

Daniel H. O'Connor

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

5,119
citations

257357

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330025

37
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46
all docs

46
docs citations

46
times ranked

4826
citing authors

#	ARTICLE	IF	CITATIONS
1	Attention modulates responses in the human lateral geniculate nucleus. <i>Nature Neuroscience</i> , 2002, 5, 1203-1209.	7.1	590
2	Nonlinear dendritic integration of sensory and motor input during an active sensing task. <i>Nature</i> , 2012, 492, 247-251.	13.7	464
3	Neural Activity in Barrel Cortex Underlying Vibrissa-Based Object Localization in Mice. <i>Neuron</i> , 2010, 67, 1048-1061.	3.8	444
4	Learning-related fine-scale specificity imaged in motor cortex circuits of behaving mice. <i>Nature</i> , 2010, 464, 1182-1186.	13.7	409
5	Procedures for Behavioral Experiments in Head-Fixed Mice. <i>PLoS ONE</i> , 2014, 9, e88678.	1.1	371
6	Vibrissa-Based Object Localization in Head-Fixed Mice. <i>Journal of Neuroscience</i> , 2010, 30, 1947-1967.	1.7	297
7	Neural coding during active somatosensation revealed using illusory touch. <i>Nature Neuroscience</i> , 2013, 16, 958-965.	7.1	228
8	Graded bidirectional synaptic plasticity is composed of switch-like unitary events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9679-9684.	3.3	206
9	Functional Imaging of the Human Lateral Geniculate Nucleus and Pulvinar. <i>Journal of Neurophysiology</i> , 2004, 91, 438-448.	0.9	197
10	How silent is the brain: is there a "dark matter" problem in neuroscience?. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2006, 192, 777-784.	0.7	197
11	Origins of choice-related activity in mouse somatosensory cortex. <i>Nature Neuroscience</i> , 2016, 19, 127-134.	7.1	176
12	Sensory and decision-related activity propagate in a cortical feedback loop during touch perception. <i>Nature Neuroscience</i> , 2016, 19, 1243-1249.	7.1	175
13	Automated Tracking of Whiskers in Videos of Head Fixed Rodents. <i>PLoS Computational Biology</i> , 2012, 8, e1002591.	1.5	149
14	Characterization and Subcellular Targeting of GCaMP-Type Genetically-Encoded Calcium Indicators. <i>PLoS ONE</i> , 2008, 3, e1796.	1.1	139
15	Rapid neurotransmitter uncaging in spatially defined patterns. <i>Nature Methods</i> , 2005, 2, 837-843.	9.0	133
16	Reverse engineering the mouse brain. <i>Nature</i> , 2009, 461, 923-929.	13.7	127
17	The Mechanical Variables Underlying Object Localization along the Axis of the Whisker. <i>Journal of Neuroscience</i> , 2013, 33, 6726-6741.	1.7	126
18	Active Touch and Self-Motion Encoding by Merkel Cell-Associated Afferents. <i>Neuron</i> , 2017, 94, 666-676.e9.	3.8	109

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19	Pictorial and Conceptual Representation of Glimpsed Pictures.. Journal of Experimental Psychology: Human Perception and Performance, 2004, 30, 478-489.	0.7	75
20	Low-noise encoding of active touch by layer 4 in the somatosensory cortex. ELife, 2015, 4, .	2.8	74
21	Dissection of Bidirectional Synaptic Plasticity Into Saturable Unidirectional Processes. Journal of Neurophysiology, 2005, 94, 1565-1573.	0.9	64
22	Structural Plasticity within the Barrel Cortex during Initial Phases of Whisker-Dependent Learning. Journal of Neuroscience, 2014, 34, 6078-6083.	1.7	51
23	A Non-canonical Feedback Circuit for Rapid Interactions between Somatosensory Cortices. Cell Reports, 2018, 23, 2718-2731.e6.	2.9	50
24	Bidirectional semantic priming in the attentional blink. Psychonomic Bulletin and Review, 2005, 12, 460-465.	1.4	47
25	The Importance of Accounting for Movement When Relating Neuronal Activity to Sensory and Cognitive Processes. Journal of Neuroscience, 2022, 42, 1375-1382.	1.7	42
26	Learning Recruits Higher Cortical Areas into Rapid Sensorimotor Streams. Neuron, 2018, 97, 1-2.	3.8	27
27	Cortical processing of flexible and context-dependent sensorimotor sequences. Nature, 2022, 603, 464-469.	13.7	26
28	Organization of Orientation-Specific Whisker Deflection Responses in Layer 2/3 of Mouse Somatosensory Cortex. Neuroscience, 2018, 368, 46-56.	1.1	23
29	Coding of whisker motion across the mouse face. ELife, 2019, 8, .	2.8	23
30	Locus coeruleus spiking differently correlates with S1 cortex activity and pupil diameter in a tactile detection task. ELife, 2021, 10, .	2.8	21
31	Of mice and monkeys: Somatosensory processing in two prominent animal models. Progress in Neurobiology, 2021, 201, 102008.	2.8	17
32	Spectral hallmark of auditory-tactile interactions in the mouse somatosensory cortex. Communications Biology, 2020, 3, 64.	2.0	15
33	Timing and contributions of pre-synaptic and post-synaptic parameter changes during unitary plasticity events at CA3-CA1 synapses. Synapse, 2007, 61, 664-678.	0.6	7
34	Active Sensing: The Rat's Nose Dances in Step with Whiskers, Head, and Breath. Current Biology, 2017, 27, R183-R185.	1.8	3
35	Layers 3 and 4 Neurons of the Bilateral Whisker-Barrel Cortex. Neuroscience, 2022, 494, 140-151.	1.1	3
36	Cortical adaptation and tactile perception. Nature Neuroscience, 2014, 17, 1434-1436.	7.1	1

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37	Environmental Enrichment Sharpens Sensory Acuity by Enhancing Information Coding in Barrel Cortex and Premotor Cortex. <i>ENeuro</i> , 2021, 8, ENEURO.0309-20.2021.	0.9	1
38	Pathway-Specific Activation in Sensorimotor Cortical Networks: Perspective on "Projection-Specific Activity of Layer 2/3 Neurons Imaged in Mouse Primary Somatosensory Barrel Cortex During a Whisker Detection Task" • <i>Function</i> , 2020, 1, zqaa011.	1.1	0
39	Cutaneous Proprioceptive Encoding of Body Kinematics. , 2020, , 61-66.		0