

Stephan Saalfeld

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

55,787
citations

279701

23
h-index

434063

31
g-index

57
all docs

57
docs citations

57
times ranked

92239
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012, 9, 676-682.	9.0	47,818
2	Globally optimal stitching of tiled 3D microscopic image acquisitions. <i>Bioinformatics</i> , 2009, 25, 1463-1465.	1.8	1,970
3	TrakEM2 Software for Neural Circuit Reconstruction. <i>PLoS ONE</i> , 2012, 7, e38011.	1.1	832
4	A Complete Electron Microscopy Volume of the Brain of Adult <i>Drosophila melanogaster</i> . <i>Cell</i> , 2018, 174, 730-743.e22.	13.5	731
5	A connectome and analysis of the adult <i>Drosophila</i> central brain. <i>ELife</i> , 2020, 9, .	2.8	596
6	Software for bead-based registration of selective plane illumination microscopy data. <i>Nature Methods</i> , 2010, 7, 418-419.	9.0	354
7	CATMAID: collaborative annotation toolkit for massive amounts of image data. <i>Bioinformatics</i> , 2009, 25, 1984-1986.	1.8	333
8	An Integrated Micro- and Macroarchitectural Analysis of the <i>Drosophila</i> Brain by Computer-Assisted Serial Section Electron Microscopy. <i>PLoS Biology</i> , 2010, 8, e1000502.	2.6	308
9	Whole-brain serial-section electron microscopy in larval zebrafish. <i>Nature</i> , 2017, 545, 345-349.	13.7	282
10	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. <i>Science</i> , 2019, 363, .	6.0	277
11	Elastic volume reconstruction from series of ultra-thin microscopy sections. <i>Nature Methods</i> , 2012, 9, 717-720.	9.0	265
12	BigDataViewer: visualization and processing for large image data sets. <i>Nature Methods</i> , 2015, 12, 481-483.	9.0	256
13	Quantitative neuroanatomy for connectomics in <i>Drosophila</i> . <i>ELife</i> , 2016, 5, .	2.8	256
14	ImgLib2â€”generic image processing in Java. <i>Bioinformatics</i> , 2012, 28, 3009-3011.	1.8	132
15	Whole-cell organelle segmentation in volume electron microscopy. <i>Nature</i> , 2021, 599, 141-146.	13.7	127
16	Large Scale Image Segmentation with Structured Loss Based Deep Learning for Connectome Reconstruction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019, 41, 1669-1680.	9.7	126
17	As-rigid-as-possible mosaicking and serial section registration of large ssTEM datasets. <i>Bioinformatics</i> , 2010, 26, i57-i63.	1.8	124
18	Systematic imaging reveals features and changing localization of mRNAs in <i>Drosophila</i> development. <i>ELife</i> , 2015, 4, .	2.8	123

#	ARTICLE	IF	CITATIONS
19	Robust registration of calcium images by learned contrast synthesis. , 2016, , .		96
20	Automatic detection of synaptic partners in a whole-brain <i>Drosophila</i> electron microscopy data set. Nature Methods, 2021, 18, 771-774.	9.0	81
21	EASI-FISH for thick tissue defines lateral hypothalamus spatio-molecular organization. Cell, 2021, 184, 6361-6377.e24.	13.5	72
22	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. PLoS ONE, 2020, 15, e0236495.	1.1	67
23	Identifying Neuronal Lineages of <i>Drosophila</i> by Sequence Analysis of Axon Tracts. Journal of Neuroscience, 2010, 30, 7538-7553.	1.7	50
24	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. Neuron, 2016, 92, 622-627.	3.8	46
25	Synaptic Cleft Segmentation in Non-isotropic Volume Electron Microscopy of the Complete <i>Drosophila</i> Brain. Lecture Notes in Computer Science, 2018, , 317-325.	1.0	45
26	PreMosa: extracting 2D surfaces from 3D microscopy mosaics. Bioinformatics, 2017, 33, 2563-2569.	1.8	34
27	Image-based correction of continuous and discontinuous non-planar axial distortion in serial section microscopy. Bioinformatics, 2017, 33, 1379-1386.	1.8	20
28	Bead-based mosaicing of single plane illumination microscopy images using geometric local descriptor matching. Proceedings of SPIE, 2009, , .	0.8	11
29	<i>Drosophila</i> Brain Development: Closing the Gap between a Macroarchitectural and Microarchitectural Approach. Cold Spring Harbor Symposia on Quantitative Biology, 2009, 74, 235-248.	2.0	11
30	Transverse endoplasmic reticulum expansion in hereditary spastic paraplegia corticospinal axons. Human Molecular Genetics, 2022, 31, 2779-2795.	1.4	11
31	Post-acquisition image based compensation for thickness variation in microscopy section series. , 2015, , .		6
32	Computational methods for stitching, alignment, and artifact correction of serial section data. Methods in Cell Biology, 2019, 152, 261-276.	0.5	5
33	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. , 2020, 15, e0236495.		0
34	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. , 2020, 15, e0236495.		0
35	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. , 2020, 15, e0236495.		0
36	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. , 2020, 15, e0236495.		0