

Philipp J Keller

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

9,588
citations

76196

40
h-index

114278

63
g-index

76
all docs

76
docs citations

76
times ranked

10468
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstruction of Zebrafish Early Embryonic Development by Scanned Light Sheet Microscopy. <i>Science</i> , 2008, 322, 1065-1069.	6.0	1,397
2	Whole-brain functional imaging at cellular resolution using light-sheet microscopy. <i>Nature Methods</i> , 2013, 10, 413-420.	9.0	1,194
3	Fast, high-contrast imaging of animal development with scanned light sheet-based structured-illumination microscopy. <i>Nature Methods</i> , 2010, 7, 637-642.	9.0	515
4	A general method to fine-tune fluorophores for live-cell and in vivo imaging. <i>Nature Methods</i> , 2017, 14, 987-994.	9.0	502
5	Quantitative high-speed imaging of entire developing embryos with simultaneous multiview light-sheet microscopy. <i>Nature Methods</i> , 2012, 9, 755-763.	9.0	487
6	Tissue clearing and its applications in neuroscience. <i>Nature Reviews Neuroscience</i> , 2020, 21, 61-79.	4.9	350
7	In Toto Imaging and Reconstruction of Post-Implantation Mouse Development at the Single-Cell Level. <i>Cell</i> , 2018, 175, 859-876.e33.	13.5	348
8	Light-sheet functional imaging in fictively behaving zebrafish. <i>Nature Methods</i> , 2014, 11, 883-884.	9.0	294
9	Fast, accurate reconstruction of cell lineages from large-scale fluorescence microscopy data. <i>Nature Methods</i> , 2014, 11, 951-958.	9.0	253
10	Tandem fluorescent protein timers for in vivo analysis of protein dynamics. <i>Nature Biotechnology</i> , 2012, 30, 708-714.	9.4	239
11	Visualizing Whole-Brain Activity and Development at the Single-Cell Level Using Light-Sheet Microscopy. <i>Neuron</i> , 2015, 85, 462-483.	3.8	215
12	BigStitcher: reconstructing high-resolution image datasets of cleared and expanded samples. <i>Nature Methods</i> , 2019, 16, 870-874.	9.0	214
13	Adaptive light-sheet microscopy for long-term, high-resolution imaging in living organisms. <i>Nature Biotechnology</i> , 2016, 34, 1267-1278.	9.4	211
14	Whole-animal functional and developmental imaging with isotropic spatial resolution. <i>Nature Methods</i> , 2015, 12, 1171-1178.	9.0	203
15	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.	3.3	195
16	Whole-central nervous system functional imaging in larval <i>Drosophila</i> . <i>Nature Communications</i> , 2015, 6, 7924.	5.8	179
17	Imaging Morphogenesis: Technological Advances and Biological Insights. <i>Science</i> , 2013, 340, 1234-168.	6.0	168
18	Light sheet microscopy of living or cleared specimens. <i>Current Opinion in Neurobiology</i> , 2012, 22, 138-143.	2.0	160

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19	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
20	Real-Time Three-Dimensional Cell Segmentation in Large-Scale Microscopy Data of Developing Embryos. <i>Developmental Cell</i> , 2016, 36, 225-240.	3.1	156
21	Whole-Brain Profiling of Cells and Circuits in Mammals by Tissue Clearing and Light-Sheet Microscopy. <i>Neuron</i> , 2020, 106, 369-387.	3.8	145
22	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, .	2.8	134
23	Efficient processing and analysis of large-scale light-sheet microscopy data. <i>Nature Protocols</i> , 2015, 10, 1679-1696.	5.5	109
24	Life sciences require the third dimension. <i>Current Opinion in Cell Biology</i> , 2006, 18, 117-124.	2.6	99
25	Light-Sheet Microscopy and Its Potential for Understanding Developmental Processes. <i>Annual Review of Cell and Developmental Biology</i> , 2019, 35, 655-681.	4.0	98
26	Development of the annelid axochord: Insights into notochord evolution. <i>Science</i> , 2014, 345, 1365-1368.	6.0	90
27	Characterization of a common progenitor pool of the epicardium and myocardium. <i>Science</i> , 2021, 371, .	6.0	88
28	Histone H3K27 acetylation precedes active transcription during zebrafish zygotic genome activation as revealed by live-cell analysis. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	81
29	Spore number control and breeding in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Biology</i> , 2005, 171, 627-640.	2.3	73
30	Single-Cell Reconstruction of Emerging Population Activity in an Entire Developing Circuit. <i>Cell</i> , 2019, 179, 355-372.e23.	13.5	72
31	Reconstructing embryonic development. <i>Genesis</i> , 2011, 49, 488-513.	0.8	70
32	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
33	Shedding light on the system: studying embryonic development with light sheet microscopy. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 558-565.	1.5	65
34	Light-sheet imaging for systems neuroscience. <i>Nature Methods</i> , 2015, 12, 27-29.	9.0	62
35	Brain-wide circuit interrogation at the cellular level guided by online analysis of neuronal function. <i>Nature Methods</i> , 2018, 15, 1117-1125.	9.0	54
36	Digital Scanned Laser Light-Sheet Fluorescence Microscopy (DSLIM) of Zebrafish and <i>Drosophila</i> Embryonic Development. <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot065839.	0.2	48

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37	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
38	Fast and robust optical flow for time-lapse microscopy using super-voxels. <i>Bioinformatics</i> , 2013, 29, 373-380.	1.8	47
39	Nlcam modulates midline convergence during anterior neural plate morphogenesis. <i>Developmental Biology</i> , 2010, 339, 14-25.	0.9	46
40	Segregation of yeast nuclear pores. <i>Nature</i> , 2010, 466, E1-E1.	13.7	45
41	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, 2107-2117.	2.9	45
42	Emerging Imaging and Genomic Tools for Developmental Systems Biology. <i>Developmental Cell</i> , 2016, 36, 597-610.	3.1	45
43	Digital Scanned Laser Light Sheet Fluorescence Microscopy. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.top78.	0.2	40
44	Three-dimensional preparation and imaging reveal intrinsic microtubule properties. <i>Nature Methods</i> , 2007, 4, 843-846.	9.0	39
45	In vivo imaging of zebrafish embryogenesis. <i>Methods</i> , 2013, 62, 268-278.	1.9	38
46	Repulsive cues combined with physical barriers and cell-cell adhesion determine progenitor cell positioning during organogenesis. <i>Nature Communications</i> , 2016, 7, 11288.	5.8	38
47	Metabolic Regulation of Developmental Cell Cycles and Zygotic Transcription. <i>Current Biology</i> , 2019, 29, 1193-1198.e5.	1.8	35
48	A practical guide to adaptive light-sheet microscopy. <i>Nature Protocols</i> , 2018, 13, 2462-2500.	5.5	34
49	Towards comprehensive cell lineage reconstructions in complex organisms using light-sheet microscopy. <i>Development Growth and Differentiation</i> , 2013, 55, 563-578.	0.6	30
50	Nud1p, the yeast homolog of Centriolin, regulates spindle pole body inheritance in meiosis. <i>EMBO Journal</i> , 2006, 25, 3856-3868.	3.5	28
51	Evolution of Mutational Robustness in the Yeast Genome: A Link to Essential Genes and Meiotic Recombination Hotspots. <i>PLoS Genetics</i> , 2009, 5, e1000533.	1.5	27
52	Three-Dimensional Microtubule Behavior in Xenopus Egg Extracts Reveals Four Dynamic States and State-Dependent Elastic Properties. <i>Biophysical Journal</i> , 2008, 95, 1474-1486.	0.2	26
53	A computational statistics approach for estimating the spatial range of morphogen gradients. <i>Development (Cambridge)</i> , 2011, 138, 4867-4874.	1.2	24
54	In Vivo glucose imaging in multiple model organisms with an engineered single-wavelength sensor. <i>Cell Reports</i> , 2021, 35, 109284.	2.9	24

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55	Light Sheet Microscopy in Cell Biology. <i>Methods in Molecular Biology</i> , 2012, 931, 123-137.	0.4	23
56	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.	1.2	19
57	Nuclear crowding and nonlinear diffusion during interkinetic nuclear migration in the zebrafish retina. <i>ELife</i> , 2020, 9, .	2.8	15
58	A Preferred Curvature-Based Continuum Mechanics Framework for Modeling Embryogenesis. <i>Biophysical Journal</i> , 2018, 114, 267-277.	0.2	13
59	Live imaging of nervous system development and function using light-sheet microscopy. <i>Molecular Reproduction and Development</i> , 2015, 82, 605-618.	1.0	11
60	Light Sheet-Based Imaging and Analysis of Early Embryogenesis in the Fruit Fly. <i>Methods in Molecular Biology</i> , 2015, 1189, 79-97.	0.4	7
61	Making biology transparent. <i>Nature Biotechnology</i> , 2014, 32, 1104-1105.	9.4	5
62	3D Haar-like elliptical features for object classification in microscopy. , 2013, , .		3
63	Imaging far and wide. <i>ELife</i> , 2016, 5, .	2.8	3
64	The zebrafish digital embryo: in toto reconstruction of zebrafish early embryonic development with digital scanned laser light sheet fluorescence microscopy. , 2009, , .		1
65	Reconstructing Nervous System Development and Function with Light-Sheet Microscopy. , 2015, , .		0
66	Whole-animal imaging with high spatio-temporal resolution. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
67	How to Make a Worm Twitch. <i>Biophysical Journal</i> , 2017, 112, 1737-1738.	0.2	0