

Vincent R Daria

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9418232/publications.pdf>

Version: 2024-02-01

39
papers

1,491
citations

471509

17
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

1570
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological measurement beyond the quantum limit. Nature Photonics, 2013, 7, 229-233.	31.4	411
2	Fully dynamic multiple-beam optical tweezers. Optics Express, 2002, 10, 597.	3.4	231
3	Interactive light-driven and parallel manipulation of inhomogeneous particles. Optics Express, 2002, 10, 1550.	3.4	122
4	Interactive optical trapping shows that confinement is a determinant of growth in a mixed yeast culture. FEMS Microbiology Letters, 2005, 245, 155-159.	1.8	86
5	Real-time interactive optical micromanipulation of a mixture of high- and low-index particles. Optics Express, 2004, 12, 1417.	3.4	76
6	Engineering Highly Interconnected Neuronal Networks on Nanowire Scaffolds. Nano Letters, 2017, 17, 3369-3375.	9.1	58
7	Optical twists in phase and amplitude. Optics Express, 2011, 19, 476.	3.4	52
8	Dynamically reconfigurable optical lattices. Optics Express, 2005, 13, 1384.	3.4	49
9	Subdiffraction-Limited Quantum Imaging within a Living Cell. Physical Review X, 2014, 4, .	8.9	46
10	TRPA1 expression and its functional activation in rodent cortex. Open Biology, 2017, 7, 160314.	3.6	45
11	Shack-Hartmann multiple-beam optical tweezers. Optics Express, 2003, 11, 208.	3.4	36
12	Simultaneous multi-site two-photon photostimulation in three dimensions. Journal of Biophotonics, 2012, 5, 745-753.	2.3	35
13	Four-dimensional multi-site photolysis of caged neurotransmitters. Frontiers in Cellular Neuroscience, 2013, 7, 231.	3.7	31
14	Dynamic formation of optically trapped microstructure arrays for biosensor applications. Biosensors and Bioelectronics, 2004, 19, 1439-1444.	10.1	27
15	Dynamic optical manipulation of colloidal systems using a spatial light modulator. Journal of Modern Optics, 2003, 50, 1601-1614.	1.3	22
16	Implementing the generalized phase-contrast method in a planar-integrated micro-optics platform. Optics Letters, 2002, 27, 945.	3.3	21
17	Phase-only optical decryption in a planar integrated micro-optics system. Optical Engineering, 2004, 43, 2223.	1.0	20
18	Efficient multi-site two-photon functional imaging of neuronal circuits. Biomedical Optics Express, 2016, 7, 5325.	2.9	16

#	ARTICLE	IF	CITATIONS
19	Improved two-photon imaging of living neurons in brain tissue through temporal gating. <i>Biomedical Optics Express</i> , 2015, 6, 4027.	2.9	15
20	A compact holographic projector module for high-resolution 3D multi-site two-photon photostimulation. <i>PLoS ONE</i> , 2019, 14, e0210564.	2.5	12
21	Light-neuron interactions: key to understanding the brain. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 023002.	2.2	11
22	Using light to probe neuronal function. <i>Europhysics Letters</i> , 2015, 111, 38001.	2.0	9
23	Enhanced Depth Penetration in Imaging of Turbid Biological Samples by Two-Photon Fluorescence Microscopy. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L959-L961.	1.5	7
24	Comment on Interferometric phase-only optical encryption system that uses a reference wave. <i>Optics Letters</i> , 2003, 28, 1075.	3.3	6
25	Low-cost photo-responsive nanocarriers by one-step functionalization of flame-made titania agglomerates with Lysine. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1677-1687.	5.8	6
26	Improving Focal Photostimulation of Cortical Neurons with Pre-derived Wavefront Correction. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 105.	3.7	6
27	Sensing refractive index gradients along dielectric nanopillar metasurfaces. <i>Optics Express</i> , 2020, 28, 31594.	3.4	6
28	Diamond nanopillar arrays for quantum microscopy of neuronal signals. <i>Neurophotonics</i> , 2020, 7, 1.	3.3	5
29	Holographic microscope and its biological application. <i>Neuroscience Research</i> , 2022, 179, 57-64.	1.9	5
30	Analyzing Branch-specific Dendritic Spikes Using an Ultrafast Laser Scalpel. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	3
31	To BCVA, or not to BCVA, that is the question. <i>Clinical and Experimental Ophthalmology</i> , 2017, 45, 437-439.	2.6	2
32	Localized two-photon photoswitching of Optovin in rat cortical neurons. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 254001.	2.8	2
33	Spatio-temporal parameters for optical probing of neuronal activity. <i>Biophysical Reviews</i> , 2021, 13, 13-33.	3.2	2
34	Dynamic optical manipulation of colloidal systems using a spatial light modulator. <i>Journal of Modern Optics</i> , 2003, 50, 1601-1614.	1.3	2
35	MODELING NEURONAL RESPONSE TO SIMULTANEOUS AND SEQUENTIAL MULTI-SITE SYNAPTIC STIMULATION. <i>International Journal of Modern Physics Conference Series</i> , 2012, 17, 1-8.	0.7	1
36	FITC-Functionalized TiO ₂ Nanoparticles for Simultaneous Neuron Imaging and in Cell Photocatalysis. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1694, 13.	0.1	0

#	ARTICLE	IF	CITATIONS
37	Multi-site optical recording of neuronal activity with complex light patterns. , 2019, , .		0
38	Holographic optical probing of the computing properties of single neurons. , 2021, , .		0
39	Holographic photonic neuron. Neuromorphic Computing and Engineering, 0, , .	5.9	0