

# Ernst H K Stelzer

## List of Publications by Year in descending order

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200  
papers

23,954  
citations

13854

67  
h-index

8156

148  
g-index

215  
all docs

215  
docs citations

215  
times ranked

25313  
citing authors

#	ARTICLE	IF	CITATIONS
1	Retrograde Analysis of Calcium Signaling by CaMPARI2 Shows Cytosolic Calcium in Chondrocytes Is Unaffected by Parabolic Flights. <i>Biomedicines</i> , 2022, 10, 138.	1.4	2
2	In toto light sheet fluorescence microscopy live imaging datasets of <i>Ceratitidis capitata</i> embryonic development. <i>Scientific Data</i> , 2022, 9, .	2.4	5
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.	2.6	8
4	Long-term live imaging and multiscale analysis identify heterogeneity and core principles of epithelial organoid morphogenesis. <i>BMC Biology</i> , 2021, 19, 37.	1.7	54
5	A deterministic genotyping workflow reduces waste of transgenic individuals by two-thirds. <i>Scientific Reports</i> , 2021, 11, 15325.	1.6	2
6	Light sheet fluorescence microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	105
7	QuickPIV: Efficient 3D particle image velocimetry software applied to quantifying cellular migration during embryogenesis. <i>BMC Bioinformatics</i> , 2021, 22, 579.	1.2	3
8	p63 uses a switch-like mechanism to set the threshold for induction of apoptosis. <i>Nature Chemical Biology</i> , 2020, 16, 1078-1086.	3.9	28
9	The transition from local to global patterns governs the differentiation of mouse blastocysts. <i>PLoS ONE</i> , 2020, 15, e0233030.	1.1	17
10	Measuring Stepwise Binding of Thermally Fluctuating Particles to Cell Membranes without Fluorescence. <i>Biophysical Journal</i> , 2020, 118, 1850-1860.	0.2	7
11	Early developmental plasticity of lateral roots in response to asymmetric water availability. <i>Nature Plants</i> , 2020, 6, 73-77.	4.7	23
12	Cell fate clusters in ICM organoids arise from cell fate heredity and division: a modelling approach. <i>Scientific Reports</i> , 2020, 10, 22405.	1.6	8
13	E-cadherin, actin, microtubules and FAK dominate different spheroid formation phases and important elements of tissue integrity. <i>Biology Open</i> , 2019, 8, .	0.6	54
14	A GABAergic and peptidergic sleep neuron as a locomotion stop neuron with compartmentalized Ca <sup>2+</sup> dynamics. <i>Nature Communications</i> , 2019, 10, 4095.	5.8	39
15	Biglycan evokes autophagy in macrophages via a novel CD44/Toll-like receptor 4 signaling axis in ischemia/reperfusion injury. <i>Kidney International</i> , 2019, 95, 540-562.	2.6	78
16	Ultra-thin fluorocarbon foils optimise multiscale imaging of three-dimensional native and optically cleared specimens. <i>Scientific Reports</i> , 2019, 9, 17292.	1.6	20
17	Mouse ICM Organoids Reveal Three-Dimensional Cell Fate Clustering. <i>Biophysical Journal</i> , 2019, 116, 127-141.	0.2	31
18	An ancestral apical brain region contributes to the central complex under the control of foxQ2 in the beetle <i>Tribolium</i> . <i>ELife</i> , 2019, 8, .	2.8	23

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19	Oocyte DNA damage quality control requires consecutive interplay of CHK2 and CK1 to activate p63. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 261-269.	3.6	112
20	Changes in the allocation of endogenous strigolactone improve plant biomass production on phosphate-poor soils. <i>New Phytologist</i> , 2018, 217, 784-798.	3.5	48
21	The molecular recognition of phosphatidic acid by an amphipathic helix in Opi1. <i>Journal of Cell Biology</i> , 2018, 217, 3109-3126.	2.3	55
22	A universal vector concept for a direct genotyping of transgenic organisms and a systematic creation of homozygous lines. <i>ELife</i> , 2018, 7, .	2.8	13
23	Multiscale image analysis reveals structural heterogeneity of the cell microenvironment in homotypic spheroids. <i>Scientific Reports</i> , 2017, 7, 43693.	1.6	59
24	Improving your four-dimensional image: traveling through a decade of light-sheet-based fluorescence microscopy research. <i>Nature Protocols</i> , 2017, 12, 1103-1109.	5.5	26
25	csiLSFM combines light-sheet fluorescence microscopy and coherent structured illumination for a lateral resolution below 100 nm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4869-4874.	3.3	52
26	Endogenous AJAP1 associates with the cytoskeleton and attenuates angiogenesis in endothelial cells. <i>Biology Open</i> , 2017, 6, 723-731.	0.6	7
27	Three-Dimensional Live Imaging of Filamentous Fungi with Light Sheet-Based Fluorescence Microscopy (LSFM). <i>Methods in Molecular Biology</i> , 2017, 1563, 19-31.	0.4	5
28	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.	1.4	13
29	A vector concept for the systematic creation and unambiguous identification of transgenic genotypes. <i>Mechanisms of Development</i> , 2017, 145, S104.	1.7	0
30	Light Sheet-based Fluorescence Microscopy of Living or Fixed and Stained <i>Tribolium castaneum</i> Embryos. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	13
31	Quantitative three-dimensional evaluation of immunofluorescence staining for large whole mount spheroids with light sheet microscopy. <i>Biomedical Optics Express</i> , 2017, 8, 484.	1.5	58
32	Non-lethal genotyping of <i>Tribolium castaneum</i> adults using genomic DNA extracted from wing tissue. <i>PLoS ONE</i> , 2017, 12, e0182564.	1.1	3
33	Optimal 2D-SIM reconstruction by two filtering steps with Richardson-Lucy deconvolution. <i>Scientific Reports</i> , 2016, 6, 37149.	1.6	58
34	Alternative exon usage creates novel transcript variants of tumor suppressor SHREW-1 gene with differential tissue expression profile. <i>Biology Open</i> , 2016, 5, 1607-1619.	0.6	1
35	Long-term fluorescence live imaging of <i>Tribolium castaneum</i> embryos: principles, resources, scientific challenges and the comparative approach. <i>Current Opinion in Insect Science</i> , 2016, 18, 17-26.	2.2	12
36	Identifying the necrotic zone boundary in tumour spheroids with pair-correlation functions. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160649.	1.5	23

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37	A 3-D cell culture system to study epithelia functions using microcarriers. <i>Cytotechnology</i> , 2016, 68, 1813-1825.	0.7	23
38	Rules and Self-Organizing Properties of Post-embryonic Plant Organ Cell Division Patterns. <i>Current Biology</i> , 2016, 26, 439-449.	1.8	150
39	A <i>Photobacterium</i> Natural Product Inhibits Insect Juvenile Hormone Epoxide Hydrolase. <i>ChemBioChem</i> , 2015, 16, 766-771.	1.3	36
40	Light-sheet fluorescence microscopy for quantitative biology. <i>Nature Methods</i> , 2015, 12, 23-26.	9.0	251
41	Hsp90 Is Involved in the Regulation of Cytosolic Precursor Protein Abundance in Tomato. <i>Molecular Plant</i> , 2015, 8, 228-241.	3.9	21
42	Live Spheroid Formation Recorded with Light Sheet-Based Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , 2015, 1251, 43-57.	0.4	18
43	Light-sheet-based fluorescence microscopy (LSFM) for the quantitative imaging of cells and tissues. <i>Cell and Tissue Research</i> , 2015, 360, 129-141.	1.5	66
44	Cytotoxicity and infiltration of human NK cells in in vivo-like tumor spheroids. <i>BMC Cancer</i> , 2015, 15, 351.	1.1	74
45	Lateral assembly of N-cadherin drives tissue integrity by stabilizing adherens junctions. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141055.	1.5	11
46	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.	1.2	43
47	Live imaging of <i>Tribolium castaneum</i> embryonic development using light-sheet-based fluorescence microscopy. <i>Nature Protocols</i> , 2015, 10, 1486-1507.	5.5	22
48	Imaging MDCK Cysts with a Single (Selective) Plane Illumination Microscope. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot080184.	0.2	8
49	Identification of autophagy as a longevity-assurance mechanism in the aging model <i>Podospora anserina</i> . <i>Autophagy</i> , 2014, 10, 822-834.	4.3	53
50	Invited Review Article: Advanced light microscopy for biological space research. <i>Review of Scientific Instruments</i> , 2014, 85, 101101.	0.6	24
51	Better Imaging through Chemistry. <i>Cell</i> , 2014, 159, 1243-1246.	13.5	8
52	Trans-Golgi network localized small GTPase RabA1d is involved in cell plate formation and oscillatory root hair growth. <i>BMC Plant Biology</i> , 2014, 14, 252.	1.6	52
53	Light-Sheet-Based Fluorescence Microscopy for Three-Dimensional Imaging of Biological Samples. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.top080168.	0.2	23
54	Non-invasive long-term fluorescence live imaging of <i>Tribolium castaneum</i> embryos. <i>Development (Cambridge)</i> , 2014, 141, 2331-2338.	1.2	54

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55	Non-invasive long-term fluorescence live imaging of <i>Tribolium castaneum</i> embryos. <i>Development</i> (Cambridge), 2014, 141, 2361-2361.	1.2	2
56	Live Imaging of Arabidopsis Development. <i>Methods in Molecular Biology</i> , 2014, 1062, 539-550.	0.4	14
57	A Spatial Accommodation by Neighboring Cells Is Required for Organ Initiation in <i>Arabidopsis</i> . <i>Science</i> , 2014, 343, 178-183.	6.0	262
58	Imaging Cellular Spheroids with a Single (Selective) Plane Illumination Microscope. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot080176.	0.2	11
59	Tissue-culture light sheet fluorescence microscopy (TC-LSFM) allows long-term imaging of three-dimensional cell cultures under controlled conditions. <i>Integrative Biology</i> (United Kingdom), 2014, 6, 988-998.	0.6	39
60	Live imaging and quantitative analysis of gastrulation in mouse embryos using light-sheet microscopy and 3D tracking tools. <i>Nature Protocols</i> , 2014, 9, 575-585.	5.5	48
61	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.	1.2	219
62	Quantifying the Autophagy-Triggering Effects of Drugs in Cell Spheroids with Live Fluorescence Microscopy. <i>Methods in Molecular Biology</i> , 2014, 1165, 19-29.	0.4	7
63	Hsp90 is involved in the regulation of cytosolic precursor protein abundance in tomato. <i>Molecular Plant</i> , 2014, , .	3.9	0
64	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, 1315-1530.	1.9	1,089
65	Quantitative 3D Cell-Based Assay Performed with Cellular Spheroids and Fluorescence Microscopy. <i>Methods in Cell Biology</i> , 2013, 113, 295-309.	0.5	28
66	High-resolution deep imaging of live cellular spheroids with light-sheet-based fluorescence microscopy. <i>Cell and Tissue Research</i> , 2013, 352, 161-177.	1.5	144
67	An Auxin Transport Mechanism Restricts Positive Orthogravitropism in Lateral Roots. <i>Current Biology</i> , 2013, 23, 817-822.	1.8	134
68	Lateral root morphogenesis is dependent on the mechanical properties of the overlaying tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5229-5234.	3.3	233
69	Live Imaging of Whole Mouse Embryos during Gastrulation: Migration Analyses of Epiblast and Mesodermal Cells. <i>PLoS ONE</i> , 2013, 8, e64506.	1.1	66
70	Role of N-Cadherin cis and trans Interfaces in the Dynamics of Adherens Junctions in Living Cells. <i>PLoS ONE</i> , 2013, 8, e81517.	1.1	19
71	Viscoelastic response of contractile filament bundles. <i>Physical Review E</i> , 2011, 83, 051902.	0.8	25
72	Three-dimensional Fluorescence Lifetime Imaging with a Single Plane Illumination Microscope provides an improved Signal to Noise Ratio. <i>Optics Express</i> , 2011, 19, 20743.	1.7	44

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73	High-resolution live imaging of plant growth in near physiological bright conditions using light sheet fluorescence microscopy. <i>Plant Journal</i> , 2011, 68, 377-385.	2.8	169
74	Light sheet-based fluorescence microscopy (LSFM) reduces phototoxic effects and provides new means for the modern life sciences. <i>Proceedings of SPIE</i> , 2011, , .	0.8	3
75	A novel laser nanosurgery approach supports de novo Golgi biogenesis in mammalian cells. <i>Journal of Cell Science</i> , 2011, 124, 978-987.	1.2	27
76	Digital Scanned Laser Light-Sheet Fluorescence Microscopy (DSLM) of Zebrafish and <i>Drosophila</i> Embryonic Development. <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot065839.	0.2	48
77	Madinâ€“Darby canine kidney cells are increased in aerobic glycolysis when cultured on flat and stiff collagenâ€“coated surfaces rather than in physiological 3â€“D cultures. <i>Proteomics</i> , 2010, 10, 3394-3413.	1.3	15
78	Fast, high-contrast imaging of animal development with scanned light sheetâ€“based structured-illumination microscopy. <i>Nature Methods</i> , 2010, 7, 637-642.	9.0	515
79	Digital Scanned Laser Light Sheet Fluorescence Microscopy. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.top78.	0.2	40
80	Single Plane Illumination Microscopy Allows Fluorescence Correlation Spectroscopy (SPIM-FCS) to be used for Concentration and Diffusion Coefficient Imaging in 3d. <i>Biophysical Journal</i> , 2010, 98, 623a.	0.2	0
81	Single Plane Illumination Fluorescence Correlation Spectroscopy (SPIM-FCS) probes inhomogeneous three-dimensional environments. <i>Optics Express</i> , 2010, 18, 10627.	1.7	133
82	ImFCS: A software for Imaging FCS data analysis and visualization. <i>Optics Express</i> , 2010, 18, 25468.	1.7	65
83	Nlcam modulates midline convergence during anterior neural plate morphogenesis. <i>Developmental Biology</i> , 2010, 339, 14-25.	0.9	46
84	Membrane Invaginations Reveal Cortical Sites that Pull on Mitotic Spindles in One-Cell <i>C. elegans</i> Embryos. <i>PLoS ONE</i> , 2010, 5, e12301.	1.1	96
85	Mechanosensing in actin stress fibers revealed by a close correlation between force and protein localization. <i>Journal of Cell Science</i> , 2009, 122, 1665-1679.	1.2	235
86	Three-Dimensional Tissue Models for Drug Discovery and Toxicology. <i>Recent Patents on Biotechnology</i> , 2009, 3, 103-117.	0.4	85
87	The zebrafish digital embryo: in toto reconstruction of zebrafish early embryonic development with digital scanned laser light sheet fluorescence microscopy. , 2009, , .		1
88	A macrodomain-containing histone rearranges chromatin upon sensing PARP1 activation. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 923-929.	3.6	382
89	Three-Dimensional Cell Cultures in Toxicology. <i>Biotechnology and Genetic Engineering Reviews</i> , 2009, 26, 117-138.	2.4	68
90	Mechanosensing in actin stress fibers revealed by a close correlation between force and protein localization. <i>Journal of Cell Science</i> , 2009, 122, 1928-1928.	1.2	19

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91	Segmentation-Less 3D Quantitative Image Analysis of Tissue Architecture with Application to the Localization of Organelles in MDCK Cysts. <i>Biophysical Journal</i> , 2009, 96, 297a-298a.	0.2	0
92	The SpoMBe pathway drives membrane bending necessary for cytokinesis and spore formation in yeast meiosis. <i>EMBO Journal</i> , 2008, 27, 2363-2374.	3.5	21
93	Mechanism of phototaxis in marine zooplankton. <i>Nature</i> , 2008, 456, 395-399.	13.7	254
94	Quantitative in vivo imaging of entire embryos with Digital Scanned Laser Light Sheet Fluorescence Microscopy. <i>Current Opinion in Neurobiology</i> , 2008, 18, 624-632.	2.0	159
95	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, 1474-1486.	0.2	26
96	Reconstruction of Zebrafish Early Embryonic Development by Scanned Light Sheet Microscopy. <i>Science</i> , 2008, 322, 1065-1069.	6.0	1,397
97	A Correlative Light and Electron Microscopy Method Based on Laser Micropatterning and Etching. <i>Methods in Molecular Biology</i> , 2008, 457, 203-213.	0.4	17
98	Light sheet-based fluorescence microscopy: More dimensions, more photons, and less photodamage. <i>HFSP Journal</i> , 2008, 2, 266-275.	2.5	180
99	In Vivo Imaging of the Inflammatory Receptor CD40 After Cerebral Ischemia Using a Fluorescent Antibody. <i>Stroke</i> , 2008, 39, 2845-2852.	1.0	54
100	Filopodia act as phagocytic tentacles and pull with discrete steps and a load-dependent velocity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11633-11638.	3.3	215
101	Lateral modulation boosts image quality in single plane illumination fluorescence microscopy. <i>Optics Letters</i> , 2007, 32, 1938.	1.7	79
102	Three-dimensional optical manipulation using four collimated intersecting laser beams. <i>Optics Express</i> , 2007, 15, 4921.	1.7	12
103	Three-dimensional laser microsurgery in light-sheet based microscopy (SPIM). <i>Optics Express</i> , 2007, 15, 6420.	1.7	55
104	Multi-view image fusion improves resolution in three-dimensional microscopy. <i>Optics Express</i> , 2007, 15, 8029.	1.7	205
105	Investigating Relaxation Processes in Cells and Developing Organisms: From Cell Ablation to Cytoskeleton Nanosurgery. <i>Methods in Cell Biology</i> , 2007, 82, 267-291.	0.5	24
106	High-resolution three-dimensional imaging of large specimens with light sheet-based microscopy. <i>Nature Methods</i> , 2007, 4, 311-313.	9.0	322
107	Three-dimensional preparation and imaging reveal intrinsic microtubule properties. <i>Nature Methods</i> , 2007, 4, 843-846.	9.0	39
108	The third dimension bridges the gap between cell culture and live tissue. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 839-845.	16.1	2,276

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109	Resolution enhancement in a light-sheet-based microscope (SPIM). <i>Optics Letters</i> , 2006, 31, 1477.	1.7	183
110	Interferometric tracking of optically trapped probes behind structured surfaces: a phase correction method. <i>Applied Optics</i> , 2006, 45, 7309.	2.1	28
111	Digital Microscopy (ODMS). , 2006, , 519-568.		0
112	Dynamic Organization of the Actin Cytoskeleton During Meiosis and Spore Formation in Budding Yeast. <i>Traffic</i> , 2006, 7, 1628-1642.	1.3	39
113	Nud1p, the yeast homolog of Centriolin, regulates spindle pole body inheritance in meiosis. <i>EMBO Journal</i> , 2006, 25, 3856-3868.	3.5	28
114	Dynein-mediated pulling forces drive rapid mitotic spindle elongation in <i>Ustilago maydis</i> . <i>EMBO Journal</i> , 2006, 25, 4897-4908.	3.5	58
115	Databases for Two- and Three-Dimensional Microscopical Images in Biology. , 2006, , 861-869.		0
116	Selective Plane Illumination Microscopy. , 2006, , 672-679.		3
117	The Intermediate Optical System of Laser-Scanning Confocal Microscopes. , 2006, , 207-220.		23
118	Life sciences require the third dimension. <i>Current Opinion in Cell Biology</i> , 2006, 18, 117-124.	2.6	99
119	In vivo Selective Cytoskeleton Dynamics Quantification in Interphase Cells Induced by Pulsed Ultraviolet Laser Nanosurgery. <i>Traffic</i> , 2005, 6, 1093-1102.	1.3	63
120	Subcellular nanosurgery with a pulsed subnanosecond UV-A laser. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2005, 20, 217-222.	0.4	15
121	Spore number control and breeding in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Biology</i> , 2005, 171, 627-640.	2.3	73
122	Control of relative radiation pressure in optical traps: Application to phagocytic membrane binding studies. <i>Physical Review E</i> , 2005, 71, 061927.	0.8	46
123	Three-dimensional bead position histograms reveal single-molecule nanomechanics. <i>Physical Review E</i> , 2005, 71, 021907.	0.8	14
124	Publisher's Note: Three-dimensional bead position histograms reveal single-molecule nanomechanics [Phys. Rev. E 71, 021907 (2005)]. <i>Physical Review E</i> , 2005, 71, .	0.8	0
125	Ultraviolet diffraction limited nanosurgery of live biological tissues. <i>Review of Scientific Instruments</i> , 2004, 75, 472-478.	0.6	70
126	Mechanical Properties of Single Motor Molecules Studied by Three-Dimensional Thermal Force Probing in Optical Tweezers. <i>ChemPhysChem</i> , 2004, 5, 1150-1158.	1.0	63



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127	Tilt angle dependent three-dimensional-position detection of a trapped cylindrical particle in a focused laser beam. Applied Physics Letters, 2004, 84, 4271-4273.	1.5	14
128	Stable chromosomal units determine the spatial and temporal organization of DNA replication. Journal of Cell Science, 2004, 117, 5353-5365.	1.2	89
129	Optical Sectioning Deep Inside Live Embryos by Selective Plane Illumination Microscopy. Science, 2004, 305, 1007-1009.	6.0	2,103
130	Trapping and tracking a local probe with a photonic force microscope. Review of Scientific Instruments, 2004, 75, 2197-2210.	0.6	148
131	Reply to comment on "Trapping force, force constant, and potential depths for dielectric spheres in the presence of spherical aberrations". Applied Optics, 2004, 43, 1827.	2.1	6
132	Active particle manipulation with four laser beams. , 2004, 5322, 114.		1
133	The Distribution of Active Force Generators Controls Mitotic Spindle Position. Science, 2003, 301, 518-521.	6.0	351
134	Three-dimensional tracking of small spheres in focused laser beams: influence of the detection angular aperture. Optics Letters, 2003, 28, 411.	1.7	71
135	Multiple imaging axis microscopy improves resolution for thick-sample applications. Optics Letters, 2003, 28, 1654.	1.7	60
136	Visualizing chromatin and chromosomes in living cells. Methods, 2003, 29, 42-50.	1.9	79
137	Albumin-Based Drug Delivery as Novel Therapeutic Approach for Rheumatoid Arthritis. Journal of Immunology, 2003, 170, 4793-4801.	0.4	196
138	[18] Resolution in optical microscopy. Methods in Enzymology, 2003, 360, 416-446.	0.4	27
139	Optical Trapping of Small Particles. Springer Series in Optical Sciences, 2003, , 357-388.	0.5	2
140	Targeting of Rough Endoplasmic Reticulum Membrane Proteins and Ribosomes in Invertebrate Neurons. Molecular Biology of the Cell, 2002, 13, 1778-1791.	0.9	144
141	Optical levitation of absorbing particles with a nominally Gaussian laser beam. Optics Letters, 2002, 27, 1223.	1.7	48
142	Optical scanning holography as a technique for high-resolution three-dimensional biological microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1910.	0.8	54
143	Tailoring the axial shape of the point spread function using the Toraldo concept. Optics Express, 2002, 10, 98.	1.7	82
144	Trapping forces, force constants, and potential depths for dielectric spheres in the presence of spherical aberrations. Applied Optics, 2002, 41, 2494.	2.1	171

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145	Three-dimensional position detection of optically trapped dielectric particles. <i>Journal of Applied Physics</i> , 2002, 91, 5474-5488.	1.1	162
146	Beyond the diffraction limit?. <i>Nature</i> , 2002, 417, 806-807.	13.7	77
147	Dynamic organization of the actin system in the motile cells of <i>Dictyostelium</i> . <i>Journal of Muscle Research and Cell Motility</i> , 2002, 23, 639-649.	0.9	42
148	Optical trapping of dielectric particles in arbitrary fields. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2001, 18, 839.	0.8	150
149	Three-dimensional thermal noise imaging. <i>Applied Physics Letters</i> , 2001, 79, 3878-3880.	1.5	66
150	Large-scale chromatin fibers of living cells display a discontinuous functional organization. <i>Chromosoma</i> , 2001, 110, 39-51.	1.0	23
151	Spatial partitioning of secretory cargo from Golgi resident proteins in live cells. <i>BMC Cell Biology</i> , 2001, 2, 19.	3.0	21
152	Polarity controls forces governing asymmetric spindle positioning in the <i>Caenorhabditis elegans</i> embryo. <i>Nature</i> , 2001, 409, 630-633.	13.7	484
153	Quantitative ER $\alpha$ Golgi Transport Kinetics and Protein Separation upon Golgi Exit Revealed by Vesicular Integral Membrane Protein 36 Dynamics in Live Cells. <i>Molecular Biology of the Cell</i> , 2001, 12, 1481-1498.	0.9	28
154	Photonic Force Microscopy: A New Tool Providing New Methods to Study Membranes at the Molecular Level. <i>Single Molecules</i> , 2000, 1, 129-133.	1.6	21
155	Confocal Theta Fluorescence Microscopy: Practical Considerations. , 1999, , 208-219.		0
156	Rab6 Coordinates a Novel Golgi to ER Retrograde Transport Pathway in Live Cells. <i>Journal of Cell Biology</i> , 1999, 147, 743-760.	2.3	384
157	Photobleaching GFP reveals protein dynamics inside live cells. <i>Trends in Cell Biology</i> , 1999, 9, 61-65.	3.6	245
158	Three-dimensional high-resolution particle tracking for optical tweezers by forward scattered light. , 1999, 44, 378-386.		298
159	Single-lens theta microscopy: Resolution, efficiency and working distance. <i>Journal of Modern Optics</i> , 1999, 46, 843-858.	0.6	12
160	The BioImage Database Project: Organizing Multidimensional Biological Images in an Object-Relational Database. <i>Journal of Structural Biology</i> , 1999, 125, 97-102.	1.3	40
161	Single-lens theta microscopy: resolution, efficiency and working distance. <i>Journal of Modern Optics</i> , 1999, 46, 843-858.	0.6	1
162	Local viscosity probed by photonic force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, S71-S73.	1.1	102

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163	Photonic force microscope calibration by thermal noise analysis. Applied Physics A: Materials Science and Processing, 1998, 66, S75-S78.	1.1	209
164	Analysis of human interphase chromosome territories in vivo. Biology of the Cell, 1998, 90, 277-277.	0.7	0
165	Structure and dynamics of human interphase chromosome territories in vivo. Human Genetics, 1998, 102, 241-251.	1.8	315
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