Philipp J Keller

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8568102/philipp-j-keller-publications-by-year.pdf

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

71	6,689	37	76
papers	citations	h-index	g-index
76	8,650 ext. citations	15.4	6.22
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
71	Characterization of a common progenitor pool of the epicardium and myocardium. <i>Science</i> , 2021 , 371,	33.3	26
70	In vivo glucose imaging in multiple model organisms with an engineered single-wavelength sensor. <i>Cell Reports</i> , 2021 , 35, 109284	10.6	7
69	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
68	Nuclear crowding and nonlinear diffusion during interkinetic nuclear migration in the zebrafish retina. <i>ELife</i> , 2020 , 9,	8.9	8
67	Functional Imaging with Light-Sheet Microscopy 2020 , 21-54		
66	Tissue clearing and its applications in heuroscience. <i>Nature Reviews Neuroscience</i> , 2020 , 21, 61-79	13.5	178
65	Single-Cell Reconstruction of Emerging Population Activity in an Entire Developing Circuit. <i>Cell</i> , 2019 , 179, 355-372.e23	56.2	44
64	Metabolic Regulation of Developmental Cell Cycles and Zygotic Transcription. <i>Current Biology</i> , 2019 , 29, 1193-1198.e5	6.3	22
63	BigStitcher: reconstructing high-resolution image datasets of cleared and expanded samples. <i>Nature Methods</i> , 2019 , 16, 870-874	21.6	104
62	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
61	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
60	A Preferred Curvature-Based Continuum Mechanics Framework for Modeling Embryogenesis. <i>Biophysical Journal</i> , 2018 , 114, 267-277	2.9	6
59	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
58	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
57	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
56	A practical guide to adaptive light-sheet microscopy. <i>Nature Protocols</i> , 2018 , 13, 2462-2500	18.8	23
55	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

54	How to Make a Worm Twitch. Biophysical Journal, 2017, 112, 1737-1738	2.9	
53	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
52	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
51	Adaptive light-sheet microscopy for long-term, high-resolution imaging in living organisms. <i>Nature Biotechnology</i> , 2016 , 34, 1267-1278	44.5	142
50	Emerging Imaging and Genomic Tools for Developmental Systems Biology. <i>Developmental Cell</i> , 2016 , 36, 597-610	10.2	37
49	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
48	Imaging far and wide. <i>ELife</i> , 2016 , 5,	8.9	2
47	Light-sheet imaging for systems neuroscience. <i>Nature Methods</i> , 2015 , 12, 27-9	21.6	47
46	Efficient processing and analysis of large-scale light-sheet microscopy data. <i>Nature Protocols</i> , 2015 , 10, 1679-96	18.8	85
45	Whole-animal functional and developmental imaging with isotropic spatial resolution. <i>Nature Methods</i> , 2015 , 12, 1171-8	21.6	148
44	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
43	Whole-central nervous system functional imaging in larval Drosophila. <i>Nature Communications</i> , 2015 , 6, 7924	17.4	126
42	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
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, 2107-17	10.6	37
40	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
39	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
38	Making biology transparent. <i>Nature Biotechnology</i> , 2014 , 32, 1104-5	44.5	4
37	Fast, accurate reconstruction of cell lineages from large-scale fluorescence microscopy data. <i>Nature Methods</i> , 2014 , 11, 951-8	21.6	200

36	Light-sheet functional imaging in fictively behaving zebrafish. <i>Nature Methods</i> , 2014 , 11, 883-4	21.6	194
35	Development of the annelid axochord: insights into notochord evolution. <i>Science</i> , 2014 , 345, 1365-8	33.3	74
34	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
33	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
32	Imaging morphogenesis: technological advances and biological insights. <i>Science</i> , 2013 , 340, 1234168	33.3	128
31	In vivo imaging of zebrafish embryogenesis. <i>Methods</i> , 2013 , 62, 268-78	4.6	31
30	Whole-brain functional imaging at cellular resolution using light-sheet microscopy. <i>Nature Methods</i> , 2013 , 10, 413-20	21.6	831
29	Light sheet microscopy in cell biology. <i>Methods in Molecular Biology</i> , 2013 , 931, 123-37	1.4	19
28	Towards comprehensive cell lineage reconstructions in complex organisms using light-sheet microscopy. <i>Development Growth and Differentiation</i> , 2013 , 55, 563-78	3	24
27	Fast and robust optical flow for time-lapse microscopy using super-voxels. <i>Bioinformatics</i> , 2013 , 29, 373	- 8 0	41
26	3D Haar-like elliptical features for object classification in microscopy 2013 ,		1
25	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
24	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
23	Tandem fluorescent protein timers for in vivo analysis of protein dynamics. <i>Nature Biotechnology</i> , 2012 , 30, 708-14	44.5	172
22	Light sheet microscopy of living or cleared specimens. Current Opinion in Neurobiology, 2012, 22, 138-43	7.6	126
21	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
20	Reconstructing embryonic development. <i>Genesis</i> , 2011 , 49, 488-513	1.9	61
19	A computational statistics approach for estimating the spatial range of morphogen gradients. <i>Development (Cambridge)</i> , 2011 , 138, 4867-74	6.6	23

18	Digital scanned laser light-sheet fluorescence microscopy (DSLM) of zebrafish and Drosophila embryonic development. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 1235-43	1.2	40	
17	Segregation of yeast nuclear pores. <i>Nature</i> , 2010 , 466, E1	50.4	37	
16	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	
15	Digital scanned laser light sheet fluorescence microscopy. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pd	lb. <u>to</u> p7	833	
14	Nlcam modulates midline convergence during anterior neural plate morphogenesis. <i>Developmental Biology</i> , 2010 , 339, 14-25	3.1	40	
13	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	
12	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	
11	Three-dimensional microtubule behavior in Xenopus egg extracts reveals four dynamic states and state-dependent elastic properties. <i>Biophysical Journal</i> , 2008 , 95, 1474-86	2.9	21	
10	Reconstruction of zebrafish early embryonic development by scanned light sheet microscopy. <i>Science</i> , 2008 , 322, 1065-9	33.3	1075	
9	Three-dimensional preparation and imaging reveal intrinsic microtubule properties. <i>Nature Methods</i> , 2007 , 4, 843-6	21.6	34	
8	Life sciences require the third dimension. Current Opinion in Cell Biology, 2006, 18, 117-24	9	72	
7	Nud1p, the yeast homolog of Centriolin, regulates spindle pole body inheritance in meiosis. <i>EMBO Journal</i> , 2006 , 25, 3856-68	13	23	
6	Spore number control and breeding in Saccharomyces cerevisiae: a key role for a self-organizing system. <i>Journal of Cell Biology</i> , 2005 , 171, 627-40	7.3	60	
5	Quantitative measurements of chromatin modification dynamics during zygotic genome activation		1	
4	Reconstruction of cell lineages and behaviors underlying arthropod limb outgrowth with multi-view light-sheet imaging and tracking		4	
3	BigStitcher: Reconstructing high-resolution image datasets of cleared and expanded samples		12	
2	Interkinetic nuclear migration in the zebra1sh retina as a diffusive process		1	
1	Automated Reconstruction of Whole-Embryo Cell Lineages by Learning from Sparse Annotations		2	