

Philipp J Keller

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.

71
papers

6,689
citations

37
h-index

76
g-index

76
ext. papers

8,650
ext. citations

15.4
avg, IF

6.22
L-index

#	Paper	IF	Citations
71	Reconstruction of zebrafish early embryonic development by scanned light sheet microscopy. <i>Science</i> , 2008 , 322, 1065-9	33.3	1075
70	Whole-brain functional imaging at cellular resolution using light-sheet microscopy. <i>Nature Methods</i> , 2013 , 10, 413-20	21.6	831
69	Fast, high-contrast imaging of animal development with scanned light sheet-based structured-illumination microscopy. <i>Nature Methods</i> , 2010 , 7, 637-42	21.6	411
68	Quantitative high-speed imaging of entire developing embryos with simultaneous multiview light-sheet microscopy. <i>Nature Methods</i> , 2012 , 9, 755-63	21.6	368
67	A general method to fine-tune fluorophores for live-cell and in vivo imaging. <i>Nature Methods</i> , 2017 , 14, 987-994	21.6	289
66	In Toto Imaging and Reconstruction of Post-Implantation Mouse Development at the Single-Cell Level. <i>Cell</i> , 2018 , 175, 859-876.e33	56.2	205
65	Fast, accurate reconstruction of cell lineages from large-scale fluorescence microscopy data. <i>Nature Methods</i> , 2014 , 11, 951-8	21.6	200
64	Light-sheet functional imaging in fictively behaving zebrafish. <i>Nature Methods</i> , 2014 , 11, 883-4	21.6	194
63	Tissue clearing and its applications in neuroscience. <i>Nature Reviews Neuroscience</i> , 2020 , 21, 61-79	13.5	178
62	Tandem fluorescent protein timers for in vivo analysis of protein dynamics. <i>Nature Biotechnology</i> , 2012 , 30, 708-14	44.5	172
61	Visualizing whole-brain activity and development at the single-cell level using light-sheet microscopy. <i>Neuron</i> , 2015 , 85, 462-83	13.9	159
60	Whole-animal functional and developmental imaging with isotropic spatial resolution. <i>Nature Methods</i> , 2015 , 12, 1171-8	21.6	148
59	Adaptive light-sheet microscopy for long-term, high-resolution imaging in living organisms. <i>Nature Biotechnology</i> , 2016 , 34, 1267-1278	44.5	142
58	Stochastic electrotransport selectively enhances the transport of highly electromobile molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6274-83	11.5	133
57	Imaging morphogenesis: technological advances and biological insights. <i>Science</i> , 2013 , 340, 1234-168	33.3	128
56	Whole-central nervous system functional imaging in larval <i>Drosophila</i> . <i>Nature Communications</i> , 2015 , 6, 7924	17.4	126
55	Light sheet microscopy of living or cleared specimens. <i>Current Opinion in Neurobiology</i> , 2012 , 22, 138-43	7.6	126

54	Quantitative in vivo imaging of entire embryos with Digital Scanned Laser Light Sheet Fluorescence Microscopy. <i>Current Opinion in Neurobiology</i> , 2008 , 18, 624-32	7.6	118
53	Real-Time Three-Dimensional Cell Segmentation in Large-Scale Microscopy Data of Developing Embryos. <i>Developmental Cell</i> , 2016 , 36, 225-40	10.2	115
52	BigStitcher: reconstructing high-resolution image datasets of cleared and expanded samples. <i>Nature Methods</i> , 2019 , 16, 870-874	21.6	104
51	Efficient processing and analysis of large-scale light-sheet microscopy data. <i>Nature Protocols</i> , 2015 , 10, 1679-96	18.8	85
50	Multi-view light-sheet imaging and tracking with the MaMuT software reveals the cell lineage of a direct developing arthropod limb. <i>ELife</i> , 2018 , 7,	8.9	77
49	Development of the annelid axochord: insights into notochord evolution. <i>Science</i> , 2014 , 345, 1365-8	33.3	74
48	Life sciences require the third dimension. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 117-24	9	72
47	Whole-Brain Profiling of Cells and Circuits in Mammals by Tissue Clearing and Light-Sheet Microscopy. <i>Neuron</i> , 2020 , 106, 369-387	13.9	71
46	Reconstructing embryonic development. <i>Genesis</i> , 2011 , 49, 488-513	1.9	61
45	Spore number control and breeding in <i>Saccharomyces cerevisiae</i> : a key role for a self-organizing system. <i>Journal of Cell Biology</i> , 2005 , 171, 627-40	7.3	60
44	Light-Sheet Microscopy and Its Potential for Understanding Developmental Processes. <i>Annual Review of Cell and Developmental Biology</i> , 2019 , 35, 655-681	12.6	48
43	Live imaging of whole mouse embryos during gastrulation: migration analyses of epiblast and mesodermal cells. <i>PLoS ONE</i> , 2013 , 8, e64506	3.7	48
42	Light-sheet imaging for systems neuroscience. <i>Nature Methods</i> , 2015 , 12, 27-9	21.6	47
41	Shedding light on the system: studying embryonic development with light sheet microscopy. <i>Current Opinion in Genetics and Development</i> , 2011 , 21, 558-65	4.9	47
40	Single-Cell Reconstruction of Emerging Population Activity in an Entire Developing Circuit. <i>Cell</i> , 2019 , 179, 355-372.e23	56.2	44
39	Fast and robust optical flow for time-lapse microscopy using super-voxels. <i>Bioinformatics</i> , 2013 , 29, 373-80	9.0	41
38	Nlcam modulates midline convergence during anterior neural plate morphogenesis. <i>Developmental Biology</i> , 2010 , 339, 14-25	3.1	40
37	Digital scanned laser light-sheet fluorescence microscopy (DSLIM) of zebrafish and <i>Drosophila</i> embryonic development. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 1235-43	1.2	40

36	Emerging Imaging and Genomic Tools for Developmental Systems Biology. <i>Developmental Cell</i> , 2016 , 36, 597-610	10.2	37
35	Direct In Vivo Manipulation and Imaging of Calcium Transients in Neutrophils Identify a Critical Role for Leading-Edge Calcium Flux. <i>Cell Reports</i> , 2015 , 13, 2107-17	10.6	37
34	Segregation of yeast nuclear pores. <i>Nature</i> , 2010 , 466, E1	50.4	37
33	Three-dimensional preparation and imaging reveal intrinsic microtubule properties. <i>Nature Methods</i> , 2007 , 4, 843-6	21.6	34
32	Digital scanned laser light sheet fluorescence microscopy. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.top7833		
31	Histone H3K27 acetylation precedes active transcription during zebrafish zygotic genome activation as revealed by live-cell analysis. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	32
30	Live imaging and quantitative analysis of gastrulation in mouse embryos using light-sheet microscopy and 3D tracking tools. <i>Nature Protocols</i> , 2014 , 9, 575-85	18.8	31
29	In vivo imaging of zebrafish embryogenesis. <i>Methods</i> , 2013 , 62, 268-78	4.6	31
28	Brain-wide circuit interrogation at the cellular level guided by online analysis of neuronal function. <i>Nature Methods</i> , 2018 , 15, 1117-1125	21.6	28
27	Characterization of a common progenitor pool of the epicardium and myocardium. <i>Science</i> , 2021 , 371,	33.3	26
26	Repulsive cues combined with physical barriers and cell-cell adhesion determine progenitor cell positioning during organogenesis. <i>Nature Communications</i> , 2016 , 7, 11288	17.4	24
25	Towards comprehensive cell lineage reconstructions in complex organisms using light-sheet microscopy. <i>Development Growth and Differentiation</i> , 2013 , 55, 563-78	3	24
24	A computational statistics approach for estimating the spatial range of morphogen gradients. <i>Development (Cambridge)</i> , 2011 , 138, 4867-74	6.6	23
23	Nud1p, the yeast homolog of Centriolin, regulates spindle pole body inheritance in meiosis. <i>EMBO Journal</i> , 2006 , 25, 3856-68	13	23
22	A practical guide to adaptive light-sheet microscopy. <i>Nature Protocols</i> , 2018 , 13, 2462-2500	18.8	23
21	Metabolic Regulation of Developmental Cell Cycles and Zygotic Transcription. <i>Current Biology</i> , 2019 , 29, 1193-1198.e5	6.3	22
20	Evolution of mutational robustness in the yeast genome: a link to essential genes and meiotic recombination hotspots. <i>PLoS Genetics</i> , 2009 , 5, e1000533	6	21
19	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

18	Light sheet microscopy in cell biology. <i>Methods in Molecular Biology</i> , 2013 , 931, 123-37	1.4	19
17	The PAR complex controls the spatiotemporal dynamics of F-actin and the MTOC in directionally migrating leukocytes. <i>Journal of Cell Science</i> , 2014 , 127, 4381-95	5.3	15
16	BigStitcher: Reconstructing high-resolution image datasets of cleared and expanded samples		12
15	Live imaging of nervous system development and function using light-sheet microscopy. <i>Molecular Reproduction and Development</i> , 2015 , 82, 605-18	2.6	10
14	Nuclear crowding and nonlinear diffusion during interkinetic nuclear migration in the zebrafish retina. <i>ELife</i> , 2020 , 9,	8.9	8
13	In vivo glucose imaging in multiple model organisms with an engineered single-wavelength sensor. <i>Cell Reports</i> , 2021 , 35, 109284	10.6	7
12	A Preferred Curvature-Based Continuum Mechanics Framework for Modeling Embryogenesis. <i>Biophysical Journal</i> , 2018 , 114, 267-277	2.9	6
11	Light sheet-based imaging and analysis of early embryogenesis in the fruit fly. <i>Methods in Molecular Biology</i> , 2015 , 1189, 79-97	1.4	5
10	Making biology transparent. <i>Nature Biotechnology</i> , 2014 , 32, 1104-5	44.5	4
9	Reconstruction of cell lineages and behaviors underlying arthropod limb outgrowth with multi-view light-sheet imaging and tracking		4
8	Author response: Multi-view light-sheet imaging and tracking with the MaMuT software reveals the cell lineage of a direct developing arthropod limb 2018 ,		3
7	Imaging far and wide. <i>ELife</i> , 2016 , 5,	8.9	2
6	Automated Reconstruction of Whole-Embryo Cell Lineages by Learning from Sparse Annotations		2
5	3D Haar-like elliptical features for object classification in microscopy 2013 ,		1
4	Quantitative measurements of chromatin modification dynamics during zygotic genome activation		1
3	Interkinetic nuclear migration in the zebrafish retina as a diffusive process		1
2	How to Make a Worm Twitch. <i>Biophysical Journal</i> , 2017 , 112, 1737-1738	2.9	
1	Functional Imaging with Light-Sheet Microscopy 2020 , 21-54		

