

Francesco Pampaloni

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

4,873
citations

23
h-index

56
g-index

56
ext. papers

5,700
ext. citations

7.7
avg, IF

5.42
L-index

#	Paper	IF	Citations
48	The third dimension bridges the gap between cell culture and live tissue. <i>Nature Reviews Molecular Cell Biology</i> , 2007 , 8, 839-45	48.7	1881
47	Recent advances in 2D and 3D in vitro systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. <i>Archives of Toxicology</i> , 2013 , 87, 1315-530	5.8	837
46	Thermal fluctuations of grafted microtubules provide evidence of a length-dependent persistence length. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10248-10253	11.5	280
45	High-resolution three-dimensional imaging of large specimens with light sheet-based microscopy. <i>Nature Methods</i> , 2007 , 4, 311-3	21.6	261
44	3D high-content screening for the identification of compounds that target cells in dormant tumor spheroid regions. <i>Experimental Cell Research</i> , 2014 , 323, 131-143	4.2	170
43	The signal flow and motor response controlling chemotaxis of sea urchin sperm. <i>Nature Cell Biology</i> , 2003 , 5, 109-17	23.4	165
42	Fluorescence-based sensors to monitor localization and functions of linear and K63-linked ubiquitin chains in cells. <i>Molecular Cell</i> , 2012 , 47, 797-809	17.6	121
41	High-resolution deep imaging of live cellular spheroids with light-sheet-based fluorescence microscopy. <i>Cell and Tissue Research</i> , 2013 , 352, 161-77	4.2	114
40	Linear ubiquitination of cytosolic Salmonella Typhimurium activates NF- κ B and restricts bacterial proliferation. <i>Nature Microbiology</i> , 2017 , 2, 17066	26.6	101
39	Microtubule architecture: inspiration for novel carbon nanotube-based biomimetic materials. <i>Trends in Biotechnology</i> , 2008 , 26, 302-10	15.1	93
38	Three-dimensional tissue models for drug discovery and toxicology. <i>Recent Patents on Biotechnology</i> , 2009 , 3, 103-17	2.2	74
37	Life sciences require the third dimension. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 117-24	9	72
36	Time-resolved confocal scanning device for ultrasensitive fluorescence detection. <i>Review of Scientific Instruments</i> , 2001 , 72, 4145-4152	1.7	70
35	Microtubule dynamics depart from the wormlike chain model. <i>Physical Review Letters</i> , 2008 , 100, 028102	7.4	67
34	Three-dimensional cell cultures in toxicology. <i>Biotechnology and Genetic Engineering Reviews</i> , 2010 , 26, 117-38	4.1	57
33	Unified operator approach for deriving Hermite-Gaussian and Laguerre-Gaussian laser modes. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004 , 21, 1553-8	1.8	56
32	Identification of autophagy as a longevity-assurance mechanism in the aging model <i>Podospora anserina</i> . <i>Autophagy</i> , 2014 , 10, 822-34	10.2	45

31	Light-sheet-based fluorescence microscopy (LSFM) for the quantitative imaging of cells and tissues. <i>Cell and Tissue Research</i> , 2015 , 360, 129-41	4.2	44
30	Three-dimensional preparation and imaging reveal intrinsic microtubule properties. <i>Nature Methods</i> , 2007 , 4, 843-6	21.6	34
29	Robust and automated three-dimensional segmentation of densely packed cell nuclei in different biological specimens with Lines-of-Sight decomposition. <i>BMC Bioinformatics</i> , 2015 , 16, 187	3.6	33
28	Tissue-culture light sheet fluorescence microscopy (TC-LSFM) allows long-term imaging of three-dimensional cell cultures under controlled conditions. <i>Integrative Biology (United Kingdom)</i> , 2014 , 6, 988-98	3.7	29
27	AMP-Activated Protein Kinase α in Neutrophils Regulates Vascular Repair via Hypoxia-Inducible Factor-1 α and a Network of Proteins Affecting Metabolism and Apoptosis. <i>Circulation Research</i> , 2017 , 120, 99-109	15.7	27
26	Multiscale image analysis reveals structural heterogeneity of the cell microenvironment in homotypic spheroids. <i>Scientific Reports</i> , 2017 , 7, 43693	4.9	25
25	Three-dimensional microtubule behavior in <i>Xenopus</i> egg extracts reveals four dynamic states and state-dependent elastic properties. <i>Biophysical Journal</i> , 2008 , 95, 1474-86	2.9	21
24	Quantitative 3D cell-based assay performed with cellular spheroids and fluorescence microscopy. <i>Methods in Cell Biology</i> , 2013 , 113, 295-309	1.8	20
23	Standardized GMP-compliant scalable production of human pancreas organoids. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 94	8.3	18
22	Live spheroid formation recorded with light sheet-based fluorescence microscopy. <i>Methods in Molecular Biology</i> , 2015 , 1251, 43-57	1.4	16
21	Light-sheet-based fluorescence microscopy for three-dimensional imaging of biological samples. <i>Cold Spring Harbor Protocols</i> , 2014 , 2014, 1-8	1.2	15
20	Human extrahepatic and intrahepatic cholangiocyte organoids show region-specific differentiation potential and model cystic fibrosis-related bile duct disease. <i>Scientific Reports</i> , 2020 , 10, 21900	4.9	15
19	Madin-Darby canine kidney cells are increased in aerobic glycolysis when cultured on flat and stiff collagen-coated surfaces rather than in physiological 3-D cultures. <i>Proteomics</i> , 2010 , 10, 3394-413	4.8	13
18	Long-term live imaging and multiscale analysis identify heterogeneity and core principles of epithelial organoid morphogenesis. <i>BMC Biology</i> , 2021 , 19, 37	7.3	12
17	A Novel Cellular Spheroid-Based Autophagy Screen Applying Live Fluorescence Microscopy Identifies Nonactin as a Strong Inducer of Autophagosomal Turnover. <i>SLAS Discovery</i> , 2017 , 22, 558-570	3.4	10
16	Imaging cellular spheroids with a single (selective) plane illumination microscope. <i>Cold Spring Harbor Protocols</i> , 2014 , 2014, 106-13	1.2	10
15	p63 uses a switch-like mechanism to set the threshold for induction of apoptosis. <i>Nature Chemical Biology</i> , 2020 , 16, 1078-1086	11.7	9
14	Ultra-thin fluorocarbon foils optimise multiscale imaging of three-dimensional native and optically cleared specimens. <i>Scientific Reports</i> , 2019 , 9, 17292	4.9	9

13	3D-Cell-Annotator: an open-source active surface tool for single-cell segmentation in 3D microscopy images. <i>Bioinformatics</i> , 2020 , 36, 2948-2949	7.2	8
12	Imaging MDCK cysts with a single (selective) plane illumination microscope. <i>Cold Spring Harbor Protocols</i> , 2014 , 2014, 114-8	1.2	7
11	Quantifying the autophagy-triggering effects of drugs in cell spheroids with live fluorescence microscopy. <i>Methods in Molecular Biology</i> , 2014 , 1165, 19-29	1.4	5
10	Three-Dimensional Live Imaging of Filamentous Fungi with Light Sheet-Based Fluorescence Microscopy (LSFM). <i>Methods in Molecular Biology</i> , 2017 , 1563, 19-31	1.4	4
9	hFRUIT: An optimized agent for optical clearing of Dil-stained adult human brain tissue. <i>Scientific Reports</i> , 2020 , 10, 9950	4.9	4
8	MISpheroid: a knowledgebase and transparency tool for minimum information in spheroid identity. <i>Nature Methods</i> , 2021 , 18, 1294-1303	21.6	4
7	Polyethylenimine bioconjugates for imaging and DNA delivery in vivo. <i>Methods in Molecular Biology</i> , 2011 , 751, 145-65	1.4	4
6	Extracting the mechanical properties of microtubules from thermal fluctuation measurements on an attached tracer particle. <i>Methods in Cell Biology</i> , 2010 , 95, 601-15	1.8	3
5	Light sheet-based fluorescence microscopy (LSFM) reduces phototoxic effects and provides new means for the modern life sciences 2011 ,		2
4	Accelerating cryoprotectant diffusion kinetics improves cryopreservation of pancreatic islets. <i>Scientific Reports</i> , 2021 , 11, 10418	4.9	2
3	Non-invasive analysis of pancreas organoids in synthetic hydrogels defines material-cell interactions and luminal composition. <i>Biomaterials Science</i> , 2021 , 9, 5415-5426	7.4	2
2	Upgrading a Consumer Stereolithographic 3D Printer to Produce a Physiologically Relevant Model with Human Liver Cancer Organoids. <i>Advanced Materials Technologies</i> , 2200029	6.8	0
1	Literature Search and Review. <i>Assay and Drug Development Technologies</i> , 2014 , 12, 197-206	2.1	