Marco Canepari

List of Publications by Year
in descending order

59	1,817	279798	289244
papers	citations	23 h-index	40 g-index

63	63	63	1916
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In vivo spatiotemporal control of voltage-gated ion channels by using photoactivatable peptidic toxins. Nature Communications, 2022, 13, 417.	12.8	22
2	Optical measurement of physiological sodium currents in the axon initial segment. Journal of Physiology, 2021, 599, 49-66.	2.9	24
3	Cal-520FF is the Present Optimal Ca2+ Indicator for Ultrafast Ca2+ Imaging and Optical Measurement of Ca2+ Currents. Journal of Fluorescence, 2021, 31, 619-623.	2.5	2
4	Ultrafast Sodium Imaging of the Axon Initial Segment of Neurons in Mouse Brain Slices. Current Protocols, 2021, 1, e64.	2.9	3
5	Is Purkinje Neuron Hyperpolarisation Important for Cerebellar Synaptic Plasticity? A Retrospective and Prospective Analysis. Cerebellum, 2020, 19, 869-878.	2.5	2
6	The Origin of Physiological Local mGluR1 Supralinear Ca²⁺Signals in Cerebellar Purkinje Neurons. Journal of Neuroscience, 2020, 40, 1795-1809.	3.6	15
7	Imaging Native Calcium Currents in Brain Slices. Advances in Experimental Medicine and Biology, 2020, 1131, 73-91.	1.6	4
8	Dopamine and action potential generation in the axon initial segment. Journal of Physiology, 2019, 597, 3251-3252.	2.9	1
9	Editorial: New Insights on Neuron and Astrocyte Function From Cutting-Edge Optical Techniques. Frontiers in Cellular Neuroscience, 2019, 13, 463.	3.7	1
10	Two Distinct Sets of Ca²⁺and K⁺Channels Are Activated at Different Membrane Potentials by the Climbing Fiber Synaptic Potential in Purkinje Neuron Dendrites. Journal of Neuroscience, 2019, 39, 1969-1981.	3.6	28
11	Opto nongenetics inhibition of neuronal firing. European Journal of Neuroscience, 2019, 49, 6-26.	2.6	29
12	Synthesis by native chemical ligation and characterization of the scorpion toxin AmmTx3. Bioorganic and Medicinal Chemistry, 2019, 27, 247-253.	3.0	9
13	A novel multisite confocal system for rapid Ca²⁺ imaging from submicron structures in brain slices. Journal of Biophotonics, 2018, 11, e201700197.	2.3	10
14	Two-photon probes for in vivo multicolor microscopy of the structure and signals of brain cells. Brain Structure and Function, 2018, 223, 3011-3043.	2.3	42
15	Imaging membrane potential changes from dendritic spines using computer-generated holography. Neurophotonics, 2017, 4, 031211.	3.3	23
16	Recent advances in patterned photostimulation for optogenetics. Journal of Optics (United Kingdom), 2017, 19, 113001.	2.2	79
17	A generalised method to estimate the kinetics of fast Ca2+ currents from Ca2+ imaging experiments. Journal of Neuroscience Methods, 2016, 268, 66-77.	2.5	15
18	Functional coupling of diverse voltageâ€gated Ca²⁺ channels underlies high fidelity of fast dendritic Ca²⁺ signals during burst firing. Journal of Physiology, 2016, 594, 967-983.	2.9	26

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19	Using simultaneous voltage and calcium imaging to study fast Ca²⁺channels. Neurophotonics, 2015, 2, 021010.	3.3	13
20	Imaging Submillisecond Membrane Potential Changes from Individual Regions of Single Axons, Dendrites and Spines. Advances in Experimental Medicine and Biology, 2015, 859, 57-101.	1.6	37
21	Combining Membrane Potential Imaging with Other Optical Techniques. Advances in Experimental Medicine and Biology, 2015, 859, 103-125.	1.6	4
22	The self-regulation of neurotransmitter release. Frontiers in Cellular Neuroscience, 2014, 8, 181.	3.7	0
23	Firing of Hippocampal Neurogliaform Cells Induces Suppression of Synaptic Inhibition. Journal of Neuroscience, 2014, 34, 1280-1292.	3.6	20
24	Imaging Fast Calcium Currents beyond the Limitations of Electrode Techniques. Biophysical Journal, 2014, 107, 1280-1288.	0.5	34
25	Combined optogenetics and voltage sensitive dye imaging at single cell resolution. Frontiers in Cellular Neuroscience, 2014, 8, 311.	3.7	19
26	Combining Calcium Imaging with Other Optical Techniques. Cold Spring Harbor Protocols, 2013, 2013, pdb.top066167.	0.3	6
27	Combining Ca2+ and Membrane Potential Imaging in Single Neurons. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot073114-pdb.prot073114.	0.3	5
28	Light sources and cameras for standard in vitro membrane potential and highâ€speed ion imaging. Journal of Microscopy, 2013, 251, 5-13.	1.8	9
29	Combining Ca2+ Imaging with -Glutamate Photorelease. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot073122-pdb.prot073122.	0.3	2
30	Economic and simple system to combine single-spot photolysis and whole-field fluorescence imaging. Journal of Biomedical Optics, 2013, 18, 060505.	2.6	2
31	Combining Membrane Potential Imaging with l-Glutamate or GABA Photorelease. PLoS ONE, 2011, 6, e24911.	2.5	26
32	Highâ€resolution simultaneous voltage and Ca²⁺ imaging. Journal of Physiology, 2011, 589, 489-494.	2.9	37
33	On the Induction of Postsynaptic Granule Cellâ€“Purkinje Neuron LTP and LTD. Cerebellum, 2010, 9, 284-290.	2.5	28
34	Imaging Inhibitory Synaptic Potentials Using Voltage Sensitive Dyes. Biophysical Journal, 2010, 98, 2032-2040.	0.5	63
35	Combined Voltage and Calcium Imaging and Signal Calibration. , 2010, , 43-52.		3
36	Imaging Submillisecond Membrane Potential Changes from Individual Regions of Single Axons, Dendrites and Spines. , 2010, , 25-41.		0

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37	Neuregulin Signaling Is Dispensable for NMDA- and GABAA-Receptor Expression in the Cerebellum In Vivo. Journal of Neuroscience, 2009, 29, 2404-2413.	3.6	27
38	Ca2+ signaling by T-type Ca2+ channels in neurons. Pflugers Archiv European Journal of Physiology, 2009, 457, 1161-1172.	2.8	57
39	Wide-Field and Two-Photon Imaging of Brain Activity with Voltage and Calcium-Sensitive Dyes. Methods in Molecular Biology, 2009, 489, 43-79.	0.9	45
40	Combining Voltage and Calcium Imaging from Neuronal Dendrites. Cellular and Molecular Neurobiology, 2008, 28, 1079-1093.	3.3	48
41	T-type Ca2+ channels, SK2 channels and SERCAs gate sleep-related oscillations in thalamic dendrites. Nature Neuroscience, 2008, 11, 683-692.	14.8	187
42	Dendritic Spike Saturation of Endogenous Calcium Buffer and Induction of Postsynaptic Cerebellar LTP. PLoS ONE, 2008, 3, e4011.	2.5	39
43	Dendritic spike induction of postsynaptic cerebellar LTP. Nature Precedings, 2008, , .	0.1	0
44	Dendritic signals from rat hippocampal CA1 pyramidal neurons during coincident pre- and post-synaptic activity: a combined voltage- and calcium-imaging study. Journal of Physiology, 2007, 580, 463-484.	2.9	70
45	Kinetic, pharmacological and activity-dependent separation of two Ca2+signalling pathways mediated by type 1 metabotropic glutamate receptors in rat Purkinje neurones. Journal of Physiology, 2006, 573, 65-82.	2.9	48
46	Ca2+ Ion Permeability and Single-Channel Properties of the Metabotropic Slow EPSC of Rat Purkinje Neurons. Journal of Neuroscience, 2004, 24, 3563-3573.	3.6	53
47	Effects of caffeine on the excitability and intracellular Ca2+ transients of neonatal rat hypoglossal motoneurons in vitro. Neuroscience Letters, 2003, 346, 177-181.	2.1	8
48	Evidence for Protein Tyrosine Phosphatase, Tyrosine Kinase, and G-Protein Regulation of the Parallel Fiber Metabotropic Slow EPSC of Rat Cerebellar Purkinje Neurons. Journal of Neuroscience, 2003, 23, 4066-4071.	3.6	50
49	Photochemical and pharmacological evaluation of 7-nitroindolinyl-and 4-methoxy-7-nitroindolinyl-amino acids as novel, fast caged neurotransmitters. Journal of Neuroscience Methods, 2001, 112, 29-42.	2.5	204
50	The conductance underlying the parallel fibre slow EPSP in rat cerebellar Purkinje neurones studied with photolytic release of Lâ€glutamate. Journal of Physiology, 2001, 533, 765-772.	2.9	76
51	Î±-Latrotoxin, Acting via Two Ca2+-dependent Pathways, Triggers Exocytosis of Two Pools of Synaptic Vesicles. Journal of Biological Chemistry, 2001, 276, 44695-44703.	3.4	79
52	Characterization of the variability of glutamatergic synaptic responses to presynaptic trains in rat hippocampal pyramidal neurons. Network: Computation in Neural Systems, 2001, 12, 175-198.	3.6	1
53	GABA- and glutamate-mediated network activity in the hippocampus of neonatal and juvenile rats revealed by fast calcium imaging. Cell Calcium, 2000, 27, 25-33.	2.4	20
54	Imaging neuronal calcium fluorescence at high spatio-temporal resolution. Journal of Neuroscience Methods, 1999, 87, 1-11.	2.5	34

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55	An optical recording system based on a fast CCD sensor for biological imaging. Cell Calcium, 1999, 25, 115-123.	2.4	19
56	<title>Intracellular gradients of free calcium visualized in sensory and neuronal cells by a high-performance fluorescence imaging system</title>. , 1999, , .		0
57	Dynamics of Excitatory Transmitter Release: Analysis of Synaptic Responses in CA3 Hippocampal Neurons After Repetitive Stimulation of Afferent Fibers. Journal of Neurophysiology, 1998, 79, 1977-1988.	1.8	22
58	Experimental analysis of neuronal dynamics in cultured cortical networks and transitions between different patterns of activity. Biological Cybernetics, 1997, 77, 153-162.	1.3	75
59	CCD imaging of the electrical activity in the leech nervous system. European Biophysics Journal, 1996, 24, 359-370.	2.2	10