

Valentina Emiliani

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,538
citations

172207

29
h-index

214527

47
g-index

60
all docs

60
docs citations

60
times ranked

2929
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary divergence of locomotion in two related vertebrate species. <i>Cell Reports</i> , 2022, 38, 110585.	2.9	12
2	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	1.7	17
3	BiPOLES is an optogenetic tool developed for bidirectional dual-color control of neurons. <i>Nature Communications</i> , 2021, 12, 4527.	5.8	73
4	Scanless two-photon excitation with temporal focusing. <i>Nature Methods</i> , 2020, 17, 571-581.	9.0	80
5	Multiplexed temporally focused light shaping through a gradient index lens for precise in-depth optogenetic photostimulation. <i>Scientific Reports</i> , 2019, 9, 7603.	1.6	25
6	<i>In vivo</i> sub-millisecond two-photon optogenetics with temporally focused patterned light. <i>Journal of Neuroscience</i> , 2019, 39, 1785-18.	1.7	53
7	Compressive three-dimensional super-resolution microscopy with speckle-saturated fluorescence excitation. <i>Nature Communications</i> , 2019, 10, 1327.	5.8	39
8	ATP6AP2 variant impairs CNS development and neuronal survival to cause fulminant neurodegeneration. <i>Journal of Clinical Investigation</i> , 2019, 129, 2145-2162.	3.9	37
9	Towards circuit optogenetics. <i>Current Opinion in Neurobiology</i> , 2018, 50, 179-189.	2.0	74
10	Methods for Three-Dimensional All-Optical Manipulation of Neural Circuits. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 469.	1.8	25
11	Optimized Chronos sets the clock for optogenetic hearing restoration. <i>EMBO Journal</i> , 2018, 37, .	3.5	0
12	Computer-aided neurophysiology and imaging with open-source <i>PhysImage</i> . <i>Journal of Neurophysiology</i> , 2018, 120, 23-36.	0.9	5
13	Temperature Rise under Two-Photon Optogenetic Brain Stimulation. <i>Cell Reports</i> , 2018, 24, 1243-1253.e5.	2.9	77
14	Two-Photon Optogenetics by Computer-Generated Holography. <i>Neuromethods</i> , 2018, , 175-197.	0.2	13
15	Multiplexed temporally focused light shaping for high-resolution multi-cell targeting. <i>Optica</i> , 2018, 5, 1478.	4.8	42
16	Imaging membrane potential changes from dendritic spines using computer-generated holography. <i>Neurophotonics</i> , 2017, 4, 031211.	1.7	23
17	Submillisecond Optogenetic Control of Neuronal Firing with Two-Photon Holographic Photoactivation of Chronos. <i>Journal of Neuroscience</i> , 2017, 37, 10679-10689.	1.7	100
18	Recent advances in patterned photostimulation for optogenetics. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 113001.	1.0	79

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19	Temporally precise single-cell-resolution optogenetics. <i>Nature Neuroscience</i> , 2017, 20, 1796-1806.	7.1	227
20	Vortex-free phase profiles for uniform patterning with computer-generated holography. <i>Optics Express</i> , 2017, 25, 12640.	1.7	22
21	Two-Photon Holographic Stimulation of ReaChR. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 234.	1.8	63
22	Computer Generated Holography with Intensity-Graded Patterns. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 236.	1.8	17
23	Three-dimensional spatiotemporal focusing of holographic patterns. <i>Nature Communications</i> , 2016, 7, 11928.	5.8	114
24	Superresolution Imaging of Optical Vortices in a Speckle Pattern. <i>Physical Review Letters</i> , 2016, 116, 093904.	2.9	24
25	Superresolving dendritic spine morphology with STED microscopy under holographic photostimulation. <i>Neurophotonics</i> , 2016, 3, 041806.	1.7	6
26	Computer-generated holography enhances voltage dye fluorescence discrimination in adjacent neuronal structures. <i>Neurophotonics</i> , 2015, 2, 021007.	1.7	27
27	All-Optical Interrogation of Neural Circuits. <i>Journal of Neuroscience</i> , 2015, 35, 13917-13926.	1.7	320
28	Optogenetics and wave front shaping. , 2015, , .		0
29	Wave Front Shaping and Optogenetics. , 2015, , .		0
30	Fast Calcium Imaging with Optical Sectioning via HiLo Microscopy. <i>PLoS ONE</i> , 2015, 10, e0143681.	1.1	17
31	Interneurons and oligodendrocyte progenitors form a structured synaptic network in the developing neocortex. <i>ELife</i> , 2015, 4, .	2.8	76
32	A FIBERSCOPE FOR SPATIALLY SELECTIVE PHOTOACTIVATION AND FUNCTIONAL FLUORESCENCE IMAGING IN FREELY BEHAVING MICE. , 2015, , .		0
33	The kinetics of multibranch integration on the dendritic arbor of CA1 pyramidal neurons. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 127.	1.8	18
34	When can temporally focused excitation be axially shifted by dispersion?. <i>Optics Express</i> , 2014, 22, 7087.	1.7	14
35	Spatially Selective Holographic Photoactivation and Functional Fluorescence Imaging in Freely Behaving Mice with a Fiberscope. <i>Neuron</i> , 2014, 84, 1157-1169.	3.8	163
36	Cdc42 controls the dilation of the exocytotic fusion pore by regulating membrane tension. <i>Molecular Biology of the Cell</i> , 2014, 25, 3195-3209.	0.9	65

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37	Zero-order suppression for two-photon holographic excitation. <i>Optics Letters</i> , 2014, 39, 5953.	1.7	24
38	STED microscope with Spiral Phase Contrast. <i>Scientific Reports</i> , 2013, 3, 2050.	1.6	30
39	Emergence of Population Bursts from Simultaneous Activation of Small Subsets of preBötzing Complex Inspiratory Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 3332-3338.	1.7	70
40	Functional patterned multiphoton excitation deep inside scattering tissue. <i>Nature Photonics</i> , 2013, 7, 274-278.	15.6	103
41	Two-photon excitation in scattering media by spatiotemporally shaped beams and their application in optogenetic stimulation. <i>Biomedical Optics Express</i> , 2013, 4, 2869.	1.5	77
42	Two-photon optogenetics. <i>Progress in Brain Research</i> , 2012, 196, 119-143.	0.9	84
43	Reshaping the optical dimension in optogenetics. <i>Current Opinion in Neurobiology</i> , 2012, 22, 128-137.	2.0	60
44	Three-dimensional holographic photostimulation of the dendritic arbor. <i>Journal of Neural Engineering</i> , 2011, 8, 046002.	1.8	70
45	Three-dimensional imaging and photostimulation by remote-focusing and holographic light patterning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19504-19509.	3.3	143
46	Scanless two-photon excitation of channelrhodopsin-2. <i>Nature Methods</i> , 2010, 7, 848-854.	9.0	400
47	Holographic Photolysis for Multiple Cell Stimulation in Mouse Hippocampal Slices. <i>PLoS ONE</i> , 2010, 5, e9431.	1.1	48
48	Good shape photolysis. , 2009, , .		0
49	Temporal focusing with spatially modulated excitation. <i>Optics Express</i> , 2009, 17, 5391.	1.7	52
50	Holographic photolysis of caged neurotransmitters. <i>Nature Methods</i> , 2008, 5, 821-827.	9.0	236
51	Patterned two-photon illumination by spatiotemporal shaping of ultrashort pulses. <i>Optics Express</i> , 2008, 16, 22039.	1.7	140