

Stephan Saalfeld

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.

47
papers

32,724
citations

24
h-index

57
g-index

57
ext. papers

46,847
ext. citations

16.1
avg, IF

6.56
L-index

#	Paper	IF	Citations
47	Whole-cell organelle segmentation in volume electron microscopy. <i>Nature</i> , 2021 , 599, 141-146	50.4	13
46	Automatic detection of synaptic partners in a whole-brain Drosophila electron microscopy data set. <i>Nature Methods</i> , 2021 , 18, 771-774	21.6	24
45	EASI-FISH for thick tissue defines lateral hypothalamus spatio-molecular organization. <i>Cell</i> , 2021 ,	56.2	5
44	An unbiased template of the Drosophila brain and ventral nerve cord. <i>PLoS ONE</i> , 2020 , 15, e0236495	3.7	24
43	A connectome and analysis of the adult central brain. <i>ELife</i> , 2020 , 9,	8.9	213
42	Author response: A connectome and analysis of the adult Drosophila central brain 2020 ,		3
41	An unbiased template of the Drosophila brain and ventral nerve cord 2020 , 15, e0236495		
40	An unbiased template of the Drosophila brain and ventral nerve cord 2020 , 15, e0236495		
39	An unbiased template of the Drosophila brain and ventral nerve cord 2020 , 15, e0236495		
38	An unbiased template of the Drosophila brain and ventral nerve cord 2020 , 15, e0236495		
37	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	13.3	76
36	Computational methods for stitching, alignment, and artifact correction of serial section data. <i>Methods in Cell Biology</i> , 2019 , 152, 261-276	1.8	5
35	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. <i>Science</i> , 2019 , 363,	33.3	181
34	A Complete Electron Microscopy Volume of the Brain of Adult Drosophila melanogaster. <i>Cell</i> , 2018 , 174, 730-743.e22	56.2	393
33	Synaptic Cleft Segmentation in Non-isotropic Volume Electron Microscopy of the Complete Drosophila Brain. <i>Lecture Notes in Computer Science</i> , 2018 , 317-325	0.9	26
32	Whole-brain serial-section electron microscopy in larval zebrafish. <i>Nature</i> , 2017 , 545, 345-349	50.4	172
31	PreMosa: extracting 2D surfaces from 3D microscopy mosaics. <i>Bioinformatics</i> , 2017 , 33, 2563-2569	7.2	19

30	Image-based correction of continuous and discontinuous non-planar axial distortion in serial section microscopy. <i>Bioinformatics</i> , 2017 , 33, 1379-1386	7.2	4
29	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. <i>Neuron</i> , 2016 , 92, 622-627	13.9	34
28	Robust registration of calcium images by learned contrast synthesis 2016 ,		42
27	Quantitative neuroanatomy for connectomics in Drosophila. <i>ELife</i> , 2016 , 5,	8.9	182
26	BigDataViewer: visualization and processing for large image data sets. <i>Nature Methods</i> , 2015 , 12, 481-3	21.6	171
25	Post-acquisition image based compensation for thickness variation in microscopy section series 2015 ,		4
24	Systematic imaging reveals features and changing localization of mRNAs in Drosophila development. <i>ELife</i> , 2015 , 4,	8.9	95
23	Elastic volume reconstruction from series of ultra-thin microscopy sections. <i>Nature Methods</i> , 2012 , 9, 717-20	21.6	184
22	TrakEM2 software for neural circuit reconstruction. <i>PLoS ONE</i> , 2012 , 7, e38011	3.7	564
21	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012 , 9, 676-82	21.6	27799
20	ImgLib2--generic image processing in Java. <i>Bioinformatics</i> , 2012 , 28, 3009-11	7.2	89
19	Software for bead-based registration of selective plane illumination microscopy data. <i>Nature Methods</i> , 2010 , 7, 418-9	21.6	269
18	Identifying neuronal lineages of Drosophila by sequence analysis of axon tracts. <i>Journal of Neuroscience</i> , 2010 , 30, 7538-53	6.6	46
17	As-rigid-as-possible mosaicking and serial section registration of large ssTEM datasets. <i>Bioinformatics</i> , 2010 , 26, i57-63	7.2	100
16	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
15	Bead-based mosaicing of single plane illumination microscopy images using geometric local descriptor matching 2009 ,		11
14	CATMAID: collaborative annotation toolkit for massive amounts of image data. <i>Bioinformatics</i> , 2009 , 25, 1984-6	7.2	222
13	Globally optimal stitching of tiled 3D microscopic image acquisitions. <i>Bioinformatics</i> , 2009 , 25, 1463-5	7.2	1339

12	Drosophila brain development: closing the gap between a macroarchitectural and microarchitectural approach. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2009 , 74, 235-48	3.9	9
11	Rapid reconstruction of neural circuits using tissue expansion and lattice light sheet microscopy		1
10	Cortical Column and Whole Brain Imaging of Neural Circuits with Molecular Contrast and Nanoscale Resolution		1
9	An unbiased template of the <i>Drosophila</i> brain and ventral nerve cord		15
8	Quantitative neuroanatomy for connectomics in <i>Drosophila</i>		22
7	A Complete Electron Microscopy Volume Of The Brain Of Adult <i>Drosophila melanogaster</i>		24
6	Automatic Detection of Synaptic Partners in a Whole-Brain <i>Drosophila</i> EM Dataset		17
5	A Connectome of the Adult <i>Drosophila</i> Central Brain		46
4	A Connectome and Analysis of the Adult <i>Drosophila</i> Central Brain		10
3	Automatic whole cell organelle segmentation in volumetric electron microscopy		6
2	Expansion-Assisted Iterative-FISH defines lateral hypothalamus spatio-molecular organization		1
1	Local Shape Descriptors for Neuron Segmentation		3