Luc J Gentet

List of Publications by Year
in descending order

21	2,897	394421 19	713466 21
papers	citations	h-index	g-index

23	23	23	3749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatiotemporal Dynamics of Cortical Sensorimotor Integration in Behaving Mice. Neuron, 2007, 56, 907-923.	8.1	613
2	Unique functional properties of somatostatin-expressing GABAergic neurons in mouse barrel cortex. Nature Neuroscience, 2012, 15, 607-612.	14.8	416
3	Membrane Potential Dynamics of GABAergic Neurons in the Barrel Cortex of Behaving Mice. Neuron, 2010, 65, 422-435.	8.1	409
4	Direct Measurement of Specific Membrane Capacitance in Neurons. Biophysical Journal, 2000, 79, 314-320.	0.5	393
5	Neuroactive steroids and inhibitory neurotransmission: Mechanisms of action and physiological relevance. Neuroscience, 2006, 138, 821-829.	2.3	150
6	Whisking-Related Changes in Neuronal Firing and Membrane Potential Dynamics in the Somatosensory Thalamus of Awake Mice. Cell Reports, 2015, 13, 647-656.	6.4	121
7	InÂVivo Optogenetic Stimulation of Neocortical Excitatory Neurons Drives Brain-State-Dependent Inhibition. Current Biology, 2011, 21, 1593-1602.	3.9	92
8	Strong, reliable and precise synaptic connections between thalamic relay cells and neurones of the nucleus reticularis in juvenile rats. Journal of Physiology, 2003, 546, 801-811.	2.9	84
9	Dopamine Gates Action Potential Backpropagation in Midbrain Dopaminergic Neurons. Journal of Neuroscience, 2007, 27, 1892-1901.	3.6	77
10	GABA_A and glycine receptorâ€mediated transmission in rat lamina II neurones: relevance to the analgesic actions of neuroactive steroids. Journal of Physiology, 2007, 583, 1021-1040.	2.9	76
11	The in vitro and in vivo enantioselectivity of etomidate implicates the GABAA receptor in general anaesthesia. Neuropharmacology, 2003, 45, 57-71.	4.1	66
12	Functional diversity of supragranular GABAergic neurons in the barrel cortex. Frontiers in Neural Circuits, 2012, 6, 52.	2.8	64
13	Membrane Potential Dynamics of Spontaneous and Visually Evoked Gamma Activity in V1 of Awake Mice. PLoS Biology, 2016, 14, e1002383.	5.6	55
14	Cell-Type and State-Dependent Synchronization among Rodent Somatosensory, Visual, Perirhinal Cortex, and Hippocampus CA1. Frontiers in Systems Neuroscience, 2015, 9, 187.	2.5	47
15	Scale Lengths in Disk Surface Brightness as Probes of Dust Extinction in Three Spiral Galaxies: M51, NGC 3631, and NGC 4321. Astrophysical Journal, 1996, 467, 175.	4.5	46
16	Binding site stoichiometry and the effects of phosphorylation on human Î±1 homomeric glycine receptors. Journal of Physiology, 2002, 544, 97-106.	2.9	43
17	Electrophysiological characterization of synaptic connections between layer VI cortical cells and neurons of the nucleus reticularis thalami in juvenile rats. European Journal of Neuroscience, 2004, 19, 625-633.	2.6	42
18	Brain-State-Dependent Modulation of Neuronal Firing and Membrane Potential Dynamics in the Somatosensory Thalamus during Natural Sleep. Cell Reports, 2019, 26, 1443-1457.e5.	6.4	41

#	Article	IF	Citations
19	Hybrid intracerebral probe with integrated bare LED chips for optogenetic studies. Biomedical Microdevices, 2017, 19, 49.	2.8	36
20	Compact Optical Neural Probes With Up to 20 Integrated Thin-Film muLEDs Applied in Acute Optogenetic Studies. IEEE Transactions on Biomedical Engineering, 2020, 67, 2603-2615.	4.2	14
21	Vigilance and Behavioral State-Dependent Modulation of Cortical Neuronal Activity throughout the Sleep/Wake Cycle. Journal of Neuroscience, 2022, 42, 4852-4866.	3.6	10