticular nucleus generates thalamic bursts and cortical spindles. <i>Nature Neuroscience</i> , 2011, 14, 1118-1120.	14.8	248
7	Cued Spatial Attention Drives Functionally Relevant Modulation of the Mu Rhythm in Primary Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 13760-13765.	3.6	234
8	The rate of transient beta frequency events predicts behavior across tasks and species. <i>ELife</i> , 2017, 6, .	6.0	220
9	Quantitative Analysis and Biophysically Realistic Neural Modeling of the MEG Mu Rhythm: Rhythmogenesis and Modulation of Sensory-Evoked Responses. <i>Journal of Neurophysiology</i> , 2009, 102, 3554-3572.	1.8	203
10	Mindfulness starts with the body: somatosensory attention and top-down modulation of cortical alpha rhythms in mindfulness meditation. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 12.	2.0	202
11	The Hemo-Neural Hypothesis: On The Role of Blood Flow in Information Processing. <i>Journal of Neurophysiology</i> , 2008, 99, 2035-2047.	1.8	198
12	Embodied Information Processing: Vibrissa Mechanics and Texture Features Shape Micromotions in Actively Sensing Rats. <i>Neuron</i> , 2008, 57, 599-613.	8.1	185
13	Vibrissa Resonance as a Transduction Mechanism for Tactile Encoding. <i>Journal of Neuroscience</i> , 2003, 23, 6499-6509.	3.6	157
14	Segregation of Somatosensory Activation in the Human Rolandic Cortex Using fMRI. <i>Journal of Neurophysiology</i> , 2000, 84, 558-569.	1.8	156
15	Structural and functional plasticity in the somatosensory cortex of chronic stroke patients. <i>Brain</i> , 2006, 129, 2722-2733.	7.6	155
16	A somatotopic map of vibrissa motion direction within a barrel column. <i>Nature Neuroscience</i> , 2006, 9, 543-551.	14.8	149
17	Dynamics of neuronal processing in rat somatosensory cortex. <i>Trends in Neurosciences</i> , 1999, 22, 513-520.	8.6	143
18	Neural Correlates of Tactile Detection: A Combined Magnetoencephalography and Biophysically Based Computational Modeling Study. <i>Journal of Neuroscience</i> , 2007, 27, 10751-10764.	3.6	142

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19	Motion Aftereffects Transfer between Touch and Vision. <i>Current Biology</i> , 2009, 19, 745-750.	3.9	140
20	The flexDrive: an ultra-light implant for optical control and highly parallel chronic recording of neuronal ensembles in freely moving mice. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 8.	2.5	137
21	Gamma-range synchronization of fast-spiking interneurons can enhance detection of tactile stimuli. <i>Nature Neuroscience</i> , 2014, 17, 1371-1379.	14.8	137
22	A Pilot Study of Somatotopic Mapping After Cortical Infarct. <i>Stroke</i> , 2000, 31, 668-671.	2.0	134
23	Characterization of the Functional MRI Response Temporal Linearity via Optical Control of Neocortical Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 15086-15091.	3.6	117
24	Neural Correlates of Vibrissa Resonance. <i>Neuron</i> , 2004, 42, 451-463.	8.1	116
25	Dysfunction of cortical GABAergic neurons leads to sensory hyper-reactivity in a Shank3 mouse model of ASD. <i>Nature Neuroscience</i> , 2020, 23, 520-532.	14.8	115
26	Wave-like dopamine dynamics as a mechanism for spatiotemporal credit assignment. <i>Cell</i> , 2021, 184, 2733-2749.e16.	28.9	112
27	Frequency-Dependent Processing in the Vibrissa Sensory System. <i>Journal of Neurophysiology</i> , 2004, 91, 2390-2399.	1.8	99
28	Effects of mindfulness meditation training on anticipatory alpha modulation in primary somatosensory cortex. <i>Brain Research Bulletin</i> , 2011, 85, 96-103.	3.0	99
29	Neocortical Interneurons: From Diversity, Strength. <i>Cell</i> , 2010, 142, 184-188.	28.9	95
30	Early Life Stress Drives Sex-Selective Impairment in Reversal Learning by Affecting Parvalbumin Interneurons in Orbitofrontal Cortex of Mice. <i>Cell Reports</i> , 2018, 25, 2299-2307.e4.	6.4	82
31	Band-Pass Response Properties of Rat SI Neurons. <i>Journal of Neurophysiology</i> , 2003, 90, 1379-1391.	1.8	80
32	Attention Drives Synchronization of Alpha and Beta Rhythms between Right Inferior Frontal and Primary Sensory Neocortex. <i>Journal of Neuroscience</i> , 2015, 35, 2074-2082.	3.6	79
33	Computational Modeling of Distinct Neocortical Oscillations Driven by Cell-Type Selective Optogenetic Drive: Separable Resonant Circuits Controlled by Low-Threshold Spiking and Fast-Spiking Interneurons. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 198.	2.0	76
34	Human Neocortical Neurosolver (HNN), a new software tool for interpreting the cellular and network origin of human MEG/EEG data. <i>ELife</i> , 2020, 9, .	6.0	68
35	Temporal Modulation of Spatial Borders in Rat Barrel Cortex. <i>Journal of Neurophysiology</i> , 1998, 79, 464-470.	1.8	66
36	Temporal and Mosaic Tsc1 Deletion in the Developing Thalamus Disrupts Thalamocortical Circuitry, Neural Function, and Behavior. <i>Neuron</i> , 2013, 78, 895-909.	8.1	60

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37	Transformations in oscillatory activity and evoked responses in primary somatosensory cortex in middle age: A combined computational neural modeling and MEG study. <i>NeuroImage</i> , 2010, 52, 897-912.	4.2	44
38	For things needing your attention: the role of neocortical gamma in sensory perception. <i>Current Opinion in Neurobiology</i> , 2015, 31, 254-263.	4.2	39
39	A three-dimensional neural spheroid model for capillary-like network formation. <i>Journal of Neuroscience Methods</i> , 2018, 299, 55-63.	2.5	39
40	What do We Gain from Gamma? Local Dynamic Gain Modulation Drives Enhanced Efficacy and Efficiency of Signal Transmission. <i>Frontiers in Human Neuroscience</i> , 2010, 04, 185.	2.0	38
41	Activity in the Barrel Cortex During Active Behavior and Sleep. <i>Journal of Neurophysiology</i> , 2010, 103, 2074-2084.	1.8	35
42	Thalamic Bursts Down-regulate Cortical Theta and Nociceptive Behavior. <i>Scientific Reports</i> , 2017, 7, 2482.	3.3	32
43	Interactionist Neuroscience. <i>Neuron</i> , 2015, 88, 855-860.	8.1	29
44	Increase in Sensorimotor Cortex Response to Somatosensory Stimulation Over Subacute Poststroke Period Correlates With Motor Recovery in Hemiparetic Patients. <i>Neurorehabilitation and Neural Repair</i> , 2012, 26, 325-334.	2.9	28
45	Cortical Dynamics As A Therapeutic Mechanism for Touch Healing. <i>Journal of Alternative and Complementary Medicine</i> , 2007, 13, 59-66.	2.1	25
46	Cross-modal extinction in a boy with severely autistic behaviour and high verbal intelligence. <i>Cognitive Neuropsychology</i> , 2008, 25, 635-652.	1.1	25
47	Combined Optogenetic and Chemogenetic Control of Neurons. <i>Methods in Molecular Biology</i> , 2016, 1408, 207-225.	0.9	25
48	A Prospective Study of the Impact of Transcranial Alternating Current Stimulation on EEG Correlates of Somatosensory Perception. <i>Frontiers in Psychology</i> , 2018, 9, 2117.	2.1	21
49	Layer 6 ensembles can selectively regulate the behavioral impact and layer-specific representation of sensory deviants. <i>ELife</i> , 2020, 9, .	6.0	20
50	The BioLuminescentâ€œOptoGenetic <i>in vivo</i> response to coelenterazine is proportional, sensitive, and specific in neocortex. <i>Journal of Neuroscience Research</i> , 2020, 98, 471-480.	2.9	18
51	Selective postnatal excitation of neocortical pyramidal neurons results in distinctive behavioral and circuit deficits in adulthood. <i>IScience</i> , 2021, 24, 102157.	4.1	18
52	Neocortical Correlates of Vibrotactile Detection in Humans. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 49-61.	2.3	14
53	Persistent Gamma Spiking in SI Nonsensory Fast Spiking Cells Predicts Perceptual Success. <i>Neuron</i> , 2019, 103, 1150-1163.e5.	8.1	14
54	Selective control of synaptically-connected circuit elements by all-optical synapses. <i>Communications Biology</i> , 2022, 5, 33.	4.4	14

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55	Chronically implanted hyperdrive for cortical recording and optogenetic control in behaving mice. , 2011, 2011, 7529-32.		12
56	Pinacidil induces vascular dilation and hyperemia in vivo and does not impact biophysical properties of neurons and astrocytes in vitro. Cleveland Clinic Journal of Medicine, 2009, 76, S80-S85.	1.3	12
57	What can crossmodal aftereffects reveal about neural representation and dynamics?. Communicative and Integrative Biology, 2009, 2, 479-481.	1.4	10
58	BLâ€œOG: BioLuminescentâ€œOptoGenetics. Journal of Neuroscience Research, 2020, 98, 469-470.	2.9	5
59	Cortical Circuits: Finding Balance in the Brain. Current Biology, 2011, 21, R956-R957.	3.9	4
60	Systematic Examination of the Impact of Depolarization Duration on Thalamic Reticular Nucleus Firing in vivo. Neuroscience, 2018, 368, 187-198.	2.3	3
61	Autism Overflows with Syntheses. Neuropsychology Review, 2009, 19, 273-274.	4.9	2
62	Cortical plasticity and LTP. Behavioral and Brain Sciences, 1997, 20, 623-624.	0.7	1
63	Response to Letter: Ritt etÂal., â€œEmbodied Information Processing: Vibrissa Mechanics and Texture Features Shape Micromotions in Actively Sensing Rats.â€•Neuron 57, 599â€œ613. Neuron, 2008, 60, 745-747.	8.1	0
64	Persistent Gamma Spiking in Non-Sensory Fast-Spiking Cells Predicts Perceptual Success. SSRN Electronic Journal, 0, , .	0.4	0