

Nathalie L Rochefort

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,911
citations

361413

20
h-index

526287

27
g-index

33
all docs

33
docs citations

33
times ranked

3712
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendritic organization of sensory input to cortical neurons in vivo. <i>Nature</i> , 2010, 464, 1307-1312.	27.8	464
2	Functional mapping of single spines in cortical neurons in vivo. <i>Nature</i> , 2011, 475, 501-505.	27.8	360
3	Dendritic spines: from structure to <i>in vivo</i> function. <i>EMBO Reports</i> , 2012, 13, 699-708.	4.5	248
4	Sparsification of neuronal activity in the visual cortex at eye-opening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15049-15054.	7.1	240
5	Behavioral-state modulation of inhibition is context-dependent and cell type specific in mouse visual cortex. <i>ELife</i> , 2016, 5, .	6.0	211
6	High-fidelity multimode fibre-based endoscopy for deep brain in vivo imaging. <i>Light: Science and Applications</i> , 2018, 7, 92.	16.6	211
7	In vivo two-photon imaging of sensory-evoked dendritic calcium signals in cortical neurons. <i>Nature Protocols</i> , 2011, 6, 28-35.	12.0	156
8	Development of Direction Selectivity in Mouse Cortical Neurons. <i>Neuron</i> , 2011, 71, 425-432.	8.1	156
9	Staged decline of neuronal function in vivo in an animal model of Alzheimer's disease. <i>Nature Communications</i> , 2012, 3, 774.	12.8	116
10	Action and learning shape the activity of neuronal circuits in the visual cortex. <i>Current Opinion in Neurobiology</i> , 2018, 52, 88-97.	4.2	90
11	Reward Association Enhances Stimulus-Specific Representations in Primary Visual Cortex. <i>Current Biology</i> , 2020, 30, 1866-1880.e5.	3.9	83
12	Optimization of interneuron function by direct coupling of cell migration and axonal targeting. <i>Nature Neuroscience</i> , 2018, 21, 920-931.	14.8	72
13	LOTOS-based two-photon calcium imaging of dendritic spines in vivo. <i>Nature Protocols</i> , 2012, 7, 1818-1829.	12.0	67
14	A cerebellar-thalamocortical pathway drives behavioral context-dependent movement initiation. <i>Neuron</i> , 2021, 109, 2326-2338.e8.	8.1	63
15	The Impact of Visual Cues, Reward, and Motor Feedback on the Representation of Behaviorally Relevant Spatial Locations in Primary Visual Cortex. <i>Cell Reports</i> , 2018, 24, 2521-2528.	6.4	61
16	FISSA: A neuropil decontamination toolbox for calcium imaging signals. <i>Scientific Reports</i> , 2018, 8, 3493.	3.3	59
17	Reactivation of the Same Synapses during Spontaneous Up States and Sensory Stimuli. <i>Cell Reports</i> , 2013, 4, 31-39.	6.4	52
18	Neocortex saves energy by reducing coding precision during food scarcity. <i>Neuron</i> , 2022, 110, 280-296.e10.	8.1	43

#	ARTICLE	IF	CITATIONS
19	Calcium imaging in the living brain: prospects for molecular medicine. Trends in Molecular Medicine, 2008, 14, 389-399.	6.7	42
20	High and asymmetric somato-dendritic coupling of V1 layer 5 neurons independent of visual stimulation and locomotion. ELife, 2019, 8, .	6.0	39
21	Spatial navigation signals in rodent visual cortex. Current Opinion in Neurobiology, 2021, 67, 163-173.	4.2	27
22	Genetically encoded Ca ²⁺ sensors come of age. Nature Methods, 2008, 5, 761-762.	19.0	18
23	Defying Expectations: How Neurons Compute Prediction Errors in Visual Cortex. Neuron, 2020, 108, 1016-1019.	8.1	8
24	Chronic Two-Photon Calcium Imaging in the Visual Cortex of Awake Behaving Mice. Handbook of Behavioral Neuroscience, 2018, , 235-251.	0.7	3
25	Parametric Copula-GP model for analyzing multidimensional neuronal and behavioral relationships. PLoS Computational Biology, 2022, 18, e1009799.	3.2	2
26	Loss of Inhibition Gives Perspective: Developmental Apoptosis of GABAergic Chandelier Cells Primes Binocular Vision. Neuron, 2021, 109, 398-400.	8.1	0
27	Putting Visual Information Into Context. , 2018, , .		0