

Vincent R Daria

List of Publications by Year in descending order

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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	Holographic microscope and its biological application. <i>Neuroscience Research</i> , 2022, 179, 57-64.	1.9	5
2	Spatio-temporal parameters for optical probing of neuronal activity. <i>Biophysical Reviews</i> , 2021, 13, 13-33.	3.2	2
3	Holographic optical probing of the computing properties of single neurons. , 2021, , .		0
4	Analyzing Branch-specific Dendritic Spikes Using an Ultrafast Laser Scalpel. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	3
5	Diamond nanopillar arrays for quantum microscopy of neuronal signals. <i>Neurophotonics</i> , 2020, 7, 1.	3.3	5
6	Sensing refractive index gradients along dielectric nanopillar metasurfaces. <i>Optics Express</i> , 2020, 28, 31594.	3.4	6
7	A compact holographic projector module for high-resolution 3D multi-site two-photon photostimulation. <i>PLoS ONE</i> , 2019, 14, e0210564.	2.5	12
8	Localized two-photon photoswitching of Optovin in rat cortical neurons. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 254001.	2.8	2
9	Multi-site optical recording of neuronal activity with complex light patterns. , 2019, , .		0
10	Light-neuron interactions: key to understanding the brain. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 023002.	2.2	11
11	Engineering Highly Interconnected Neuronal Networks on Nanowire Scaffolds. <i>Nano Letters</i> , 2017, 17, 3369-3375.	9.1	58
12	TRPA1 expression and its functional activation in rodent cortex. <i>Open Biology</i> , 2017, 7, 160314.	3.6	45
13	To BCVA, or not to BCVA, that is the question. <i>Clinical and Experimental Ophthalmology</i> , 2017, 45, 437-439.	2.6	2
14	Improving Focal Photostimulation of Cortical Neurons with Pre-derived Wavefront Correction. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 105.	3.7	6
15	Efficient multi-site two-photon functional imaging of neuronal circuits. <i>Biomedical Optics Express</i> , 2016, 7, 5325.	2.9	16
16	Improved two-photon imaging of living neurons in brain tissue through temporal gating. <i>Biomedical Optics Express</i> , 2015, 6, 4027.	2.9	15
17	Low-cost photo-responsive nanocarriers by one-step functionalization of flame-made titania agglomerates with<sc>L</sc>-Lysine. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1677-1687.	5.8	6
18	Using light to probe neuronal function. <i>Europhysics Letters</i> , 2015, 111, 38001.	2.0	9

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19	FITC-Functionalized TiO ₂ Nanoparticles for Simultaneous Neuron Imaging and in Cell Photocatalysis. Materials Research Society Symposia Proceedings, 2014, 1694, 13.	0.1	0
20	Subdiffraction-Limited Quantum Imaging within a Living Cell. Physical Review X, 2014, 4, .	8.9	46
21	Biological measurement beyond the quantum limit. Nature Photonics, 2013, 7, 229-233.	31.4	411
22	Four-dimensional multi-site photolysis of caged neurotransmitters. Frontiers in Cellular Neuroscience, 2013, 7, 231.	3.7	31
23	MODELING NEURONAL RESPONSE TO SIMULTANEOUS AND SEQUENTIAL MULTI-SITE SYNAPTIC STIMULATION. International Journal of Modern Physics Conference Series, 2012, 17, 1-8.	0.7	1
24	Simultaneous multi-site two-photon photostimulation in three dimensions. Journal of Biophotonics, 2012, 5, 745-753.	2.3	35
25	Optical twists in phase and amplitude. Optics Express, 2011, 19, 476.	3.4	52
26	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
27	Dynamically reconfigurable optical lattices. Optics Express, 2005, 13, 1384.	3.4	49
28	Phase-only optical decryption in a planar integrated micro-optics system. Optical Engineering, 2004, 43, 2223.	1.0	20
29	Dynamic formation of optically trapped microstructure arrays for biosensor applications. Biosensors and Bioelectronics, 2004, 19, 1439-1444.	10.1	27
30	Real-time interactive optical micromanipulation of a mixture of high- and low-index particles. Optics Express, 2004, 12, 1417.	3.4	76
31	Dynamic optical manipulation of colloidal systems using a spatial light modulator. Journal of Modern Optics, 2003, 50, 1601-1614.	1.3	22
32	Comment on Interferometric phase-only optical encryption system that uses a reference wave. Optics Letters, 2003, 28, 1075.	3.3	6
33	Shack-Hartmann multiple-beam optical tweezers. Optics Express, 2003, 11, 208.	3.4	36
34	Dynamic optical manipulation of colloidal systems using a spatial light modulator. Journal of Modern Optics, 2003, 50, 1601-1614.	1.3	2
35	Implementing the generalized phase-contrast method in a planar-integrated micro-optics platform. Optics Letters, 2002, 27, 945.	3.3	21
36	Fully dynamic multiple-beam optical tweezers. Optics Express, 2002, 10, 597.	3.4	231

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37	Interactive light-driven and parallel manipulation of inhomogeneous particles. Optics Express, 2002, 10, 1550.	3.4	122
38	Enhanced Depth Penetration in Imaging of Turbid Biological Samples by Two-Photon Fluorescence Microscopy. Japanese Journal of Applied Physics, 1998, 37, L959-L961.	1.5	7
39	Holographic photonic neuron. Neuromorphic Computing and Engineering, 0, , .	5.9	0