

Stephan Preibisch

List of Publications by Year in descending order

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39
papers

54,041
citations

236925

25
h-index

315739

38
g-index

54
all docs

54
docs citations

54
times ranked

92386
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiji: an open-source platform for biological-image analysis. Nature Methods, 2012, 9, 676-682.	19.0	47,818
2	Globally optimal stitching of tiled 3D microscopic image acquisitions. Bioinformatics, 2009, 25, 1463-1465.	4.1	1,970
3	TrakEM2 Software for Neural Circuit Reconstruction. PLoS ONE, 2012, 7, e38011.	2.5	832
4	Gene expression divergence recapitulates the developmental hourglass model. Nature, 2010, 468, 811-814.	27.8	364
5	Software for bead-based registration of selective plane illumination microscopy data. Nature Methods, 2010, 7, 418-419.	19.0	354
6	OpenSPIM: an open-access light-sheet microscopy platform. Nature Methods, 2013, 10, 598-599.	19.0	312
7	An Integrated Micro- and Macroarchitectural Analysis of the Drosophila Brain by Computer-Assisted Serial Section Electron Microscopy. PLoS Biology, 2010, 8, e1000502.	5.6	308
8	BigDataViewer: visualization and processing for large image data sets. Nature Methods, 2015, 12, 481-483.	19.0	256
9	Efficient Bayesian-based multiview deconvolution. Nature Methods, 2014, 11, 645-648.	19.0	232
10	Global Analysis of Nascent RNA Reveals Transcriptional Pausing in Terminal Exons. Molecular Cell, 2010, 40, 571-581.	9.7	218
11	BigStitcher: reconstructing high-resolution image datasets of cleared and expanded samples. Nature Methods, 2019, 16, 870-874.	19.0	214
12	Multi-view light-sheet imaging and tracking with the MaMuT software reveals the cell lineage of a direct developing arthropod limb. ELife, 2018, 7, .	6.0	134
13	ImgLib2“generic image processing in Java. Bioinformatics, 2012, 28, 3009-3011.	4.1	132
14	Light sheet fluorescence microscopy. Nature Reviews Methods Primers, 2021, 1, .	21.2	105
15	Specific and Nonspecific Hybridization of Oligonucleotide Probes on Microarrays. Biophysical Journal, 2005, 89, 337-352.	0.5	61
16	Oscillations of MyoD and Hes1 proteins regulate the maintenance of activated muscle stem cells. Genes and Development, 2019, 33, 524-535.	5.9	60
17	Planar cell polarity signalling regulates cell adhesion properties in progenitors of the zebrafish laterality organ. Development (Cambridge), 2010, 137, 3459-3468.	2.5	58
18	Best practice standards for circular RNA research. Nature Methods, 2022, 19, 1208-1220.	19.0	58

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19	Brain-wide circuit interrogation at the cellular level guided by online analysis of neuronal function. Nature Methods, 2018, 15, 1117-1125.	19.0	54
20	Nuclear accessibility of β -actin mRNA is measured by 3D single-molecule real-time tracking. Journal of Cell Biology, 2015, 209, 609-619.	5.2	48
21	Base Pair Interactions and Hybridization Isotherms of Matched and Mismatched Oligonucleotide Probes on Microarrays. Langmuir, 2005, 21, 9287-9302.	3.5	41
22	Using Light Sheet Fluorescence Microscopy to Image Zebrafish Eye Development. Journal of Visualized Experiments, 2016, , e53966.	0.3	40
23	An automated workflow for parallel processing of large multiview SPIM recordings. Bioinformatics, 2016, 32, 1112-1114.	4.1	33
24	MTrack: Automated Detection, Tracking, and Analysis of Dynamic Microtubules. Scientific Reports, 2019, 9, 3794.	3.3	30
25	Resolving titin's lifecycle and the spatial organization of protein turnover in mouse cardiomyocytes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25126-25136.	7.1	30
26	"Hook"-calibration of GeneChip-microarrays: Theory and algorithm. Algorithms for Molecular Biology, 2008, 3, 12.	1.2	28
27	Stochastic transcription in the p53-mediated response to $\langle \text{scp} \rangle \text{DNA} \langle / \text{scp} \rangle$ damage is modulated by burst frequency. Molecular Systems Biology, 2019, 15, e9068.	7.2	27
28	"Hook"-calibration of GeneChip-microarrays: Chip characteristics and expression measures. Algorithms for Molecular Biology, 2008, 3, 11.	1.2	23
29	Bioimage Informatics in the context of Drosophila research. Methods, 2014, 68, 60-73.	3.8	22
30	GeneChip microarrays' signal intensities, RNA concentrations and probe sequences. Journal of Physics Condensed Matter, 2006, 18, S537-S566.	1.8	18
31	Regulatory encoding of quantitative variation in spatial activity of a <i>Drosophila</i> enhancer. Science Advances, 2020, 6, .	10.3	18
32	Calibration of Microarray Gene-Expression Data. Methods in Molecular Biology, 2009, 576, 375-407.	0.9	18
33	Light-microscopy methods in C. elegans research. Current Opinion in Systems Biology, 2019, 13, 82-92.	2.6	16
34	Mosaicing of single plane illumination microscopy images using groupwise registration and fast content-based image fusion. , 2008, , .		11
35	Bead-based mosaicing of single plane illumination microscopy images using geometric local descriptor matching. Proceedings of SPIE, 2009, , .	0.8	11
36	Dual-view light-sheet imaging through a tilted glass interface using a deformable mirror. Biomedical Optics Express, 2021, 12, 2186.	2.9	10

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37	Restoration of Uneven Illumination in Light Sheet Microscopy Images. Microscopy and Microanalysis, 2011, 17, 607-613.	0.4	7
38	FRC-QE: a robust and comparable 3D microscopy image quality metric for cleared organoids. Bioinformatics, 2021, 37, 3088-3090.	4.1	7
39	The histone H4 lysine 20 demethylase DPY-21 regulates the dynamics of condensin DC binding. Journal of Cell Science, 2022, 135, .	2.0	6