

Marco Canepari

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,817
citations

279798

23
h-index

289244

40
g-index

63
all docs

63
docs citations

63
times ranked

1916
citing authors

#	ARTICLE	IF	CITATIONS
1	Photochemical and pharmacological evaluation of 7-nitroindolyl- and 4-methoxy-7-nitroindolyl-amino acids as novel, fast caged neurotransmitters. <i>Journal of Neuroscience Methods</i> , 2001, 112, 29-42.	2.5	204
2	T-type Ca ²⁺ channels, SK2 channels and SERCAs gate sleep-related oscillations in thalamic dendrites. <i>Nature Neuroscience</i> , 2008, 11, 683-692.	14.8	187
3	Î±-Latrotoxin, Acting via Two Ca ²⁺ -dependent Pathways, Triggers Exocytosis of Two Pools of Synaptic Vesicles. <i>Journal of Biological Chemistry</i> , 2001, 276, 44695-44703.	3.4	79
4	Recent advances in patterned photostimulation for optogenetics. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 113001.	2.2	79
5	The conductance underlying the parallel fibre slow EPSP in rat cerebellar Purkinje neurones studied with photolytic release of L-glutamate. <i>Journal of Physiology</i> , 2001, 533, 765-772.	2.9	76
6	Experimental analysis of neuronal dynamics in cultured cortical networks and transitions between different patterns of activity. <i>Biological Cybernetics</i> , 1997, 77, 153-162.	1.3	75
7	Dendritic signals from rat hippocampal CA1 pyramidal neurons during coincident pre- and post-synaptic activity: a combined voltage- and calcium-imaging study. <i>Journal of Physiology</i> , 2007, 580, 463-484.	2.9	70
8	Imaging Inhibitory Synaptic Potentials Using Voltage Sensitive Dyes. <i>Biophysical Journal</i> , 2010, 98, 2032-2040.	0.5	63
9	Ca ²⁺ signaling by T-type Ca ²⁺ channels in neurons. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 1161-1172.	2.8	57
10	Ca ²⁺ Ion Permeability and Single-Channel Properties of the Metabotropic Slow EPSC of Rat Purkinje Neurons. <i>Journal of Neuroscience</i> , 2004, 24, 3563-3573.	3.6	53
11	Evidence for Protein Tyrosine Phosphatase, Tyrosine Kinase, and G-Protein Regulation of the Parallel Fiber Metabotropic Slow EPSC of Rat Cerebellar Purkinje Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 4066-4071.	3.6	50
12	Kinetic, pharmacological and activity-dependent separation of two Ca ²⁺ signalling pathways mediated by type 1 metabotropic glutamate receptors in rat Purkinje neurones. <i>Journal of Physiology</i> , 2006, 573, 65-82.	2.9	48
13	Combining Voltage and Calcium Imaging from Neuronal Dendrites. <i>Cellular and Molecular Neurobiology</i> , 2008, 28, 1079-1093.	3.3	48
14	Wide-Field and Two-Photon Imaging of Brain Activity with Voltage and Calcium-Sensitive Dyes. <i>Methods in Molecular Biology</i> , 2009, 489, 43-79.	0.9	45
15	Two-photon probes for in vivo multicolor microscopy of the structure and signals of brain cells. <i>Brain Structure and Function</i> , 2018, 223, 3011-3043.	2.3	42
16	Dendritic Spike Saturation of Endogenous Calcium Buffer and Induction of Postsynaptic Cerebellar LTP. <i>PLoS ONE</i> , 2008, 3, e4011.	2.5	39
17	High-resolution simultaneous voltage and Ca ²⁺ imaging. <i>Journal of Physiology</i> , 2011, 589, 489-494.	2.9	37
18	Imaging Submillisecond Membrane Potential Changes from Individual Regions of Single Axons, Dendrites and Spines. <i>Advances in Experimental Medicine and Biology</i> , 2015, 859, 57-101.	1.6	37

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19	Imaging neuronal calcium fluorescence at high spatio-temporal resolution. <i>Journal of Neuroscience Methods</i> , 1999, 87, 1-11.	2.5	34
20	Imaging Fast Calcium Currents beyond the Limitations of Electrode Techniques. <i>Biophysical Journal</i> , 2014, 107, 1280-1288.	0.5	34
21	Opto nongenetics inhibition of neuronal firing. <i>European Journal of Neuroscience</i> , 2019, 49, 6-26.	2.6	29
22	On the Induction of Postsynaptic Granule Cellâ€Purkinje Neuron LTP and LTD. <i>Cerebellum</i> , 2010, 9, 284-290.	2.5	28
23	Two Distinct Sets of Ca ²⁺ and K ⁺ Channels Are Activated at Different Membrane Potentials by the Climbing Fiber Synaptic Potential in Purkinje Neuron Dendrites. <i>Journal of Neuroscience</i> , 2019, 39, 1969-1981.	3.6	28
24	Neuregulin Signaling Is Dispensable for NMDA- and GABA _A -Receptor Expression in the Cerebellum In Vivo. <i>Journal of Neuroscience</i> , 2009, 29, 2404-2413.	3.6	27
25	Combining Membrane Potential Imaging with l-Glutamate or GABA Photorelease. <i>PLoS ONE</i> , 2011, 6, e24911.	2.5	26
26	Functional coupling of diverse voltage-gated Ca ²⁺ channels underlies high fidelity of fast dendritic Ca ²⁺ signals during burst firing. <i>Journal of Physiology</i> , 2016, 594, 967-983.	2.9	26
27	Optical measurement of physiological sodium currents in the axon initial segment. <i>Journal of Physiology</i> , 2021, 599, 49-66.	2.9	24
28	Imaging membrane potential changes from dendritic spines using computer-generated holography. <i>Neurophotonics</i> , 2017, 4, 031211.	3.3	23
29	Dynamics of Excitatory Transmitter Release: Analysis of Synaptic Responses in CA3 Hippocampal Neurons After Repetitive Stimulation of Afferent Fibers. <i>Journal of Neurophysiology</i> , 1998, 79, 1977-1988.	1.8	22
30	In vivo spatiotemporal control of voltage-gated ion channels by using photoactivatable peptidic toxins. <i>Nature Communications</i> , 2022, 13, 417.	12.8	22
31	GABA- and glutamate-mediated network activity in the hippocampus of neonatal and juvenile rats revealed by fast calcium imaging. <i>Cell Calcium</i> , 2000, 27, 25-33.	2.4	20
32	Firing of Hippocampal Neurogliaform Cells Induces Suppression of Synaptic Inhibition. <i>Journal of Neuroscience</i> , 2014, 34, 1280-1292.	3.6	20
33	An optical recording system based on a fast CCD sensor for biological imaging. <i>Cell Calcium</i> , 1999, 25, 115-123.	2.4	19
34	Combined optogenetics and voltage sensitive dye imaging at single cell resolution. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 311.	3.7	19
35	A generalised method to estimate the kinetics of fast Ca ²⁺ currents from Ca ²⁺ imaging experiments. <i>Journal of Neuroscience Methods</i> , 2016, 268, 66-77.	2.5	15
36	The Origin of Physiological Local mGluR1 Supralinear Ca ²⁺ Signals in Cerebellar Purkinje Neurons. <i>Journal of Neuroscience</i> , 2020, 40, 1795-1809.	3.6	15

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37	Using simultaneous voltage and calcium imaging to study fast Ca ²⁺ channels. Neurophotonics, 2015, 2, 021010.	3.3	13
38	CCD imaging of the electrical activity in the leech nervous system. European Biophysics Journal, 1996, 24, 359-370.	2.2	10
39	A novel multisite confocal system for rapid Ca ²⁺ imaging from submicron structures in brain slices. Journal of Biophotonics, 2018, 11, e201700197.	2.3	10
40	Light sources and cameras for standard <i>in vitro</i> membrane potential and high-speed ion imaging. Journal of Microscopy, 2013, 251, 5-13.	1.8	9
41	Synthesis by native chemical ligation and characterization of the scorpion toxin AmmTx3. Bioorganic and Medicinal Chemistry, 2019, 27, 247-253.	3.0	9
42	Effects of caffeine on the excitability and intracellular Ca ²⁺ transients of neonatal rat hypoglossal motoneurons in vitro. Neuroscience Letters, 2003, 346, 177-181.	2.1	8
43	Combining Calcium Imaging with Other Optical Techniques. Cold Spring Harbor Protocols, 2013, 2013, pdb.top066167.	0.3	6
44	Combining Ca ²⁺ and Membrane Potential Imaging in Single Neurons. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot073114-pdb.prot073114.	0.3	5
45	Combining Membrane Potential Imaging with Other Optical Techniques. Advances in Experimental Medicine and Biology, 2015, 859, 103-125.	1.6	4
46	Imaging Native Calcium Currents in Brain Slices. Advances in Experimental Medicine and Biology, 2020, 1131, 73-91.	1.6	4
47	Ultrafast Sodium Imaging of the Axon Initial Segment of Neurons in Mouse Brain Slices. Current Protocols, 2021, 1, e64.	2.9	3
48	Combined Voltage and Calcium Imaging and Signal Calibration. , 2010, , 43-52.		3
49	Combining Ca ²⁺ Imaging with -Glutamate Photorelease. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot073122-pdb.prot073122.	0.3	2
50	Economic and simple system to combine single-spot photolysis and whole-field fluorescence imaging. Journal of Biomedical Optics, 2013, 18, 060505.	2.6	2
51	Is Purkinje Neuron Hyperpolarisation Important for Cerebellar Synaptic Plasticity? A Retrospective and Prospective Analysis. Cerebellum, 2020, 19, 869-878.	2.5	2
52	Cal-520FF is the Present Optimal Ca ²⁺ Indicator for Ultrafast Ca ²⁺ Imaging and Optical Measurement of Ca ²⁺ Currents. Journal of Fluorescence, 2021, 31, 619-623.	2.5	2
53	Dopamine and action potential generation in the axon initial segment. Journal of Physiology, 2019, 597, 3251-3252.	2.9	1
54	Editorial: New Insights on Neuron and Astrocyte Function From Cutting-Edge Optical Techniques. Frontiers in Cellular Neuroscience, 2019, 13, 463.	3.7	1

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55	Characterization of the variability of glutamatergic synaptic responses to presynaptic trains in rat hippocampal pyramidal neurons. <i>Network: Computation in Neural Systems</i> , 2001, 12, 175-198.	3.6	1
56	<title>Intracellular gradients of free calcium visualized in sensory and neuronal cells by a high-performance fluorescence imaging system</title>. , 1999, , .		0
57	Dendritic spike induction of postsynaptic cerebellar LTP. <i>Nature Precedings</i> , 2008, , .	0.1	0
58	The self-regulation of neurotransmitter release. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 181.	3.7	0
59	Imaging Submillisecond Membrane Potential Changes from Individual Regions of Single Axons, Dendrites and Spines. , 2010, , 25-41.		0