Alipasha Vaziri

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1603361/publications.pdf

Version: 2024-02-01

186209 377752 7,574 34 28 34 citations h-index g-index papers 39 39 39 7218 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Entanglement of the orbital angular momentum states of photons. Nature, 2001, 412, 313-316.	13.7	2,735
2	Simultaneous whole-animal 3D imaging of neuronal activity using light-field microscopy. Nature Methods, 2014, 11, 727-730.	9.0	672
3	Experimental Two-Photon, Three-Dimensional Entanglement for Quantum Communication. Physical Review Letters, 2002, 89, 240401.	2.9	558
4	Experimental quantum cryptography with qutrits. New Journal of Physics, 2006, 8, 75-75.	1.2	329
5	Wapl is an essential regulator of chromatin structure and chromosome segregation. Nature, 2013, 501, 564-568.	13.7	308
6	Brain-wide 3D imaging of neuronal activity in Caenorhabditis elegans with sculpted light. Nature Methods, 2013, 10, 1013-1020.	9.0	293
7	Concentration of Higher Dimensional Entanglement: Qutrits of Photon Orbital Angular Momentum. Physical Review Letters, 2003, 91, 227902.	2.9	240
8	Rapid movement and transcriptional reâ€localization of human cohesin on DNA. EMBO Journal, 2016, 35, 2671-2685.	3.5	216
9	Two-photon single-cell optogenetic control of neuronal activity by sculpted light. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11981-11986.	3.3	189
10	Multilayer three-dimensional super resolution imaging of thick biological samples. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20221-20226.	3.3	182
11	Superpositions of the orbital angular momentum for applications in quantum experiments. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S47-S51.	1.4	174
12	Confined activation and subdiffractive localization enables whole-cell PALM with genetically expressed probes. Nature Methods, 2011, 8, 327-333.	9.0	174
13	Fast volumetric calcium imaging across multiple cortical layers using sculpted light. Nature Methods, 2016, 13, 1021-1028.	9.0	158
14	High-speed volumetric imaging of neuronal activity in freely moving rodents. Nature Methods, 2018, 15, 429-432.	9.0	156
15	Volumetric Ca2+ Imaging in the Mouse Brain Using Hybrid Multiplexed Sculpted Light Microscopy. Cell, 2019, 177, 1050-1066.e14.	13.5	148
16	Video rate volumetric Ca2+ imaging across cortex using seeded iterative demixing (SID) microscopy. Nature Methods, 2017, 14, 811-818.	9.0	135
17	Direct detection of a single photon by humans. Nature Communications, 2016, 7, 12172.	5.8	112
18	High-speed, cortex-wide volumetric recording of neuroactivity at cellular resolution using light beads microscopy. Nature Methods, 2021, 18, 1103-1111.	9.0	96

#	Article	IF	CITATIONS
19	Network mechanisms of theta related neuronal activity in hippocampal CA1 pyramidal neurons. Nature Neuroscience, 2010, 13, 967-972.	7.1	95
20	A Guide to Emerging Technologies for Large-Scale and Whole-Brain Optical Imaging of Neuronal Activity. Annual Review of Neuroscience, 2018, 41, 431-452.	5.0	87
21	Cerebellar Neurodynamics Predict Decision Timing and Outcome on the Single-Trial Level. Cell, 2020, 180, 536-551.e17.	13.5	71
22	Near-isotropic 3D optical nanoscopy with photon-limited chromophores. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10068-10073.	3.3	61
23	Ultrafast widefield optical sectioning microscopy by multifocal temporal focusing. Optics Express, 2010, 18, 19645.	1.7	60
24	Reshaping the optical dimension in optogenetics. Current Opinion in Neurobiology, 2012, 22, 128-137.	2.0	60
25	A Force-Induced Directional Switch of a Molecular Motor Enables Parallel Microtubule Bundle Formation. Cell, 2016, 167, 539-552.e14.	13.5	50
26	Brain-wide 3D light-field imaging of neuronal activity with speckle-enhanced resolution. Optica, 2018, 5, 345.	4.8	47
27	Non-catalytic motor domains enable processive movement and functional diversification of the kinesin-14 Kar3. ELife, 2015, 4, .	2.8	35
28	Vibrational excitons in ionophores: experimental probes for quantum coherence-assisted ion transport and selectivity in ion channels. New Journal of Physics, 2011, 13, 113030.	1,2	32
29	Visualizing KcsA Conformational Changes upon Ion Binding by Infrared Spectroscopy and Atomistic Modeling. Journal of Physical Chemistry B, 2015, 119, 5824-5831.	1.2	25
30	Laser-Induced Acoustic Desorption of Natural and Functionalized Biochromophores. Analytical Chemistry, 2015, 87, 5614-5619.	3.2	21
31	Optimizing and extending light-sculpting microscopy for fast functional imaging in neuroscience. Biomedical Optics Express, 2015, 6, 353.	1.5	18
32	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. Neurophotonics, 2022, 9, 013001.	1.7	17
33	Gaze mechanisms enabling the detection of faint stars in the night sky. European Journal of Neuroscience, 2021, 54, 5357-5367.	1.2	2
34	Cohesin is a Motor that Bends and Compacts DNA. Biophysical Journal, 2020, 118, 334a-335a.	0.2	0