Giacomo Mazzamuto

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8654137/publications.pdf

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31	405	840776 11	839539 18
papers	citations	h-index	g-index

35	35	35	607
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast whole-brain imaging of seizures in zebrafish larvae by two-photon light-sheet microscopy. Biomedical Optics Express, 2022, 13, 1516.	2.9	16
2	3D molecular phenotyping of cleared human brain tissues with light-sheet fluorescence microscopy. Communications Biology, 2022, 5, 447.	4.4	18
3	Experimental imaging and Monte Carlo modeling of ultrafast pulse propagation in thin scattering slabs. Journal of Biomedical Optics, 2022, 27, .	2.6	1
4	Autofluorescence enhancement for label-free imaging of myelinated fibers in mammalian brains. Scientific Reports, 2021, 11, 8038.	3.3	24
5	Large-scale, cell-resolution volumetric mapping allows layer-specific investigation of human brain cytoarchitecture. Biomedical Optics Express, 2021, 12, 3684.	2.9	18
6	Universal autofocus for quantitative volumetric microscopy of whole mouse brains. Nature Methods, 2021, 18, 953-958.	19.0	32
7	Comparison of Different Tissue Clearing Methods for Three-Dimensional Reconstruction of Human Brain Cellular Anatomy Using Advanced Imaging Techniques. Frontiers in Neuroanatomy, 2021, 15, 752234.	1.7	8
8	Structural Mapping of Action Potential Propagation Pathways through Healthy and Diseased Heart. Biophysical Journal, 2020, 118, 493a.	0.5	0
9	Two-photon high-speed light-sheet volumetric imaging of brain activity during sleep in zebrafish larvae. , 2020, , .		4
10	Semantic Segmentation of Neuronal Bodies in Fluorescence Microscopy Using a 2D+3D CNN Training Strategy with Sparsely Annotated Data. Lecture Notes in Computer Science, 2020, , 95-99.	1.3	3
11	Fast volumetric mapping of human brain slices. , 2020, , .		2
12	Two-photon light-sheet microscopy for high-speed whole-brain functional imaging of zebrafish neuronal physiology and pathology. , 2020, , .		4
13	Fast volumetric mapping of human brain slices. , 2020, , .		1
14	Advanced Morpho-Functional Analysis on Ventricular and Atrial Tissue Reveals Cross-Bridge Kinetics Alterations and Sarcomere Energetic Impairment in Hcm Patients. Biophysical Journal, 2019, 116, 29a.	0.5	1
15	Photonic bands, superchirality, and inverse design of a chiral minimal metasurface. Nanophotonics, 2019, 8, 2291-2301.	6.0	17
16	Three-dimensional analysis of human brain cytoarchitectonics by means of a SWITCH/TDE-combined clearing method. , 2019, , .		0
17	Deep learning strategies for scalable analysis of high-resolution brain imagery. , 2019, , .		0
18	Photostable Molecules on Chip: Integrated Sources of Nonclassical Light. ACS Photonics, 2018, 5, 126-132.	6.6	51

#	Article	IF	Citations
19	Whole Heart Cytoarchitecture at Micron-Scale Resolution. Biophysical Journal, 2018, 114, 384a.	0.5	0
20	Automatic Segmentation of Neurons in 3D Samples of Human Brain Cortex. Lecture Notes in Computer Science, 2018, , 78-85.	1.3	7
21	Software Tools for Efficient Processing of High-Resolution 3D Images of Macroscopic Brain Samples. , 2018, , .		5
22	Towards a Full Volumetric Atlas of Cell-specific Neuronal Spatial Organization in the Entire Mouse Brain. , 2018, , .		1
23	High-Fidelity Imaging in Brain-Wide Structural Studies Using Light-Sheet Microscopy. ENeuro, 2018, 5, ENEURO.0124-18.2018.	1.9	15
24	CELES: CUDA-accelerated simulation of electromagnetic scattering by large ensembles of spheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 199, 103-110.	2.3	69
25	Photostable molecules on chip: Integrated single photon sources for quantum technologies. , 2017, , .		0
26	Diffusive light transport in semitransparent media. Physical Review A, 2016, 94, .	2.5	7
27	A realistic fabrication and design concept for quantum gates based on single emitters integrated in plasmonic-dielectric waveguide structures. Scientific Reports, 2016, 6, 28877.	3.3	37
28	Deducing effective light transport parameters in optically thin systems. New Journal of Physics, 2016, 18, 023036.	2.9	10
29	Coupling of single DBT molecules to a graphene monolayer: proof of principle for a graphene nanoruler. Materials Research Society Symposia Proceedings, 2015, 1728, 16.	0.1	0
30	Necklace State Hallmark in Disordered 2D Photonic Systems. ACS Photonics, 2015, 2, 1636-1643.	6.6	22
31	Single-molecule study for a graphene-based nano-position sensor. New Journal of Physics, 2014, 16, 113007.	2.9	23