

Thomas Walter

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.

49 papers	3,544 citations	25 h-index	59 g-index
60 ext. papers	4,360 ext. citations	10.9 avg, IF	4.9 L-index

#	Paper	IF	Citations
49	FISH-quant v2: a scalable and modular tool for smFISH image analysis.. <i>Rna</i> , 2022 ,	5.8	2
48	A choreography of centrosomal mRNAs reveals a conserved localization mechanism involving active polysome transport. <i>Nature Communications</i> , 2021 , 12, 1352	17.4	14
47	Spatial transcriptomics for respiratory research and medicine. <i>European Respiratory Journal</i> , 2021 , 58,	13.6	2
46	The kinesin KIF1C transports APC-dependent mRNAs to cell protrusions. <i>Rna</i> , 2021 , 27, 1528-1544	5.8	6
45	A Dual Protein-mRNA Localization Screen Reveals Compartmentalized Translation and Widespread Co-translational RNA Targeting. <i>Developmental Cell</i> , 2020 , 54, 773-791.e5	10.2	33
44	Domain-invariant features for mechanism of action prediction in a multi-cell-line drug screen. <i>Bioinformatics</i> , 2020 , 36, 1607-1613	7.2	4
43	Human lymphoid organ cDC2 and macrophages play complementary roles in T follicular helper responses. <i>Journal of Experimental Medicine</i> , 2019 , 216, 1561-1581	16.6	36
42	Segmentation of Nuclei in Histopathology Images by Deep Regression of the Distance Map. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 448-459	11.7	158
41	A Deep Learning Approach To Identify MRNA Localization Patterns 2019 ,		2
40	Predicting Residual Cancer Burden In A Triple Negative Breast Cancer Cohort 2019 ,		1
39	2018 ,		1
38	A computational framework to study sub-cellular RNA localization. <i>Nature Communications</i> , 2018 , 9, 4584	17.4	29
37	Kernel Multitask Regression for Toxicogenetics. <i>Molecular Informatics</i> , 2017 , 36, 1700053	3.8	2
36	Nuclei segmentation in histopathology images using deep neural networks 2017 ,		67
35	New general features based on superpixels for image segmentation learning 2016 ,		9
34	ARHGEF17 is an essential spindle assembly checkpoint factor that targets Mps1 to kinetochores. <i>Journal of Cell Biology</i> , 2016 , 212, 647-59	7.3	14
33	smiFISH and FISH-quant - a flexible single RNA detection approach with super-resolution capability. <i>Nucleic Acids Research</i> , 2016 , 44, e165	20.1	158

32	Waterpixels. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 3707-16	8.7	66
31	A generic methodological framework for studying single cell motility in high-throughput time-lapse data. <i>Bioinformatics</i> , 2015 , 31, i320-8	7.2	13
30	Inferring an ontology of single cell motions from high-throughput microscopy data 2015 ,		1
29	Assessment of algorithms for mitosis detection in breast cancer histopathology images. <i>Medical Image Analysis</i> , 2015 , 20, 237-48	15.4	245
28	Prediction of human population responses to toxic compounds by a collaborative competition. <i>Nature Biotechnology</i> , 2015 , 33, 933-40	44.5	70
27	Spatial Repulsion Between Markers Improves Watershed Performance. <i>Lecture Notes in Computer Science</i> , 2015 , 194-202	0.9	3
26	MAP1S controls microtubule stability throughout the cell cycle in human cells. <i>Journal of Cell Science</i> , 2014 , 127, 5007-13	5.3	11
25	A genomic Multiprocess survey of machineries that control and link cell shape, microtubule organization, and cell-cycle progression. <i>Developmental Cell</i> , 2014 , 31, 227-239	10.2	26
24	Integration of biological data by kernels on graph nodes allows prediction of new genes involved in mitotic chromosome condensation. <i>Molecular Biology of the Cell</i> , 2014 , 25, 2522-36	3.5	36
23	Waterpixels: Superpixels based on the watershed transformation 2014 ,		9
22	Dynamical modelling of phenotypes in a genome-wide RNAi live-cell imaging assay. <i>BMC Bioinformatics</i> , 2013 , 14, 308	3.6	10
21	Mitotic lamin disassembly is triggered by lipid-mediated signaling. <i>Journal of Cell Biology</i> , 2012 , 198, 981-90	7.3	50
20	Micropilot: automation of fluorescence microscopy-based imaging for systems biology. <i>Nature Methods</i> , 2011 , 8, 246-9	21.6	107
19	Phenotypic profiling of the human genome by time-lapse microscopy reveals cell division genes. <i>Nature</i> , 2010 , 464, 721-7	50.4	668
18	Visualization of image data from cells to organisms. <i>Nature Methods</i> , 2010 , 7, S26-41	21.6	189
17	CellCognition: time-resolved phenotype annotation in high-throughput live cell imaging. <i>Nature Methods</i> , 2010 , 7, 747-54	21.6	256
16	Visualizing biological data-now and in the future. <i>Nature Methods</i> , 2010 , 7, S2-4	21.6	85
15	High-throughput microscopy using live mammalian cells. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.top84	21.6	5

14	Automatic identification and clustering of chromosome phenotypes in a genome wide RNAi screen by time-lapse imaging. <i>Journal of Structural Biology</i> , 2010 , 170, 1-9	3.4	42
13	Evaluation of automated fundus photograph analysis algorithms for detecting microaneurysms, haemorrhages and exudates, and of a computer-assisted diagnostic system for grading diabetic retinopathy. <i>Diabetes and Metabolism</i> , 2010 , 36, 213-20	5.4	65
12	EML3 is a nuclear microtubule-binding protein required for the correct alignment of chromosomes in metaphase. <i>Journal of Cell Science</i> , 2008 , 121, 1718-26	5.3	35
11	Reverse transfection on cell arrays for high content screening microscopy. <i>Nature Protocols</i> , 2007 , 2, 392-9	18.8	162
10	Redistribution of the neurosensory retina in inferior limited macular translocation: an evaluation using image registration. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2007 , 245, 437-42 ^{3.8}		2
9	Automatic detection of microaneurysms in color fundus images. <i>Medical Image Analysis</i> , 2007 , 11, 555-66 ^{5.4}		212
8	Anti-angiogenic properties of myo-inositol trispyrophosphate in ovo and growth reduction of implanted glioma. <i>FEBS Letters</i> , 2007 , 581, 962-6	3.8	24
7	Automatic Analysis of Color Fundus Photographs and Its Application to the Diagnosis of Diabetic Retinopathy 2005 , 315-368		8
6	A contribution of image processing to the diagnosis of diabetic retinopathy--detection of exudates in color fundus images of the human retina. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1236-43	11.7	477
5	Automatic Detection of Microaneurysms in Color Fundus Images of the Human Retina by Means of the Bounding Box Closing. <i>Lecture Notes in Computer Science</i> , 2002 , 210-220	0.9	26
4	Segmentation of Color Fundus Images of the Human Retina: Detection of the Optic Disc and the Vascular Tree Using Morphological Techniques. <i>Lecture Notes in Computer Science</i> , 2001 , 282-287	0.9	98
3	The kinesin KIF1C transports APC-dependent mRNAs to cell protrusions		2
2	A Localization Screen Reveals Translation Factories and Widespread Co-Translational Protein Targeting. <i>SSRN Electronic Journal</i> ,	1	1
1	FISH-quant v2: a scalable and modular analysis tool for smFISH image analysis		1