Christopher I Moore

List of Publications by Year
in descending order

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	Selective control of synaptically-connected circuit elements by all-optical synapses. Communications Biology, 2022, 5, 33.	4.4	14
2	Selective postnatal excitation of neocortical pyramidal neurons results in distinctive behavioral and circuit deficits in adulthood. IScience, 2021, 24, 102157.	4.1	18
3	Wave-like dopamine dynamics as a mechanism for spatiotemporal credit assignment. Cell, 2021, 184, 2733-2749.e16.	28.9	112
4	The BioLuminescentâ€OptoGenetic in vivo response to coelenterazine is proportional, sensitive, and specific in neocortex. Journal of Neuroscience Research, 2020, 98, 471-480.	2.9	18
5	BLâ€OG: BioLuminescentâ€OptoGenetics. Journal of Neuroscience Research, 2020, 98, 469-470.	2.9	5
6	Dysfunction of cortical GABAergic neurons leads to sensory hyper-reactivity in a Shank3 mouse model of ASD. Nature Neuroscience, 2020, 23, 520-532.	14.8	115
7	Layer 6 ensembles can selectively regulate the behavioral impact and layer-specific representation of sensory deviants. ELife, 2020, 9, .	6.0	20
8	Human Neocortical Neurosolver (HNN), a new software tool for interpreting the cellular and network origin of human MEG/EEG data. ELife, 2020, 9, .	6.0	68
9	Persistent Gamma Spiking in SI Nonsensory Fast Spiking Cells Predicts Perceptual Success. Neuron, 2019, 103, 1150-1163.e5.	8.1	14
10	A three-dimensional neural spheroid model for capillary-like network formation. Journal of Neuroscience Methods, 2018, 299, 55-63.	2.5	39
11	Systematic Examination of the Impact of Depolarization Duration on Thalamic Reticular Nucleus Firing in vivo. Neuroscience, 2018, 368, 187-198.	2.3	3
12	A Prospective Study of the Impact of Transcranial Alternating Current Stimulation on EEG Correlates of Somatosensory Perception. Frontiers in Psychology, 2018, 9, 2117.	2.1	21
13	Early Life Stress Drives Sex-Selective Impairment in Reversal Learning by Affecting Parvalbumin Interneurons in Orbitofrontal Cortex of Mice. Cell Reports, 2018, 25, 2299-2307.e4.	6.4	82
14	Thalamic Bursts Down-regulate Cortical Theta and Nociceptive Behavior. Scientific Reports, 2017, 7, 2482.	3.3	32
15	The rate of transient beta frequency events predicts behavior across tasks and species. ELife, 2017, 6, .	6.0	220
16	Neural mechanisms of transient neocortical beta rhythms: Converging evidence from humans, computational modeling, monkeys, and mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4885-94.	7.1	360
17	Combined Optogenetic and Chemogenetic Control of Neurons. Methods in Molecular Biology, 2016, 1408, 207-225.	0.9	25
18	Interactionist Neuroscience. Neuron, 2015, 88, 855-860.	8.1	29

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19	Attention Drives Synchronization of Alpha and Beta Rhythms between Right Inferior Frontal and Primary Sensory Neocortex. Journal of Neuroscience, 2015, 35, 2074-2082.	3.6	79
20	For things needing your attention: the role of neocortical gamma in sensory perception. Current Opinion in Neurobiology, 2015, 31, 254-263.	4.2	39
21	Gamma-range synchronization of fast-spiking interneurons can enhance detection of tactile stimuli. Nature Neuroscience, 2014, 17, 1371-1379.	14.8	137
22	Mindfulness starts with the body: somatosensory attention and top-down modulation of cortical alpha rhythms in mindfulness meditation. Frontiers in Human Neuroscience, 2013, 7, 12.	2.0	202
23	Temporal and Mosaic Tsc1 Deletion in the Developing Thalamus Disrupts Thalamocortical Circuitry, Neural Function, and Behavior. Neuron, 2013, 78, 895-909.	8.1	60
24	Neocortical Correlates of Vibrotactile Detection in Humans. Journal of Cognitive Neuroscience, 2013, 25, 49-61.	2.3	14
25	The flexDrive: an ultra-light implant for optical control and highly parallel chronic recording of neuronal ensembles in freely moving mice. Frontiers in Systems Neuroscience, 2013, 7, 8.	2.5	137
26	Increase in Sensorimotor Cortex Response to Somatosensory Stimulation Over Subacute Poststroke Period Correlates With Motor Recovery in Hemiparetic Patients. Neurorehabilitation and Neural Repair, 2012, 26, 325-334.	2.9	28
27	Effects of mindfulness meditation training on anticipatory alpha modulation in primary somatosensory cortex. Brain Research Bulletin, 2011, 85, 96-103.	3.0	99
28	Selective optical drive of thalamic reticular nucleus generates thalamic bursts and cortical spindles. Nature Neuroscience, 2011, 14, 1118-1120.	14.8	248
29	Cortical Circuits: Finding Balance in the Brain. Current Biology, 2011, 21, R956-R957.	3.9	4
30	Chronically implanted hyperdrive for cortical recording and optogenetic control in behaving mice. , 2011, 2011, 7529-32.		12
31	Characterization of the Functional MRI Response Temporal Linearity via Optical Control of Neocortical Pyramidal Neurons. Journal of Neuroscience, 2011, 31, 15086-15091.	3.6	117
32	Activity in the Barrel Cortex During Active Behavior and Sleep. Journal of Neurophysiology, 2010, 103, 2074-2084.	1.8	35
33	Targeted optogenetic stimulation and recording of neurons in vivo using cell-type-specific expression of Channelrhodopsin-2. Nature Protocols, 2010, 5, 247-254.	12.0	477
34	What do We Gain from Gamma? Local Dynamic Gain Modulation Drives Enhanced Efficacy and Efficiency of Signal Transmission. Frontiers in Human Neuroscience, 2010, 04, 185.	2.0	38
35	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. Frontiers in Human Neuroscience, 2010, 4, 198.	2.0	76
36	Transformations in oscillatory activity and evoked responses in primary somatosensory cortex in middle age: A combined computational neural modeling and MEG study. NeuroImage, 2010, 52, 897-912.	4.2	44

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37	Neocortical Interneurons: From Diversity, Strength. Cell, 2010, 142, 184-188.	28.9	95
38	Cued Spatial Attention Drives Functionally Relevant Modulation of the Mu Rhythm in Primary Somatosensory Cortex. Journal of Neuroscience, 2010, 30, 13760-13765.	3.6	234
39	What can crossmodal aftereffects reveal about neural representation and dynamics?. Communicative and Integrative Biology, 2009, 2, 479-481.	1.4	10
40	Motion Aftereffects Transfer between Touch and Vision. Current Biology, 2009, 19, 745-750.	3.9	140
41	Autism Overflows with Syntheses. Neuropsychology Review, 2009, 19, 273-274.	4.9	2
42	Driving fast-spiking cells induces gamma rhythm and controls sensory responses. Nature, 2009, 459, 663-667.	27.8	2,250
43	Quantitative Analysis and Biophysically Realistic Neural Modeling of the MEG Mu Rhythm: Rhythmogenesis and Modulation of Sensory-Evoked Responses. Journal of Neurophysiology, 2009, 102, 3554-3572.	1.8	203
44	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
45	Embodied Information Processing: Vibrissa Mechanics and Texture Features Shape Micromotions in Actively Sensing Rats. Neuron, 2008, 57, 599-613.	8.1	185
46	Response to Letter: Ritt etÂal., â€œEmbodied Information Processing: Vibrissa Mechanics and Texture Features Shape Micromotions in Actively Sensing Rats.â€•Neuron 57, 599â€“613. Neuron, 2008, 60, 745-747.	8.1	0
47	Cross-modal extinction in a boy with severely autistic behaviour and high verbal intelligence. Cognitive Neuropsychology, 2008, 25, 635-652.	1.1	25
48	The Hemo-Neural Hypothesis: On The Role of Blood Flow in Information Processing. Journal of Neurophysiology, 2008, 99, 2035-2047.	1.8	198
49	Neural Correlates of Tactile Detection: A Combined Magnetoencephalography and Biophysically Based Computational Modeling Study. Journal of Neuroscience, 2007, 27, 10751-10764.	3.6	142
50	Cortical Dynamics As A Therapeutic Mechanism for Touch Healing. Journal of Alternative and Complementary Medicine, 2007, 13, 59-66.	2.1	25
51	A somatotopic map of vibrissa motion direction within a barrel column. Nature Neuroscience, 2006, 9, 543-551.	14.8	149
52	Structural and functional plasticity in the somatosensory cortex of chronic stroke patients. Brain, 2006, 129, 2722-2733.	7.6	155
53	Meditation experience is associated with increased cortical thickness. NeuroReport, 2005, 16, 1893-1897.	1.2	1,258
54	Frequency-Dependent Processing in the Vibrissa Sensory System. Journal of Neurophysiology, 2004, 91, 2390-2399.	1.8	99

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55	Neural Correlates of Vibrissa Resonance. Neuron, 2004, 42, 451-463.	8.1	116
56	Band-Pass Response Properties of Rat SI Neurons. Journal of Neurophysiology, 2003, 90, 1379-1391.	1.8	80
57	Vibrissa Resonance as a Transduction Mechanism for Tactile Encoding. Journal of Neuroscience, 2003, 23, 6499-6509.	3.6	157
58	A Pilot Study of Somatotopic Mapping After Cortical Infarct. Stroke, 2000, 31, 668-671.	2.0	134
59	Segregation of Somatosensory Activation in the Human Rolandic Cortex Using fMRI. Journal of Neurophysiology, 2000, 84, 558-569.	1.8	156
60	Dynamics of neuronal processing in rat somatosensory cortex. Trends in Neurosciences, 1999, 22, 513-520.	8.6	143
61	Temporal Modulation of Spatial Borders in Rat Barrel Cortex. Journal of Neurophysiology, 1998, 79, 464-470.	1.8	66
62	Spatio-Temporal Subthreshold Receptive Fields in the Vibrissa Representation of Rat Primary Somatosensory Cortex. Journal of Neurophysiology, 1998, 80, 2882-2892.	1.8	297
63	Cortical plasticity and LTP. Behavioral and Brain Sciences, 1997, 20, 623-624.	0.7	1
64	Persistent Gamma Spiking in Non-Sensory Fast-Spiking Cells Predicts Perceptual Success. SSRN Electronic Journal, 0, , .	0.4	0