

Giacomo Mazzamuto

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

405
citations

840776

11
h-index

839539

18
g-index

35
all docs

35
docs citations

35
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	CELES: CUDA-accelerated simulation of electromagnetic scattering by large ensembles of spheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 199, 103-110.	2.3	69
2	Photostable Molecules on Chip: Integrated Sources of Nonclassical Light. <i>ACS Photonics</i> , 2018, 5, 126-132.	6.6	51
3	A realistic fabrication and design concept for quantum gates based on single emitters integrated in plasmonic-dielectric waveguide structures. <i>Scientific Reports</i> , 2016, 6, 28877.	3.3	37
4	Universal autofocus for quantitative volumetric microscopy of whole mouse brains. <i>Nature Methods</i> , 2021, 18, 953-958.	19.0	32
5	Autofluorescence enhancement for label-free imaging of myelinated fibers in mammalian brains. <i>Scientific Reports</i> , 2021, 11, 8038.	3.3	24
6	Single-molecule study for a graphene-based nano-position sensor. <i>New Journal of Physics</i> , 2014, 16, 113007.	2.9	23
7	Necklace State Hallmark in Disordered 2D Photonic Systems. <i>ACS Photonics</i> , 2015, 2, 1636-1643.	6.6	22
8	Large-scale, cell-resolution volumetric mapping allows layer-specific investigation of human brain cytoarchitecture. <i>Biomedical Optics Express</i> , 2021, 12, 3684.	2.9	18
9	3D molecular phenotyping of cleared human brain tissues with light-sheet fluorescence microscopy. <i>Communications Biology</i> , 2022, 5, 447.	4.4	18
10	Photonic bands, superchirality, and inverse design of a chiral minimal metasurface. <i>Nanophotonics</i> , 2019, 8, 2291-2301.	6.0	17
11	Fast whole-brain imaging of seizures in zebrafish larvae by two-photon light-sheet microscopy. <i>Biomedical Optics Express</i> , 2022, 13, 1516.	2.9	16
12	High-Fidelity Imaging in Brain-Wide Structural Studies Using Light-Sheet Microscopy. <i>ENeuro</i> , 2018, 5, ENEURO.0124-18.2018.	1.9	15
13	Deducing effective light transport parameters in optically thin systems. <i>New Journal of Physics</i> , 2016, 18, 023036.	2.9	10
14	Comparison of Different Tissue Clearing Methods for Three-Dimensional Reconstruction of Human Brain Cellular Anatomy Using Advanced Imaging Techniques. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 752234.	1.7	8
15	Diffusive light transport in semitransparent media. <i>Physical Review A</i> , 2016, 94, .	2.5	7
16	Automatic Segmentation of Neurons in 3D Samples of Human Brain Cortex. <i>Lecture Notes in Computer Science</i> , 2018, , 78-85.	1.3	7
17	Software Tools for Efficient Processing of High-Resolution 3D Images of Macroscopic Brain Samples. , 2018, , .		5
18	Two-photon high-speed light-sheet volumetric imaging of brain activity during sleep in zebrafish larvae. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Two-photon light-sheet microscopy for high-speed whole-brain functional imaging of zebrafish neuronal physiology and pathology. , 2020, , .		4
20	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
21	Fast volumetric mapping of human brain slices. , 2020, , .		2
22	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
23	Towards a Full Volumetric Atlas of Cell-specific Neuronal Spatial Organization in the Entire Mouse Brain. , 2018, , .		1
24	Fast volumetric mapping of human brain slices. , 2020, , .		1
25	Experimental imaging and Monte Carlo modeling of ultrafast pulse propagation in thin scattering slabs. Journal of Biomedical Optics, 2022, 27, .	2.6	1
26	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
27	Photostable molecules on chip: Integrated single photon sources for quantum technologies. , 2017, , .		0
28	Whole Heart Cytoarchitecture at Micron-Scale Resolution. Biophysical Journal, 2018, 114, 384a.	0.5	0
29	Structural Mapping of Action Potential Propagation Pathways through Healthy and Diseased Heart. Biophysical Journal, 2020, 118, 493a.	0.5	0
30	Three-dimensional analysis of human brain cytoarchitectonics by means of a SWITCH/TDE-combined clearing method. , 2019, , .		0
31	Deep learning strategies for scalable analysis of high-resolution brain imagery. , 2019, , .		0