Thomas Pengo

List of Publications by Year
in descending order

39 papers	2,630 citations	471509 17 h-index	377865 34 g-index
47 all docs	47 docs citations	47 times ranked	3535 citing authors

#	Article	IF	Citations
1	Reproducible brain-wide association studies require thousands of individuals. Nature, 2022, 603, 654-660.	27.8	842
2	Quantitative evaluation of software packages for single-molecule localization microscopy. Nature Methods, 2015, 12, 717-724.	19.0	347
3	Super-resolution fight club: assessment of 2D and 3D single-molecule localization microscopy software. Nature Methods, 2019, 16, 387-395.	19.0	251
4	Muscle Satellite Cell Cross-Talk with a Vascular Niche Maintains Quiescence via VEGF and Notch Signaling. Cell Stem Cell, 2018, 23, 530-543.e9.	11.1	223
5	High throughput 3D super-resolution microscopy reveals <i>Caulobacter crescentus</i> in vivo Z-ring organization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4566-4571.	7.1	188
6	Defined chromosome structure in the genome-reduced bacterium Mycoplasma pneumoniae. Nature Communications, 2017, 8, 14665.	12.8	81
7	Cytotoxic T Cells and Granzyme B Associated with Improved Colorectal Cancer Survival in a Prospective Cohort of Older Women. Cancer Epidemiology Biomarkers and Prevention, 2017, 26, 622-631.	2.5	68
8	Best practices and tools for reporting reproducible fluorescence microscopy methods. Nature Methods, 2021, 18, 1463-1476.	19.0	68
9	Salmonella Persist in Activated Macrophages in T Cell-Sparse Granulomas but Are Contained by Surrounding CXCR3 Ligand-Positioned Th1 Cells. Immunity, 2018, 49, 1090-1102.e7.	14.3	66
10	Quantitative Super-Resolution Imaging Reveals Protein Stoichiometry and Nanoscale Morphology of Assembling HIV-Gag Virions. Nano Letters, 2012, 12, 4705-4710.	9.1	63
11	TCR Affinity Biases Th Cell Differentiation by Regulating CD25, Eef1e1, and Gbp2. Journal of Immunology, 2019, 202, 2535-2545.	0.8	55
12	Registration of the extracellular matrix components constituting the fibroblastic focus in idiopathic pulmonary fibrosis. JCI Insight, 2019, 4, .	5.0	54
13	Block Polymer Micelles Enable CRISPR/Cas9 Ribonucleoprotein Delivery: Physicochemical Properties Affect Packaging Mechanisms and Gene Editing Efficiency. Macromolecules, 2019, 52, 8197-8206.	4.8	48
14	Imaging methods are vastly underreported in biomedical research. ELife, 2020, 9, .	6.0	42
15	PALMsiever: a tool to turn raw data into results for single-molecule localization microscopy. Bioinformatics, 2015, 31, 797-798.	4.1	37
16	Efficient Blind Spectral Unmixing of Fluorescently Labeled Samples Using Multi-Layer Non-Negative Matrix Factorization. PLoS ONE, 2013, 8, e78504.	2.5	23
17	Halton sampling for autofocus. Journal of Microscopy, 2009, 235, 50-58.	1.8	22
18	Automated Live-Cell Imaging of Synapses in Rat and Human Neuronal Cultures. Frontiers in Cellular Neuroscience, 2019, 13, 467.	3.7	19

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19	Chrysalis: A New Method for High-Throughput Histo-Cytometry Analysis of Images and Movies. Journal of Immunology, 2019, 202, 300-308.	0.8	16
20	PELP1/SRC-3-dependent regulation of metabolic PFKFB kinases drives therapy resistant ER+ breast cancer. Oncogene, 2021, 40, 4384-4397.	5.9	16
21	Aptamer micelles targeting fractalkine-expressing cancer cells in vitro and in vivo. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 85-96.	3.3	15
22	Amyloid-β Peptides Disrupt Interactions Between VAMP-2 and SNAP-25 in Neuronal Cells as Determined by FRET/FLIM. Journal of Alzheimer's Disease, 2020, 77, 1-13.	2.6	14
23	ssDNA nanotubes for selective targeting of glioblastoma and delivery of doxorubicin for enhanced survival. Science Advances, 2021, 7, eabl5872.	10.3	14
24	A Novel Automated Microscopy Platform for Multiresolution Multispectral Early Detection of Lung Cancer Cells in Bronchoalveolar Lavage Samples. IEEE Systems Journal, 2014, 8, 985-994.	4.6	12
25	MethodsJ2: a software tool to capture metadata and generate comprehensive microscopy methods text. Nature Methods, 2021, 18, 1414-1416.	19.0	10
26	Correlation of MET and PD-L1 Expression in Malignant Melanoma. Cancers, 2020, 12, 1847.	3.7	8
27	Design Principles for Peptide–Amphiphile–Induced Liposomal Receptor–Targeting with Intracellular Thermosensitivity. ChemNanoMat, 2016, 2, 42-48.	2.8	4
28	Computer Assisted Detection of Cancer Cells in Minimal Samples of Lung Cancer. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5517-20.	0.5	3
29	A PSF-based approach to Biplane calibration in 3D super-resolution microscopy. , 2012, , .		3
30	Sparse algebraic reconstruction for fluorescence mediated tomography. Proceedings of SPIE, 2009, , .	0.8	2
31	Photon migration simulator for fluorescence tomography. Proceedings of SPIE, 2008, , .	0.8	1
32	Automatic Focusing Using Halton Sampling. Imaging & Microscopy, 2009, 11, 39-41.	0.1	1
33	Associations between tissue–based CD3+ T–lymphocyte count and colorectal cancer survival in a prospective cohort of older women. Molecular Carcinogenesis, 2021, 60, 15-24.	2.7	1
34	Photoactivated Localization Microscopy for Cellular Imaging. Neuromethods, 2014, , 87-111.	0.3	1
35	Automation of the detection of lung cancer cells in minimal samples of bronchioalveolar lavage. , 2008, , .		0
36	Revealing the Impact of Fluorescent Labeling on HIV-Gag Virus-Like Particle Formation by Quantitative Super-Resolution Imaging and Fluorescence Correlation Spectroscopy. Biophysical Journal, 2013, 104, 416a.	0.5	0

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37	High throughput 3D Palm Imaging Elucidates Mechanisms of Bacterial Cell Division. Biophysical Journal, 2014, 106, 578a-579a.	0.5	0
38	Steroid Receptor Co-Activators Regulate Metabolic Kinases to Drive Therapy Resistant ER+ Breast Cancer. Journal of the Endocrine Society, 2021, 5, A1031-A1032.	0.2	0
39	The Quest for Perfection in Single Molecule Localization Microscopy. Microscopy and Microanalysis, 2020, 26, 2244-2244.	0.4	0