

# 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  
g-index

42  
all docs

42  
docs citations

42  
times ranked

5118  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Hierarchical organization of cortical and thalamic connectivity. <i>Nature</i> , 2019, 575, 195-202.	27.8	421
3	Survey of spiking in the mouse visual system reveals functional hierarchy. <i>Nature</i> , 2021, 592, 86-92.	27.8	284
4	Neural ensemble dynamics underlying a long-term associative memory. <i>Nature</i> , 2017, 543, 670-675.	27.8	273
5	Simultaneous two-photon imaging of oxygen and blood flow in deep cerebral vessels. <i>Nature Medicine</i> , 2011, 17, 893-898.	30.7	236
6	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
7	Aberrant Cortical Activity in Multiple GCaMP6-Expressing Transgenic Mouse Lines. <i>ENeuro</i> , 2017, 4, ENEURO.0207-17.2017.	1.9	221
8	Long-Term Optical Access to an Estimated One Million Neurons in the Live Mouse Cortex. <i>Cell Reports</i> , 2016, 17, 3385-3394.	6.4	209
9	Fundamental bounds on the fidelity of sensory cortical coding. <i>Nature</i> , 2020, 580, 100-105.	27.8	146
10	Visualizing mammalian brain area interactions by dual-axis two-photon calcium imaging. <i>Nature Neuroscience</i> , 2014, 17, 1825-1829.	14.8	132
11	Relationship between simultaneously recorded spiking activity and fluorescence signal in GCaMP6 transgenic mice. <i>ELife</i> , 2021, 10, .	6.0	114
12	The Relationship between Blood Flow and Neuronal Activity in the Rodent Olfactory Bulb. <i>Journal of Neuroscience</i> , 2007, 27, 6452-6460.	3.6	103
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	Visual physiology of the layer 4 cortical circuit in silico. <i>PLoS Computational Biology</i> , 2018, 14, e1006535.	3.2	75
15	Odor-Evoked Oxygen Consumption by Action Potential and Synaptic Transmission in the Olfactory Bulb. <i>Journal of Neuroscience</i> , 2009, 29, 1424-1433.	3.6	69
16	Peripheral Adaptation Codes for High Odor Concentration in Glomeruli. <i>Journal of Neuroscience</i> , 2009, 29, 3067-3072.	3.6	69
17	Cellular in vivo imaging reveals coordinated regulation of pituitary microcirculation and GH cell network function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4465-4470.	7.1	68
18	Removing independent noise in systems neuroscience data using DeepInterpolation. <i>Nature Methods</i> , 2021, 18, 1401-1408.	19.0	57

#	ARTICLE	IF	CITATIONS
19	VIP interneurons in mouse primary visual cortex selectively enhance responses to weak but specific stimuli. <i>ELife</i> , 2020, 9, .	6.0	49
20	An infrared fluorescent protein for deeper imaging. <i>Nature Biotechnology</i> , 2011, 29, 715-716.	17.5	46
21	A neural circuit state change underlying skilled movements. <i>Cell</i> , 2021, 184, 3731-3747.e21.	28.9	45
22	Emergent reliability in sensory cortical coding and inter-area communication. <i>Nature</i> , 2022, 605, 713-721.	27.8	31
23	Reconciling functional differences in populations of neurons recorded with two-photon imaging and electrophysiology. <i>ELife</i> , 2021, 10, .	6.0	28
24	What Does Local Functional Hyperemia Tell about Local Neuronal Activation?. <i>Journal of Neuroscience</i> , 2011, 31, 1579-1582.	3.6	23
25	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
26	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
27	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain Cell Type Targeting and Functionality. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
28	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