

Rudolf Oldenbourg

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,473
citations

567144

15
h-index

752573

20
g-index

25
all docs

25
docs citations

25
times ranked

1736
citing authors

#	ARTICLE	IF	CITATIONS
1	New polarized light microscope with precision universal compensator. <i>Journal of Microscopy</i> , 1995, 180, 140-147.	0.8	295
2	Techniques for fast and sensitive measurements of two-dimensional birefringence distributions. <i>Applied Optics</i> , 2003, 42, 3009.	2.1	246
3	<i>Bacillus subtilis</i> cell diameter is determined by the opposing actions of two distinct cell wall synthetic systems. <i>Nature Microbiology</i> , 2019, 4, 1294-1305.	5.9	125
4	Polarized light imaging of birefringence and diattenuation at high resolution and high sensitivity. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 094007.	1.0	95
5	Actin retrograde flow actively aligns and orients ligand-engaged integrins in focal adhesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10648-10653.	3.3	95
6	Vinculin is required for cell polarization, migration, and extracellular matrix remodeling in 3D collagen. <i>FASEB Journal</i> , 2015, 29, 4555-4567.	0.2	90
7	Direction of actin flow dictates integrin LFA-1 orientation during leukocyte migration. <i>Nature Communications</i> , 2017, 8, 2047.	5.8	83
8	Dissection of molecular assembly dynamics by tracking orientation and position of single molecules in live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6352-E6361.	3.3	76
9	Rapid and Quantitative Imaging of Excitation Polarized Fluorescence Reveals Ordered Septin Dynamics in Live Yeast. <i>Biophysical Journal</i> , 2011, 101, 985-994.	0.2	72
10	Cytokinesis in vertebrate cells initiates by contraction of an equatorial actomyosin network composed of randomly oriented filaments. <i>ELife</i> , 2017, 6, .	2.8	55
11	Polarized Light Microscopy: Principles and Practice. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.top078600.	0.2	46
12	Polarized light field microscopy: an analytical method using a microlens array to simultaneously capture both conoscopic and orthoscopic views of birefringent objects. <i>Journal of Microscopy</i> , 2008, 231, 419-432.	0.8	43
13	Analysis of Septin Reorganization at Cytokinesis Using Polarized Fluorescence Microscopy. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 42.	1.8	40
14	Spatio-angular fluorescence microscopy I Basic theory. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 1334.	0.8	26
15	Image simulation for biological microscopy: microlith. <i>Biomedical Optics Express</i> , 2014, 5, 1822.	1.5	19
16	Point-spread functions of a polarizing microscope equipped with high-numerical-aperture lenses. <i>Applied Optics</i> , 2000, 39, 6325.	2.1	15
17	Spatio-angular fluorescence microscopy II Paraxial 4f imaging. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 1346.	0.8	15
18	Phase Transition and Liquid Crystalline Organization of Colloidal Graphene Oxide as a Function of pH. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600391.	1.2	11

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19	Spatio-angular fluorescence microscopy III Constrained angular diffusion, polarized excitation, and high-NA imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1465.	0.8	9
20	Mapping polymer birefringence in 3D using a polarizing microscope with oblique illumination. , 2004, , .		8
21	Mapping birefringence in three dimensions using polarized light field microscopy: the case of the juvenile clamshell. Journal of Microscopy, 2018, 271, 315-324.	0.8	5
22	An experimental method to characterize the relationship between aperture image and ray directions in microscope optics. Microscopy Research and Technique, 2021, 84, 668-674.	1.2	0
23	The Point Spread Function of the Polarized Light Field Microscope. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 0, , .	0.8	0