Eirini Papagiakoumou

List of Publications by Citations

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	Scanless two-photon excitation of channelrhodopsin-2. *Nature Methods*, **2010**, 7, 848-54	21.6	304
40	Temporally precise single-cell-resolution optogenetics. *Nature Neuroscience*, **2017**, 20, 1796-1806	25.5	134
39	Patterned two-photon illumination by spatiotemporal shaping of ultrashort pulses. *Optics Express*, **2008**, 16, 22039-47	3.3	107
38	Functional patterned multiphoton excitation deep inside scattering tissue. *Nature Photonics*, **2013**, 7, 274-278	33.9	85
37	Three-dimensional spatiotemporal focusing of holographic patterns. *Nature Communications*, **2016**, 7, 11928	17.4	77
36	Two-photon optogenetics. *Progress in Brain Research*, **2012**, 196, 119-43	2.9	73
35	Light-induced cell separation in a tailored optical landscape. *Applied Physics Letters*, **2005**, 87, 123901	3.4	73
34	Submillisecond Optogenetic Control of Neuronal Firing with Two-Photon Holographic Photoactivation of Chronos. *Journal of Neuroscience*, **2017**, 37, 10679-10689	6.6	64
33	Three-dimensional holographic photostimulation of the dendritic arbor. *Journal of Neural Engineering*, **2011**, 8, 046002	5	61
32	Two-photon excitation in scattering media by spatiotemporally shaped beams and their application in optogenetic stimulation. *Biomedical Optics Express*, **2013**, 4, 2869-79	3.5	52
31	Two-Photon Holographic Stimulation of ReaChR. *Frontiers in Cellular Neuroscience*, **2016**, 10, 234	6.1	44
30	Temperature Rise under Two-Photon Optogenetic Brain Stimulation. *Cell Reports*, **2018**, 24, 1243-1253.e5	10.6	41
29	Temporal focusing with spatially modulated excitation. *Optics Express*, **2009**, 17, 5391-401	3.3	41
28	Optical developments for optogenetics. *Biology of the Cell*, **2013**, 105, 443-64	3.5	40
27	Recent advances in patterned photostimulation for optogenetics. *Journal of Optics (United Kingdom)*, **2017**, 19, 113001	1.7	38
26	Holographic photolysis for multiple cell stimulation in mouse hippocampal slices. *PLoS ONE*, **2010**, 5, e9431	3.7	38
25	Towards circuit optogenetics. *Current Opinion in Neurobiology*, **2018**, 50, 179-189	7.6	36

24	Scanless two-photon excitation with temporal focusing. *Nature Methods*, **2020**, 17, 571-581	21.6	31
23	Submillisecond Two-Photon Optogenetics with Temporally Focused Patterned Light. *Journal of Neuroscience*, **2019**, 39, 3484-3497	6.6	27
22	Multiplexed temporally focused light shaping for high-resolution multi-cell targeting. *Optica*, **2018**, 5, 1478	8.6	22
21	Computer-generated holography enhances voltage dye fluorescence discrimination in adjacent neuronal structures. *Neurophotonics*, **2015**, 2, 021007	3.9	21
20	BiPOLES is an optogenetic tool developed for bidirectional dual-color control of neurons. *Nature Communications*, **2021**, 12, 4527	17.4	21
19	Zero-order suppression for two-photon holographic excitation. *Optics Letters*, **2014**, 39, 5953-6	3	19
18	Passive optical separation within a anondiffractingalight beam. *Journal of Biomedical Optics*, **2007**, 12, 054017	3.5	16
17	Q-switched versus free-running Er:YAG laser efficacy on the root canal walls of human teeth: a SEM study. *Journal of Endodontics*, **2004**, 30, 585-8	4.7	15
16	Pulsed infrared radiation transmission through chalcogenide glass fibers. *Optics Communications*, **2007**, 276, 80-86	2	13
15	Methods for Three-Dimensional All-Optical Manipulation of Neural Circuits. *Frontiers in Cellular Neuroscience*, **2018**, 12, 469	6.1	13
14	When can temporally focused excitation be axially shifted by dispersion?. *Optics Express*, **2014**, 22, 7087-98	3.5	12
13	Comparative evaluation of HP oxide glass fibers for Q-switched and free-running Er:YAG laser beam propagation. *Optics Communications*, **2003**, 220, 151-160	2	12
12	Multiplexed temporally focused light shaping through a gradient index lens for precise in-depth optogenetic photostimulation. *Scientific Reports*, **2019**, 9, 7603	4.9	10
11	Evaluation of trapping efficiency of optical tweezers by dielectrophoresis. *Journal of Biomedical Optics*, **2006**, 11, 014035	3.5	10
10	The influence of the Q-switched and free-running Er:YAG laser beam characteristics on the ablation of root canal dentine. *Applied Surface Science*, **2004**, 233, 234-243	6.7	10
9	Two-Photon Optogenetics by Computer-Generated Holography. *Neuromethods*, **2018**, 175-197	0.4	6
8	Parallel holographic illumination enables sub-millisecond two-photon optogenetic activation in mouse visual cortex in vivo		5
7	Computer-aided neurophysiology and imaging with open-source PhysImage. *Journal of Neurophysiology*, **2018**, 120, 23-36	3.2	4

6	Q-switched Er:YAG radiation transmission through an oxide glass fiber for medical applications **2002**,	2
5	Multiplexed temporally focused light shaping for high-resolution multi-cell targeting	2
4	Q-switched Er:YAG radiation transmission through medical COP-coated silver hollow glass waveguide **2003**,	1
3	Determination of the maximum capabilities of high-power oxide glass fibers in the mid-infrared region for medical applications **2003**,	1
2	Pulsed HF laser ablation of dentin **2005**,	1
1	Dentin mid-infrared laser ablation at various lasing parameters **2005**, 5630, 675	