

Jerome A Lecoq

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,901
citations

304743

22
h-index

526287

27
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docs citations

42
times ranked

5118
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring Stimulus-Evoked Neurophysiological Differentiation in Distinct Populations of Neurons in Mouse Visual Cortex. <i>ENeuro</i> , 2022, 9, ENEURO.0280-21.2021.	1.9	5
2	Emergent reliability in sensory cortical coding and inter-area communication. <i>Nature</i> , 2022, 605, 713-721.	27.8	31
3	Relationship between simultaneously recorded spiking activity and fluorescence signal in GCaMP6 transgenic mice. <i>ELife</i> , 2021, 10, .	6.0	114
4	Reconciling functional differences in populations of neurons recorded with two-photon imaging and electrophysiology. <i>ELife</i> , 2021, 10, .	6.0	28
5	A neural circuit state change underlying skilled movements. <i>Cell</i> , 2021, 184, 3731-3747.e21.	28.9	45
6	A large-scale standardized survey of neural receptive fields in an entire column in mouse V1. <i>Journal of Vision</i> , 2021, 21, 2901.	0.3	1
7	Survey of spiking in the mouse visual system reveals functional hierarchy. <i>Nature</i> , 2021, 592, 86-92.	27.8	284
8	Removing independent noise in systems neuroscience data using DeepInterpolation. <i>Nature Methods</i> , 2021, 18, 1401-1408.	19.0	57
9	A large-scale standardized physiological survey reveals functional organization of the mouse visual cortex. <i>Nature Neuroscience</i> , 2020, 23, 138-151.	14.8	232
10	Fundamental bounds on the fidelity of sensory cortical coding. <i>Nature</i> , 2020, 580, 100-105.	27.8	146
11	VIP interneurons in mouse primary visual cortex selectively enhance responses to weak but specific stimuli. <i>ELife</i> , 2020, 9, .	6.0	49
12	Hierarchical organization of cortical and thalamic connectivity. <i>Nature</i> , 2019, 575, 195-202.	27.8	421
13	Wide. Fast. Deep: Recent Advances in Multiphoton Microscopy of <i>In Vivo</i> Neuronal Activity. <i>Journal of Neuroscience</i> , 2019, 39, 9042-9052.	3.6	79
14	Biological variation in the sizes, shapes and locations of visual cortical areas in the mouse. <i>PLoS ONE</i> , 2019, 14, e0213924.	2.5	16
15	Visual physiology of the layer 4 cortical circuit in silico. <i>PLoS Computational Biology</i> , 2018, 14, e1006535.	3.2	75
16	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. <i>Cell</i> , 2018, 174, 465-480.e22.	28.9	571
17	Neural ensemble dynamics underlying a long-term associative memory. <i>Nature</i> , 2017, 543, 670-675.	27.8	273
18	Aberrant Cortical Activity in Multiple GCaMP6-Expressing Transgenic Mouse Lines. <i>ENeuro</i> , 2017, 4, ENEURO.0207-17.2017.	1.9	221

#	ARTICLE	IF	CITATIONS
19	Long-Term Optical Access to an Estimated One Million Neurons in the Live Mouse Cortex. Cell Reports, 2016, 17, 3385-3394.	6.4	209
20	Visualizing mammalian brain area interactions by dual-axis two-photon calcium imaging. Nature Neuroscience, 2014, 17, 1825-1829.	14.8	132
21	An infrared fluorescent protein for deeper imaging. Nature Biotechnology, 2011, 29, 715-716.	17.5	46
22	What Does Local Functional Hyperemia Tell about Local Neuronal Activation?. Journal of Neuroscience, 2011, 31, 1579-1582.	3.6	23
23	Simultaneous two-photon imaging of oxygen and blood flow in deep cerebral vessels. Nature Medicine, 2011, 17, 893-898.	30.7	236
24	Cellular in vivo imaging reveals coordinated regulation of pituitary microcirculation and GH cell network function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4465-4470.	7.1	68
25	Odor-Evoked Oxygen Consumption by Action Potential and Synaptic Transmission in the Olfactory Bulb. Journal of Neuroscience, 2009, 29, 1424-1433.	3.6	69
26	Peripheral Adaptation Codes for High Odor Concentration in Glomeruli. Journal of Neuroscience, 2009, 29, 3067-3072.	3.6	69
27	The Relationship between Blood Flow and Neuronal Activity in the Rodent Olfactory Bulb. Journal of Neuroscience, 2007, 27, 6452-6460.	3.6	103
28	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain Cell Type Targeting and Functionality. SSRN Electronic Journal, 0, , .	0.4	2