

Nigel J Emptage

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,945
citations

471509

17
h-index

454955

30
g-index

33
all docs

33
docs citations

33
times ranked

2512
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium Stores in Hippocampal Synaptic Boutons Mediate Short-Term Plasticity, Store-Operated Ca ²⁺ Entry, and Spontaneous Transmitter Release. <i>Neuron</i> , 2001, 29, 197-208.	8.1	487
2	Single Synaptic Events Evoke NMDA Receptor-Mediated Release of Calcium from Internal Stores in Hippocampal Dendritic Spines. <i>Neuron</i> , 1999, 22, 115-124.	8.1	400
3	Optical Quantal Analysis Reveals a Presynaptic Component of LTP at Hippocampal Schaffer-Associational Synapses. <i>Neuron</i> , 2003, 38, 797-804.	8.1	141
4	Activity-Dependent Exocytosis of Lysosomes Regulates the Structural Plasticity of Dendritic Spines. <i>Neuron</i> , 2017, 93, 132-146.	8.1	136
5	Subcellular spatial resolution achieved for deep-brain imaging in vivo using a minimally invasive multimode fiber. <i>Light: Science and Applications</i> , 2018, 7, 110.	16.6	118
6	Presynaptic NMDARs in the Hippocampus Facilitate Transmitter Release at Theta Frequency. <i>Neuron</i> , 2010, 68, 1109-1127.	8.1	111
7	Two sides to long-term potentiation: a view towards reconciliation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130154.	4.0	55
8	State-Dependent Mechanisms of LTP Expression Revealed by Optical Quantal Analysis. <i>Neuron</i> , 2006, 52, 649-661.	8.1	53
9	Fluorescent imaging in living systems. <i>Current Opinion in Pharmacology</i> , 2001, 1, 521-525.	3.5	49
10	Neuronal low-density lipoprotein receptor-related protein 1 binds and endocytoses prion fibrils via receptor cluster 4. <i>Journal of Cell Science</i> , 2010, 123, 246-255.	2.0	49
11	Hippocampal mGluR1-dependent long-term potentiation requires NAADP-mediated acidic store Ca ²⁺ signaling. <i>Science Signaling</i> , 2018, 11, .	3.6	41
12	The lysosome or lysosome-related organelle may serve as a Ca ²⁺ store in the boutons of hippocampal pyramidal cells. <i>Neuropharmacology</i> , 2007, 52, 126-135.	4.1	36
13	Synaptic Transmission Optimization Predicts Expression Loci of Long-Term Plasticity. <i>Neuron</i> , 2017, 96, 177-189.e7.	8.1	36
14	Intracellular Ca ²⁺ Release and Synaptic Plasticity: A Tale of Many Stores. <i>Neuroscientist</i> , 2019, 25, 208-226.	3.5	30
15	Glutamate is required for depression but not potentiation of long-term presynaptic function. <i>ELife</i> , 2017, 6, .	6.0	28
16	Fast volume-scanning light sheet microscopy reveals transient neuronal events. <i>Biomedical Optics Express</i> , 2018, 9, 2154.	2.9	25
17	Increased expression of dysbindin-1A leads to a selective deficit in NMDA receptor signaling in the hippocampus. <i>Neuropharmacology</i> , 2011, 61, 1345-1353.	4.1	21
18	Deconvolution for multimode fiber imaging: modeling of spatially variant PSF. <i>Biomedical Optics Express</i> , 2020, 11, 4759.	2.9	18

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19	Homeostatic Presynaptic Plasticity Is Specifically Regulated by P/Q-type Ca ²⁺ Channels at Mammalian Hippocampal Synapses. <i>Cell Reports</i> , 2017, 21, 341-350.	6.4	17
20	A compact light-sheet microscope for the study of the mammalian central nervous system. <i>Scientific Reports</i> , 2016, 6, 26317.	3.3	16
21	Long-term depression links amyloid- β^2 to the pathological hyperphosphorylation of tau. <i>Cell Reports</i> , 2021, 36, 109638.	6.4	16
22	Inhibition of lysosomal Ca ²⁺ signalling disrupts dendritic spine structure and impairs wound healing in neurons. <i>Communicative and Integrative Biology</i> , 2017, 10, e1344802.	1.4	13
23	Imaging synaptic plasticity. <i>Molecular Brain</i> , 2011, 4, 36.	2.6	12
24	A two-compartment model of synaptic computation and plasticity. <i>Molecular Brain</i> , 2020, 13, 79.	2.6	11
25	Optical Quantal Analysis Using Ca ²⁺ Indicators: A Robust Method for Assessing Transmitter Release Probability at Excitatory Synapses by Imaging Single Glutamate Release Events. <i>Frontiers in Synaptic Neuroscience</i> , 2019, 11, 5.	2.5	8
26	Compact and contactless reflectance confocal microscope for neurosurgery. <i>Biomedical Optics Express</i> , 2020, 11, 4772.	2.9	7
27	Neuronal Receptors Display Cytoskeleton-Independent Directed Motion on the Plasma Membrane. <i>IScience</i> , 2018, 10, 234-244.	4.1	4
28	A Novel Optical Quantal Analysis of Miniature Events Reveals Enhanced Frequency Following Amyloid β^2 Exposure. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 564081.	3.7	2
29	Biomarkers of Clinician Burnout. <i>Journal of General Internal Medicine</i> , 2021, , 1.	2.6	2
30	Repeated imaging through a multimode optical fiber using adaptive optics. <i>Biomedical Optics Express</i> , 2022, 13, 662.	2.9	2
31	Partial Suppression of Ca ²⁺ Function Prevents Synaptic and Behavioral Impairments in Alzheimer's Disease Models. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1