

Valentina Emiliani

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,538
citations

172457

29
h-index

214800

47
g-index

60
all docs

60
docs citations

60
times ranked

2929
citing authors

#	ARTICLE	IF	CITATIONS
1	Scanless two-photon excitation of channelrhodopsin-2. <i>Nature Methods</i> , 2010, 7, 848-854.	19.0	400
2	All-Optical Interrogation of Neural Circuits. <i>Journal of Neuroscience</i> , 2015, 35, 13917-13926.	3.6	320
3	Holographic photolysis of caged neurotransmitters. <i>Nature Methods</i> , 2008, 5, 821-827.	19.0	236
4	Temporally precise single-cell-resolution optogenetics. <i>Nature Neuroscience</i> , 2017, 20, 1796-1806.	14.8	227
5	Spatially Selective Holographic Photoactivation and Functional Fluorescence Imaging in Freely Behaving Mice with a Fiberscope. <i>Neuron</i> , 2014, 84, 1157-1169.	8.1	163
6	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.	7.1	143
7	Patterned two-photon illumination by spatiotemporal shaping of ultrashort pulses. <i>Optics Express</i> , 2008, 16, 22039.	3.4	140
8	Three-dimensional spatiotemporal focusing of holographic patterns. <i>Nature Communications</i> , 2016, 7, 11928.	12.8	114
9	Functional patterned multiphoton excitation deep inside scattering tissue. <i>Nature Photonics</i> , 2013, 7, 274-278.	31.4	103
10	Submillisecond Optogenetic Control of Neuronal Firing with Two-Photon Holographic Photoactivation of Chronos. <i>Journal of Neuroscience</i> , 2017, 37, 10679-10689.	3.6	100
11	Two-photon optogenetics. <i>Progress in Brain Research</i> , 2012, 196, 119-143.	1.4	84
12	Scanless two-photon excitation with temporal focusing. <i>Nature Methods</i> , 2020, 17, 571-581.	19.0	80
13	Recent advances in patterned photostimulation for optogenetics. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 113001.	2.2	79
14	Two-photon excitation in scattering media by spatiotemporally shaped beams and their application in optogenetic stimulation. <i>Biomedical Optics Express</i> , 2013, 4, 2869.	2.9	77
15	Temperature Rise under Two-Photon Optogenetic Brain Stimulation. <i>Cell Reports</i> , 2018, 24, 1243-1253.e5.	6.4	77
16	Interneurons and oligodendrocyte progenitors form a structured synaptic network in the developing neocortex. <i>ELife</i> , 2015, 4, .	6.0	76
17	Towards circuit optogenetics. <i>Current Opinion in Neurobiology</i> , 2018, 50, 179-189.	4.2	74
18	BiPOLES is an optogenetic tool developed for bidirectional dual-color control of neurons. <i>Nature Communications</i> , 2021, 12, 4527.	12.8	73

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19	Three-dimensional holographic photostimulation of the dendritic arbor. <i>Journal of Neural Engineering</i> , 2011, 8, 046002.	3.5	70
20	Emergence of Population Bursts from Simultaneous Activation of Small Subsets of preBötzing Complex Inspiratory Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 3332-3338.	3.6	70
21	Cdc42 controls the dilation of the exocytotic fusion pore by regulating membrane tension. <i>Molecular Biology of the Cell</i> , 2014, 25, 3195-3209.	2.1	65
22	Two-Photon Holographic Stimulation of ReaChR. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 234.	3.7	63
23	Reshaping the optical dimension in optogenetics. <i>Current Opinion in Neurobiology</i> , 2012, 22, 128-137.	4.2	60
24	<i>In vivo</i> sub-millisecond two-photon optogenetics with temporally focused patterned light. <i>Journal of Neuroscience</i> , 2019, 39, 1785-18.	3.6	53
25	Temporal focusing with spatially modulated excitation. <i>Optics Express</i> , 2009, 17, 5391.	3.4	52
26	Holographic Photolysis for Multiple Cell Stimulation in Mouse Hippocampal Slices. <i>PLoS ONE</i> , 2010, 5, e9431.	2.5	48
27	Multiplexed temporally focused light shaping for high-resolution multi-cell targeting. <i>Optica</i> , 2018, 5, 1478.	9.3	42
28	Compressive three-dimensional super-resolution microscopy with speckle-saturated fluorescence excitation. <i>Nature Communications</i> , 2019, 10, 1327.	12.8	39
29	ATP6AP2 variant impairs CNS development and neuronal survival to cause fulminant neurodegeneration. <i>Journal of Clinical Investigation</i> , 2019, 129, 2145-2162.	8.2	37
30	STED microscope with Spiral Phase Contrast. <i>Scientific Reports</i> , 2013, 3, 2050.	3.3	30
31	Computer-generated holography enhances voltage dye fluorescence discrimination in adjacent neuronal structures. <i>Neurophotonics</i> , 2015, 2, 021007.	3.3	27
32	Methods for Three-Dimensional All-Optical Manipulation of Neural Circuits. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 469.	3.7	25
33	Multiplexed temporally focused light shaping through a gradient index lens for precise in-depth optogenetic photostimulation. <i>Scientific Reports</i> , 2019, 9, 7603.	3.3	25
34	Zero-order suppression for two-photon holographic excitation. <i>Optics Letters</i> , 2014, 39, 5953.	3.3	24
35	Superresolution Imaging of Optical Vortices in a Speckle Pattern. <i>Physical Review Letters</i> , 2016, 116, 093904.	7.8	24
36	Imaging membrane potential changes from dendritic spines using computer-generated holography. <i>Neurophotonics</i> , 2017, 4, 031211.	3.3	23

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37	Vortex-free phase profiles for uniform patterning with computer-generated holography. Optics Express, 2017, 25, 12640.	3.4	22
38	The kinetics of multibranch integration on the dendritic arbor of CA1 pyramidal neurons. Frontiers in Cellular Neuroscience, 2014, 8, 127.	3.7	18
39	Computer Generated Holography with Intensity-Graded Patterns. Frontiers in Cellular Neuroscience, 2016, 10, 236.	3.7	17
40	Fast Calcium Imaging with Optical Sectioning via HiLo Microscopy. PLoS ONE, 2015, 10, e0143681.	2.5	17
41	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. Neurophotonics, 2022, 9, 013001.	3.3	17
42	When can temporally focused excitation be axially shifted by dispersion?. Optics Express, 2014, 22, 7087.	3.4	14
43	Two-Photon Optogenetics by Computer-Generated Holography. Neuromethods, 2018, , 175-197.	0.3	13
44	Evolutionary divergence of locomotion in two related vertebrate species. Cell Reports, 2022, 38, 110585.	6.4	12
45	Superresolving dendritic spine morphology with STED microscopy under holographic photostimulation. Neurophotonics, 2016, 3, 041806.	3.3	6
46	Computer-aided neurophysiology and imaging with open-source <i>PhyslImage</i>. Journal of Neurophysiology, 2018, 120, 23-36.	1.8	5
47	Good shape photolysis. , 2009, , .		0
48	Optogenetics and wave front shaping. , 2015, , .		0
49	Wave Front Shaping and Optogenetics. , 2015, , .		0
50	Optimized Chronos sets the clock for optogenetic hearing restoration. EMBO Journal, 2018, 37, .	7.8	0
51	A FIBERSCOPE FOR SPATIALLY SELECTIVE PHOTOACTIVATION AND FUNCTIONAL FLUORESCENCE IMAGING IN FREELY BEHAVING MICE. , 2015, , .		0