

Eirini Papagiakoumou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

1,587
citations

21
h-index

39
g-index

53
ext. papers

2,037
ext. citations

7.5
avg, IF

4.64
L-index

#	Paper	IF	Citations
41	BiPOLES is an optogenetic tool developed for bidirectional dual-color control of neurons. <i>Nature Communications</i> , 2021 , 12, 4527	17.4	21
40	Scanless two-photon excitation with temporal focusing. <i>Nature Methods</i> , 2020 , 17, 571-581	21.6	31
39	Multiplexed temporally focused light shaping through a gradient index lens for precise in-depth optogenetic photostimulation. <i>Scientific Reports</i> , 2019 , 9, 7603	4.9	10
38	Submillisecond Two-Photon Optogenetics with Temporally Focused Patterned Light. <i>Journal of Neuroscience</i> , 2019 , 39, 3484-3497	6.6	27
37	Towards circuit optogenetics. <i>Current Opinion in Neurobiology</i> , 2018 , 50, 179-189	7.6	36
36	Temperature Rise under Two-Photon Optogenetic Brain Stimulation. <i>Cell Reports</i> , 2018 , 24, 1243-1253.e50.6	5.6	41
35	Multiplexed temporally focused light shaping for high-resolution multi-cell targeting. <i>Optica</i> , 2018 , 5, 1478	8.6	22
34	Two-Photon Optogenetics by Computer-Generated Holography. <i>NeuroMethods</i> , 2018 , 175-197	0.4	6
33	Methods for Three-Dimensional All-Optical Manipulation of Neural Circuits. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 469	6.1	13
32	Computer-aided neurophysiology and imaging with open-source PhysImage. <i>Journal of Neurophysiology</i> , 2018 , 120, 23-36	3.2	4
31	Submillisecond Optogenetic Control of Neuronal Firing with Two-Photon Holographic Photoactivation of Chronos. <i>Journal of Neuroscience</i> , 2017 , 37, 10679-10689	6.6	64
30	Recent advances in patterned photostimulation for optogenetics. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 113001	1.7	38
29	Temporally precise single-cell-resolution optogenetics. <i>Nature Neuroscience</i> , 2017 , 20, 1796-1806	25.5	134
28	Two-Photon Holographic Stimulation of ReaChR. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 234	6.1	44
27	Three-dimensional spatiotemporal focusing of holographic patterns. <i>Nature Communications</i> , 2016 , 7, 11928	17.4	77
26	Computer-generated holography enhances voltage dye fluorescence discrimination in adjacent neuronal structures. <i>NeuroPhotonics</i> , 2015 , 2, 021007	3.9	21
25	Zero-order suppression for two-photon holographic excitation. <i>Optics Letters</i> , 2014 , 39, 5953-6	3	19

24	When can temporally focused excitation be axially shifted by dispersion?. <i>Optics Express</i> , 2014 , 22, 7087-98	3.8	12
23	Optical developments for optogenetics. <i>Biology of the Cell</i> , 2013 , 105, 443-64	3.5	40
22	Functional patterned multiphoton excitation deep inside scattering tissue. <i>Nature Photonics</i> , 2013 , 7, 274-278	33.9	85
21	Two-photon excitation in scattering media by spatiotemporally shaped beams and their application in optogenetic stimulation. <i>Biomedical Optics Express</i> , 2013 , 4, 2869-79	3.5	52
20	Two-photon optogenetics. <i>Progress in Brain Research</i> , 2012 , 196, 119-43	2.9	73
19	Three-dimensional holographic photostimulation of the dendritic arbor. <i>Journal of Neural Engineering</i> , 2011 , 8, 046002	5	61
18	Scanless two-photon excitation of channelrhodopsin-2. <i>Nature Methods</i> , 2010 , 7, 848-54	21.6	304
17	Holographic photolysis for multiple cell stimulation in mouse hippocampal slices. <i>PLoS ONE</i> , 2010 , 5, e9431	3.7	38
16	Temporal focusing with spatially modulated excitation. <i>Optics Express</i> , 2009 , 17, 5391-401	3.3	41
15	Patterned two-photon illumination by spatiotemporal shaping of ultrashort pulses. <i>Optics Express</i> , 2008 , 16, 22039-47	3.3	107
14	Pulsed infrared radiation transmission through chalcogenide glass fibers. <i>Optics Communications</i> , 2007 , 276, 80-86	2	13
13	Passive optical separation within a nondiffracting light beam. <i>Journal of Biomedical Optics</i> , 2007 , 12, 054017	3.5	16
12	Evaluation of trapping efficiency of optical tweezers by dielectrophoresis. <i>Journal of Biomedical Optics</i> , 2006 , 11, 014035	3.5	10
11	Light-induced cell separation in a tailored optical landscape. <i>Applied Physics Letters</i> , 2005 , 87, 123901	3.4	73
10	Dentin mid-infrared laser ablation at various lasing parameters 2005 , 5630, 675		
9	Pulsed HF laser ablation of dentin 2005 ,		1
8	The influence of the Q-switched and free-running Er:YAG laser beam characteristics on the ablation of root canal dentine. <i>Applied Surface Science</i> , 2004 , 233, 234-243	6.7	10
7	Q-switched versus free-running Er:YAG laser efficacy on the root canal walls of human teeth: a SEM study. <i>Journal of Endodontics</i> , 2004 , 30, 585-8	4.7	15

6	Q-switched Er:YAG radiation transmission through medical COP-coated silver hollow glass waveguide 2003 ,		1
5	Determination of the maximum capabilities of high-power oxide glass fibers in the mid-infrared region for medical applications 2003 ,		1
4	Comparative evaluation of HP oxide glass fibers for Q-switched and free-running Er:YAG laser beam propagation. <i>Optics Communications</i> , 2003 , 220, 151-160	2	12
3	Q-switched Er:YAG radiation transmission through an oxide glass fiber for medical applications 2002 ,		2
2	Multiplexed temporally focused light shaping for high-resolution multi-cell targeting		2
1	Parallel holographic illumination enables sub-millisecond two-photon optogenetic activation in mouse visual cortex in vivo		5