Irene Costantini

List of Publications by Year
in descending order

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64	1,132	623734	434195
papers	citations	14 h-index	31 g-index

75	75	75	1600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical clearing in cardiac imaging: A comparative study. Progress in Biophysics and Molecular Biology, 2022, 168, 10-17.	2.9	10
2	Exploring the human cerebral cortex using confocal microscopy. Progress in Biophysics and Molecular Biology, 2022, 168, 3-9.	2.9	8
3	Automated computation of nerve fibre inclinations from 3D polarised light imaging measurements of brain tissue. Scientific Reports, 2022, 12, 4328.	3.3	5
4	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. Neurophotonics, 2022, 9, 013001.	3.3	17
5	3D molecular phenotyping of cleared human brain tissues with light-sheet fluorescence microscopy. Communications Biology, 2022, 5, 447.	4.4	18
6	Autofluorescence enhancement for label-free imaging of myelinated fibers in mammalian brains. Scientific Reports, 2021, 11, 8038.	3.3	24
7	Large-scale, cell-resolution volumetric mapping allows layer-specific investigation of human brain cytoarchitecture. Biomedical Optics Express, 2021, 12, 3684.	2.9	18
8	Universal autofocus for quantitative volumetric microscopy of whole mouse brains. Nature Methods, 2021, 18, 953-958.	19.0	32
9	Mesoscopic Optical Imaging of Whole Mouse Heart. Journal of Visualized Experiments, 2021, , .	0.3	1
10	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
11	Quantification of Myocyte Disarray in Human Cardiac Tissue. Frontiers in Physiology, 2021, 12, 750364.	2.8	7
12	Towards a clearer view of sympathetic innervation of cardiac and skeletal muscles. Progress in Biophysics and Molecular Biology, 2020, 154, 80-93.	2.9	19
13	Structural Mapping of Action Potential Propagation Pathways through Healthy and Diseased Heart. Biophysical Journal, 2020, 118, 493a.	0.5	0
14	3D imaging and morphometry of the heart capillary system in spontaneously hypertensive rats and normotensive controls. Scientific Reports, 2020, 10, 14276.	3.3	12
15	Dissecting Neuronal Activation on a Brain-Wide Scale With Immediate Early Genes. Frontiers in Neuroscience, 2020, 14, 569517.	2.8	31
16	Toward a High-Resolution Reconstruction of 3D Nerve Fiber Architectures and Crossings in the Brain Using Light Scattering Measurements and Finite-Difference Time-Domain Simulations. Physical Review X, 2020, 10, .	8.9	20
17	3D Imaging and Morphometry of the Coronary Microcirculation in Spontaneously Hypertensive Rats and Normotensive Controls. Biophysical Journal, 2020, 118, 424a.	0.5	0
18	Improving the characterization of ex vivo human brain optical properties using high numerical aperture optical coherence tomography by spatially constraining the confocal parameters. Neurophotonics, 2020, 7, 045005.	3.3	14

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19	Swift light sheet volumetric charting of large human brain portions. , 2020, , .		0
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	Fast volumetric mapping of human brain slices. , 2020, , .		1
23	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
24	Cardiac sympathetic innervation network shapes the myocardium by locally controlling cardiomyocyte size through the cellular proteolytic machinery. Journal of Physiology, 2019, 597, 3639-3656.	2.9	37
25	In-vivo and ex-vivo optical clearing methods for biological tissues: review. Biomedical Optics Express, 2019, 10, 5251.	2.9	133
26	Techniques for methodical, optical and computational automation in light-sheet microscopy. , 2019, , .		0
27	Three-dimensional analysis of human brain cytoarchitectonics by means of a SWITCH/TDE-combined clearing method. , 2019, , .		0
28	P276Whole heart cytoarchitecture at sub-cellular resolution. Cardiovascular Research, 2018, 114, S71-S71.	3.8	0
29	Whole Heart Cytoarchitecture at Micron-Scale Resolution. Biophysical Journal, 2018, 114, 384a.	0.5	0
30	Whole-Brain Vasculature Reconstruction at the Single Capillary Level. Scientific Reports, 2018, 8, 12573.	3.3	96
31	Automatic Segmentation of Neurons in 3D Samples of Human Brain Cortex. Lecture Notes in Computer Science, 2018, , 78-85.	1.3	7
32	Software Tools for Efficient Processing of High-Resolution 3D Images of Macroscopic Brain Samples. , 2018, , .		5
33	Towards a Full Volumetric Atlas of Cell-specific Neuronal Spatial Organization in the Entire Mouse Brain. , 2018, , .		1
34	High-Fidelity Imaging in Brain-Wide Structural Studies Using Light-Sheet Microscopy. ENeuro, 2018, 5, ENEURO.0124-18.2018.	1.9	15
35	Mapping the quantitative cytoarchitecture of the whole mouse brain by light-sheet microscopy and digital brain atlasing (Conference Presentation). , 2018, , .		0
36	Whole heart cytoarchitecture at micron-scale resolution (Conference Presentation). , 2018, , .		0

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37	Optimal staining and clearing protocol for whole mouse brain vasculature imaging with light-sheet microscopy. Proceedings of SPIE, 2017, , .	0.8	0
38	Correlative polarized light imaging and two-photon fluorescence microscopy for 3D myelinated fibers reconstruction. Proceedings of SPIE, 2017, , .	0.8	0
39	Fast, image-based autofocus system for high-resolution optical microscopy of whole mouse brains. , 2017, , .		1
40	Polarized Light Imaging and Two-Photon Fluorescence Microscopy correlative approach for 3D reconstruction of the orientation of myelinated fibers. , 2017, , .		2
41	Clearing of fixed tissue: a review from a microscopistâ€™s perspective. Journal of Biomedical Optics, 2016, 21, 081205.	2.6	140
42	Towards automated neuron tracing via global and local 3D image analysis. , 2016, , .		1
43	Label-free NIR reflectance imaging as a complimentary tool for two-photon fluorescence microscopy: multimodal investigation of stroke (Conference Presentation). , 2016, , .		0
44	Mapping whole-brain activity with cellular resolution by light-sheet microscopy and high-throughput image analysis (Conference Presentation). , 2016, , .		0
45	Combination of two-photon fluorescence microscopy and label-free near-infrared reflectance: a new complementary approach for brain imaging. , 2016, , .		0
46	Brain imaging from the nano- to the macro-scale. , 2015, , .		0
47	Computer-based automatic identification of neurons in gigavoxel-sized 3D human brain images. , 2015, 2015, 7724-7.		2
48	A versatile clearing agent for multi-modal brain imaging. Scientific Reports, 2015, 5, 9808.	3.3	228
49	A versatile new technique to clear mouse and human brain. Proceedings of SPIE, 2015, , .	0.8	0
50	A new versatile clearing method for brain imaging. , 2015, , .		1
51	Whole brain optical imaging. Proceedings of SPIE, 2015, , .	0.8	0
52	Multiphoton microscopy in brain imaging. , 2015, , .		0
53	Label-free near-infrared reflectance microscopy as a complimentary tool for two-photon fluorescence brain imaging. Biomedical Optics Express, 2015, 6, 4483.	2.9	16
54	Brain-wide charting of neuronal activation maps with cellular resolution. , 2015, , .		1

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55	Comprehensive optical and data management infrastructure for high-throughput light-sheet microscopy of whole mouse brains. Neurophotonics, 2015, 2, 041404.	3.3	26
56	A versatile new technique to clear mouse and human brain. , 2015, , .		0
57	A multi modal clearing method for brain imaging. , 2015, , .		0
58	Brain-wide charting of neuronal activation maps with cellular resolution. , 2015, , .		1
59	Gene polymorphisms in pattern recognition receptors and susceptibility to idiopathic recurrent vulvovaginal candidiasis. Frontiers in Microbiology, 2014, 5, 483.	3.5	66
60	Exploring the brain on multiple scales with correlative two-photon and light sheet microscopy. Proceedings of SPIE, 2014, , .	0.8	0
61	Correlative two-photon and light sheet microscopy. Methods, 2014, 66, 268-272.	3.8	34
62	Neural plasticity explored by correlative two-photon and electron/SPIM microscopy. Proceedings of SPIE, 2013, , .	0.8	0
63	A promoter polymorphism in human interleukin-32 modulates its expression and influences the risk and the outcome of epithelial cell-derived thyroid carcinoma. Carcinogenesis, 2013, 34, 1529-1535.	2.8	32
64	Micron-scale Resolution Optical Tomography of Entire Mouse Brains with Confocal Light Sheet Microscopy. Journal of Visualized Experiments, 2013, , .	0.3	14