

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	Transverse endoplasmic reticulum expansion in hereditary spastic paraplegia corticospinal axons. <i>Human Molecular Genetics</i> , 2022, 31, 2779-2795.	1.4	11
2	Automatic detection of synaptic partners in a whole-brain <i>Drosophila</i> electron microscopy data set. <i>Nature Methods</i> , 2021, 18, 771-774.	9.0	81
3	Whole-cell organelle segmentation in volume electron microscopy. <i>Nature</i> , 2021, 599, 141-146.	13.7	127
4	EASI-FISH for thick tissue defines lateral hypothalamus spatio-molecular organization. <i>Cell</i> , 2021, 184, 6361-6377.e24.	13.5	72
5	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. <i>PLoS ONE</i> , 2020, 15, e0236495.	1.1	67
6	A connectome and analysis of the adult <i>Drosophila</i> central brain. <i>ELife</i> , 2020, 9, .	2.8	596
7	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. , 2020, 15, e0236495.		0
8	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. , 2020, 15, e0236495.		0
9	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. , 2020, 15, e0236495.		0
10	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord. , 2020, 15, e0236495.		0
11	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
12	Computational methods for stitching, alignment, and artifact correction of serial section data. <i>Methods in Cell Biology</i> , 2019, 152, 261-276.	0.5	5
13	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. <i>Science</i> , 2019, 363, .	6.0	277
14	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
15	Synaptic Cleft Segmentation in Non-isotropic Volume Electron Microscopy of the Complete <i>Drosophila</i> Brain. <i>Lecture Notes in Computer Science</i> , 2018, , 317-325.	1.0	45
16	Image-based correction of continuous and discontinuous non-planar axial distortion in serial section microscopy. <i>Bioinformatics</i> , 2017, 33, 1379-1386.	1.8	20
17	Whole-brain serial-section electron microscopy in larval zebrafish. <i>Nature</i> , 2017, 545, 345-349.	13.7	282
18	PreMosa: extracting 2D surfaces from 3D microscopy mosaics. <i>Bioinformatics</i> , 2017, 33, 2563-2569.	1.8	34

#	ARTICLE	IF	CITATIONS
19	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. <i>Neuron</i> , 2016, 92, 622-627.	3.8	46
20	Robust registration of calcium images by learned contrast synthesis. , 2016, , .		96
21	Quantitative neuroanatomy for connectomics in <i>Drosophila</i> . <i>ELife</i> , 2016, 5, .	2.8	256
22	BigDataViewer: visualization and processing for large image data sets. <i>Nature Methods</i> , 2015, 12, 481-483.	9.0	256
23	Post-acquisition image based compensation for thickness variation in microscopy section series. , 2015, , .		6
24	Systematic imaging reveals features and changing localization of mRNAs in <i>Drosophila</i> development. <i>ELife</i> , 2015, 4, .	2.8	123
25	ImgLib2â€”generic image processing in Java. <i>Bioinformatics</i> , 2012, 28, 3009-3011.	1.8	132
26	Elastic volume reconstruction from series of ultra-thin microscopy sections. <i>Nature Methods</i> , 2012, 9, 717-720.	9.0	265
27	TrakEM2 Software for Neural Circuit Reconstruction. <i>PLoS ONE</i> , 2012, 7, e38011.	1.1	832
28	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012, 9, 676-682.	9.0	47,818
29	Software for bead-based registration of selective plane illumination microscopy data. <i>Nature Methods</i> , 2010, 7, 418-419.	9.0	354
30	Identifying Neuronal Lineages of <i>Drosophila</i> by Sequence Analysis of Axon Tracts. <i>Journal of Neuroscience</i> , 2010, 30, 7538-7553.	1.7	50
31	As-rigid-as-possible mosaicking and serial section registration of large ssTEM datasets. <i>Bioinformatics</i> , 2010, 26, i57-i63.	1.8	124
32	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
33	Bead-based mosaicing of single plane illumination microscopy images using geometric local descriptor matching. <i>Proceedings of SPIE</i> , 2009, , .	0.8	11
34	CATMAID: collaborative annotation toolkit for massive amounts of image data. <i>Bioinformatics</i> , 2009, 25, 1984-1986.	1.8	333
35	Globally optimal stitching of tiled 3D microscopic image acquisitions. <i>Bioinformatics</i> , 2009, 25, 1463-1465.	1.8	1,970
36	<i>Drosophila</i> Brain Development: Closing the Gap between a Macroarchitectural and Microarchitectural Approach. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2009, 74, 235-248.	2.0	11