

Stephan Preibisch

List of Publications by Year in Descending Order

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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.

46
papers

32,013
citations

21
h-index

54
g-index

54
ext. papers

45,573
ext. citations

10.5
avg, IF

6.55
L-index

#	Paper	IF	Citations
46	The H4K20 demethylase DPY-21 regulates the dynamics of condensin DC binding.. <i>Journal of Cell Science</i> , 2021 ,	5.3	3
45	Light sheet fluorescence microscopy. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		15
44	FRC-QE: A robust and comparable 3D microscopy image quality metric for cleared organoids. <i>Bioinformatics</i> , 2021 ,	7.2	2
43	Dual-view light-sheet imaging through a tilted glass interface using a deformable mirror. <i>Biomedical Optics Express</i> , 2021 , 12, 2186-2203	3.5	2
42	Regulatory encoding of quantitative variation in spatial activity of a enhancer. <i>Science Advances</i> , 2020 , 6,	14.3	5
41	MTrack: Automated Detection, Tracking, and Analysis of Dynamic Microtubules. <i>Scientific Reports</i> , 2019 , 9, 3794	4.9	15
40	Oscillations of MyoD and Hes1 proteins regulate the maintenance of activated muscle stem cells. <i>Genes and Development</i> , 2019 , 33, 524-535	12.6	34
39	BigStitcher: reconstructing high-resolution image datasets of cleared and expanded samples. <i>Nature Methods</i> , 2019 , 16, 870-874	21.6	104
38	Stochastic transcription in the p53-mediated response to DNA damage is modulated by burst frequency. <i>Molecular Systems Biology</i> , 2019 , 15, e9068	12.2	10
37	Resolving titin's lifecycle and the spatial organization of protein turnover in mouse cardiomyocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25126-25136	11.5	17
36	Light-microscopy methods in <i>C. elegans</i> research. <i>Current Opinion in Systems Biology</i> , 2019 , 13, 82-92	3.2	8
35	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
34	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
33	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
32	Using Light Sheet Fluorescence Microscopy to Image Zebrafish Eye Development. <i>Journal of Visualized Experiments</i> , 2016 , e53966	1.6	21
31	An automated workflow for parallel processing of large multiview SPIM recordings. <i>Bioinformatics</i> , 2016 , 32, 1112-4	7.2	28
30	Nuclear accessibility of β actin mRNA is measured by 3D single-molecule real-time tracking. <i>Journal of Cell Biology</i> , 2015 , 209, 609-19	7.3	32

29	BigDataViewer: visualization and processing for large image data sets. <i>Nature Methods</i> , 2015 , 12, 481-3	21.6	171
28	Efficient Bayesian-based multiview deconvolution. <i>Nature Methods</i> , 2014 , 11, 645-8	21.6	154
27	Bioimage Informatics in the context of Drosophila research. <i>Methods</i> , 2014 , 68, 60-73	4.6	21
26	OpenSPIM: an open-access light-sheet microscopy platform. <i>Nature Methods</i> , 2013 , 10, 598-9	21.6	215
25	TrakEM2 software for neural circuit reconstruction. <i>PLoS ONE</i> , 2012 , 7, e38011	3.7	564
24	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012 , 9, 676-82	21.6	27799
23	ImgLib2--generic image processing in Java. <i>Bioinformatics</i> , 2012 , 28, 3009-11	7.2	89
22	Restoration of uneven illumination in light sheet microscopy images. <i>Microscopy and Microanalysis</i> , 2011 , 17, 607-13	0.5	6
21	Gene expression divergence recapitulates the developmental hourglass model. <i>Nature</i> , 2010 , 468, 811-4	50.4	280
20	Software for bead-based registration of selective plane illumination microscopy data. <i>Nature Methods</i> , 2010 , 7, 418-9	21.6	269
19	Planar cell polarity signalling regulates cell adhesion properties in progenitors of the zebrafish laterality organ. <i>Development (Cambridge)</i> , 2010 , 137, 3459-68	6.6	49
18	An integrated micro- and macroarchitectural analysis of the Drosophila brain by computer-assisted serial section electron microscopy. <i>PLoS Biology</i> , 2010 , 8, e1000502	9.7	247
17	Global analysis of nascent RNA reveals transcriptional pausing in terminal exons. <i>Molecular Cell</i> , 2010 , 40, 571-81	17.6	192
16	Calibration of microarray gene-expression data. <i>Methods in Molecular Biology</i> , 2010 , 576, 375-407	1.4	14
15	Bead-based mosaicing of single plane illumination microscopy images using geometric local descriptor matching 2009 ,		11
14	Globally optimal stitching of tiled 3D microscopic image acquisitions. <i>Bioinformatics</i> , 2009 , 25, 1463-5	7.2	1339
13	"Hook"-calibration of GeneChip-microarrays: theory and algorithm. <i>Algorithms for Molecular Biology</i> , 2008 , 3, 12	1.8	24
12	"Hook"-calibration of GeneChip-microarrays: chip characteristics and expression measures. <i>Algorithms for Molecular Biology</i> , 2008 , 3, 11	1.8	20

11	Mosaicing of single plane illumination microscopy images using groupwise registration and fast content-based image fusion 2008 ,		8
10	GeneChip microarrays: Signal intensities, RNA concentrations and probe sequences. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S537-S566	1.8	17
9	Base pair interactions and hybridization isotherms of matched and mismatched oligonucleotide probes on microarrays. <i>Langmuir</i> , 2005 , 21, 9287-302	4	37
8	Specific and nonspecific hybridization of oligonucleotide probes on microarrays. <i>Biophysical Journal</i> , 2005 , 89, 337-52	2.9	56
7	Deciphering the regulatory logic of a <i>Drosophila</i> enhancer through systematic sequence mutagenesis and quantitative image analysis		2
6	Reconstruction of cell lineages and behaviors underlying arthropod limb outgrowth with multi-view light-sheet imaging and tracking		4
5	FRC-QE: A robust and comparable 3D microscopy image quality metric for cleared organoids		1
4	BigStitcher: Reconstructing high-resolution image datasets of cleared and expanded samples		12
3	RS-FISH: Precise, interactive and scalable smFISH spot detection using Radial Symmetry		4
2	Automated Reconstruction of Whole-Embryo Cell Lineages by Learning from Sparse Annotations		2
1	Best practice standards for circular RNA research. <i>Nature Methods</i> ,	21.6	1