

Jason R Swedlow

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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.

110 papers	7,506 citations	41 h-index	86 g-index
139 ext. papers	8,635 ext. citations	12.2 avg, IF	5.61 L-index

#	Paper	IF	Citations
110	Metadata matters: access to image data in the real world. <i>Journal of Cell Biology</i> , 2010 , 189, 777-82	7.3	544
109	A role for the Adenomatous Polyposis Coli protein in chromosome segregation. <i>Nature Cell Biology</i> , 2001 , 3, 429-32	23.4	453
108	Aurora B regulates MCAK at the mitotic centromere. <i>Developmental Cell</i> , 2004 , 6, 253-68	10.2	431
107	Biological imaging software tools. <i>Nature Methods</i> , 2012 , 9, 697-710	21.6	377
106	Actin-dependent localization of an RNA encoding a cell-fate determinant in yeast. <i>Nature</i> , 1997 , 389, 90-3	50.4	335
105	OMERO: flexible, model-driven data management for experimental biology. <i>Nature Methods</i> , 2012 , 9, 245-53	21.6	313
104	A workingperson's guide to deconvolution in light microscopy. <i>BioTechniques</i> , 2001 , 31, 1076-8, 1080, 1082 passim	2.5	259
103	Mitotic mechanics: the auroras come into view. <i>Current Opinion in Cell Biology</i> , 2003 , 15, 672-83	9	249
102	Cajal body dynamics and association with chromatin are ATP-dependent. <i>Nature Cell Biology</i> , 2002 , 4, 502-8	23.4	232
101	The making of the mitotic chromosome: modern insights into classical questions. <i>Molecular Cell</i> , 2003 , 11, 557-69	17.6	223
100	In vivo analysis of Cajal body movement, separation, and joining in live human cells. <i>Journal of Cell Biology</i> , 2000 , 151, 1561-74	7.3	223
99	Informatics and quantitative analysis in biological imaging. <i>Science</i> , 2003 , 300, 100-2	33.3	214
98	Chromatin-associated protein phosphatase 1 regulates aurora-B and histone H3 phosphorylation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26656-65	5.4	201
97	The Open Microscopy Environment (OME) Data Model and XML file: open tools for informatics and quantitative analysis in biological imaging. <i>Genome Biology</i> , 2005 , 6, R47	18.3	186
96	Human CLASP1 is an outer kinetochore component that regulates spindle microtubule dynamics. <i>Cell</i> , 2003 , 113, 891-904	56.2	177
95	The Image Data Resource: A Bioimage Data Integration and Publication Platform. <i>Nature Methods</i> , 2017 , 14, 775-781	21.6	130
94	Time-lapse imaging reveals dynamic relocalization of PP1gamma throughout the mammalian cell cycle. <i>Molecular Biology of the Cell</i> , 2003 , 14, 107-17	3.5	122

93	Measuring tubulin content in <i>Toxoplasma gondii</i> : a comparison of laser-scanning confocal and wide-field fluorescence microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2014-9	11.5	119
92	ELYS/MEL-28 chromatin association coordinates nuclear pore complex assembly and replication licensing. <i>Current Biology</i> , 2007 , 17, 1657-62	6.3	110
91	Kinetochore alignment within the metaphase plate is regulated by centromere stiffness and microtubule depolymerases. <i>Journal of Cell Biology</i> , 2010 , 188, 665-79	7.3	106
90	Phosphorylation of threonine 156 of the mu2 subunit of the AP2 complex is essential for endocytosis in vitro and in vivo. <i>Current Biology</i> , 2001 , 11, 896-900	6.3	104
89	Sds22 regulates aurora B activity and microtubule-kinetochore interactions at mitosis. <i>Journal of Cell Biology</i> , 2010 , 191, 61-74	7.3	101
88	Evaluating performance in three-dimensional fluorescence microscopy. <i>Journal of Microscopy</i> , 2007 , 228, 390-405	1.9	99
87	Focal points for chromosome condensation and decondensation revealed by three-dimensional in vivo time-lapse microscopy. <i>Nature</i> , 1989 , 342, 293-6	50.4	99
86	Minimum information specification for in situ hybridization and immunohistochemistry experiments (MISFISHIE). <i>Nature Biotechnology</i> , 2008 , 26, 305-12	44.5	97
85	The SMC family: from chromosome condensation to dosage compensation. <i>Current Opinion in Cell Biology</i> , 1995 , 7, 329-36	9	88
84	Bioimage informatics for experimental biology. <i>Annual Review of Biophysics</i> , 2009 , 38, 327-46	21.1	82
83	Mitotic spindle orientation distinguishes stem cell and terminal modes of neuron production in the early spinal cord. <i>Development (Cambridge)</i> , 2007 , 134, 1943-54	6.6	79
82	Live cell imaging using wide-field microscopy and deconvolution. <i>Cell Structure and Function</i> , 2002 , 27, 335-41	2.2	75
81	Ubiquitylation-dependent localization of PLK1 in mitosis. <i>Nature Cell Biology</i> , 2013 , 15, 430-9	23.4	70
80	Phosphorylation regulates the dynamic interaction of RCC1 with chromosomes during mitosis. <i>Current Biology</i> , 2004 , 14, 1099-104	6.3	67
79	The Nup107-160 nucleoporin complex promotes mitotic events via control of the localization state of the chromosome passenger complex. <i>Molecular Biology of the Cell</i> , 2009 , 20, 5260-75	3.5	64
78	A call for public archives for biological image data. <i>Nature Methods</i> , 2018 , 15, 849-854	21.6	61
77	Bod1 regulates protein phosphatase 2A at mitotic kinetochores. <i>Nature Communications</i> , 2013 , 4, 2677	17.4	58
76	PHD1 links cell-cycle progression to oxygen sensing through hydroxylation of the centrosomal protein Cep192. <i>Developmental Cell</i> , 2013 , 26, 381-92	10.2	57

75	To 5D and beyond: quantitative fluorescence microscopy in the postgenomic era. <i>Traffic</i> , 2002 , 3, 29-36	5.7	47
74	Phosphorylation by aurora-B negatively regulates survivin function during mitosis. <i>Cell Cycle</i> , 2007 , 6, 1220-30	4.7	45
73	Bod1, a novel kinetochore protein required for chromosome biorientation. <i>Journal of Cell Biology</i> , 2007 , 179, 187-97	7.3	44
72	Open source bioimage informatics for cell biology. <i>Trends in Cell Biology</i> , 2009 , 19, 656-60	18.3	43
71	Phosphorylated DegU manipulates cell fate differentiation in the <i>Bacillus subtilis</i> biofilm. <i>Journal of Bacteriology</i> , 2014 , 196, 16-27	3.5	40
70	Quantitative fluorescence microscopy and image deconvolution. <i>Methods in Cell Biology</i> , 2007 , 81, 447-65	5.8	39
69	Quantitative analysis of digital microscope images. <i>Methods in Cell Biology</i> , 2007 , 81, 365-96	1.8	39
68	The Collection, Processing, and Display of Digital Three-Dimensional Images of Biological Specimens 1995 , 197-210		37
67	Data management challenges in three-dimensional EM. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 1203-7	17.6	34
66	Optimisation of the two-dimensional gel electrophoresis protocol using the Taguchi approach. <i>Proteome Science</i> , 2004 , 2, 6	2.6	34
65	Visualization of Biomedical Data. <i>Annual Review of Biomedical Data Science</i> , 2018 , 1, 275-304	5.6	34
64	A 3D cellular context for the macromolecular world. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 841-5	17.6	33
63	OMX: a new platform for multimodal, multichannel wide-field imaging. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 899-909	1.2	32
62	Temporal profiling of the chromatin proteome reveals system-wide responses to replication inhibition. <i>Current Biology</i> , 2008 , 18, 838-43	6.3	32
61	A novel reporter of notch signalling indicates regulated and random Notch activation during vertebrate neurogenesis. <i>BMC Biology</i> , 2011 , 9, 58	7.3	31
60	Quantitative fluorescence microscopy and image deconvolution. <i>Methods in Cell Biology</i> , 2013 , 114, 407-28		29
59	Innovation in biological microscopy: current status and future directions. <i>BioEssays</i> , 2012 , 34, 333-40	4.1	26
58	Modelling data across labs, genomes, space and time. <i>Nature Cell Biology</i> , 2006 , 8, 1190-4	23.4	25

57	Usability and User-Centered Design in Scientific Software Development. <i>IEEE Software</i> , 2009 , 26, 96-102	1.5	24
56	Open tools for storage and management of quantitative image data. <i>Methods in Cell Biology</i> , 2008 , 85, 555-70	1.8	24
55	Metadata management for high content screening in OMERO. <i>Methods</i> , 2016 , 96, 27-32	4.6	23
54	Web-based visualisation and analysis of 3D electron-microscopy data from EMDB and PDB. <i>Journal of Structural Biology</i> , 2013 , 184, 173-81	3.4	23
53	An open data ecosystem for cell migration research. <i>Trends in Cell Biology</i> , 2015 , 25, 55-8	18.3	21
52	How to be a mitotic chromosome. <i>Chromosome Research</i> , 2011 , 19, 307-19	4.4	21
51	Quantitative fluorescence microscopy and image deconvolution. <i>Methods in Cell Biology</i> , 2003 , 72, 349-67	7.8	21
50	Publishing and sharing multi-dimensional image data with OMERO. <i>Mammalian Genome</i> , 2015 , 26, 441-73	3.2	20
49	Chromosome structure inside the nucleus. <i>Current Opinion in Cell Biology</i> , 1993 , 5, 412-6	9	20
48	A global view of standards for open image data formats and repositories. <i>Nature Methods</i> , 2021 , 18, 1440-1446	11.8	18
47	QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. <i>Nature Methods</i> , 2021 , 18, 1423-1426	21.6	18
46	Full volume super-resolution imaging of thick mitotic spindle using 3D AO STED microscope. <i>Biomedical Optics Express</i> , 2019 , 10, 1999-2009	3.5	17
45	Development of the Minimum Information Specification for In Situ Hybridization and Immunohistochemistry Experiments (MISFISHIE). <i>OMICS A Journal of Integrative Biology</i> , 2006 , 10, 205-8	3.8	16
44	REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. <i>Nature Methods</i> , 2021 , 18, 1418-1422	21.6	16
43	Nuclear dynamics: where genes are and how they got there. <i>Genome Biology</i> , 2001 , 2, REVIEWS0002	18.3	15
42	BOD1 Is Required for Cognitive Function in Humans and Drosophila. <i>PLoS Genetics</i> , 2016 , 12, e1006022	6	15
41	CDK-dependent phosphorylation of PHD1 on serine 130 alters its substrate preference in cells. <i>Journal of Cell Science</i> , 2016 , 129, 191-205	5.3	13
40	OME-NGFF: a next-generation file format for expanding bioimaging data-access strategies. <i>Nature Methods</i> , 2021 , 18, 1496-1498	21.6	13

39	Killing with proficiency: Integrated post-translational regulation of an offensive Type VI secretion system. <i>PLoS Pathogens</i> , 2018 , 14, e1007230	7.6	12
38	Numerically Enhanced Stimulated Emission Depletion Microscopy with Adaptive Optics for Deep-Tissue Super-Resolved Imaging. <i>ACS Nano</i> , 2020 , 14, 394-405	16.7	12
37	Bringing Open Data to Whole Slide Imaging. <i>Lecture Notes in Computer Science</i> , 2019 , 2019, 3-10	0.9	11
36	QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. <i>Journal of Microscopy</i> , 2021 , 284, 56-73	1.9	11
35	The adenomatous polyposis coli protein contributes to normal compaction of mitotic chromatin. <i>PLoS ONE</i> , 2012 , 7, e38102	3.7	10
34	High-resolution live imaging of cell behavior in the developing neuroepithelium. <i>Journal of Visualized Experiments</i> , 2012 ,	1.6	10
33	OME-NGFF: scalable format strategies for interoperable bioimaging data		10
32	Community standards for open cell migration data. <i>GigaScience</i> , 2020 , 9,	7.6	9
31	Software tools, data structures, and interfaces for microscope imaging. <i>Cold Spring Harbor Protocols</i> , 2012 , 2012, 50-61	1.2	8
30	Finding an image in a haystack: the case for public image repositories. <i>Nature Cell Biology</i> , 2011 , 13, 183	23.4	8
29	The Ndc80 complex targets Bod1 to human mitotic kinetochores. <i>Open Biology</i> , 2017 , 7,	7	7
28	Advanced hardware and software tools for fast multidimensional imaging of living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16005-6	11.5	7
27	Quantitative analysis of digital microscope images. <i>Methods in Cell Biology</i> , 2013 , 114, 337-67	1.8	6
26	Chromosome condensation: DNA compaction in real time. <i>Current Biology</i> , 2004 , 14, R554-6	6.3	5
25	Fuzzy sequences, specific attachments? Chromosome dynamics. <i>Current Biology</i> , 1996 , 6, 544-7	6.3	4
24	The Open Microscopy Environment: A Collaborative Data Modeling and Software Development Project for Biological Image Informatics. <i>Principles and Practice</i> , 2007 , 71-92		4
23	OMERO and Bio-Formats 5: flexible access to large bioimaging datasets at scale 2015 ,		3
22	Fixation of Drosophila tissues for immunofluorescence. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 931-4	1.2	3

21	Immunolabeling of Drosophila embryos and tissues. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 998-1002	1.2	3
20	Community Standards for Open Cell Migration Data		3
19	OME Files - An open source reference library for the OME-XML metadata model and the OME-TIFF file format		3
18	The BioImage Archive - building a home for life-sciences microscopy data.. <i>Journal of Molecular Biology</i> , 2022 , 167505	6.5	3
17	Analysis of global RNA synthesis at the single cell level following hypoxia. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	2
16	In vivo imaging of mammalian cells: image acquisition and analysis. <i>Cold Spring Harbor Protocols</i> , 2009 , 2009, pdb.ip70	1.2	2
15	ISO 23494: Biotechnology [Provenance Information Model for Biological Specimen And Data. <i>Lecture Notes in Computer Science</i> , 2021 , 222-225	0.9	2
14	MITI minimum information guidelines for highly multiplexed tissue images.. <i>Nature Methods</i> , 2022 , 19, 262-267	21.6	2
13	The Open Microscopy Environment: open image informatics for the biological sciences 2016 ,		1
12	In vivo imaging of mammalian cells: cell engineering and viability. <i>Cold Spring Harbor Protocols</i> , 2009 , 2009, pdb.ip69	1.2	1
11	Building a scientific data grid with DiGS. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 2471-81	3	1
10	The Image Data Resource: A Scalable Platform for Biological Image Data Access, Integration, and Dissemination		
9	Big Data in Correlative Imaging 2019 , 211-222		
8	At the (kineto)chore, yeast really are like people. <i>Cell</i> , 2013 , 154, 959-961	56.2	
7	Open File Formats for High Content Analysis 2008 , 317-328		
6	Characterization and Use of Wide-Field Fluorescence Microscopy and Image Restoration in Quantitative Live Cell Imaging. <i>Microscopy and Microanalysis</i> , 2002 , 8, 266-267	0.5	
5	Defining the Tools: an Analysis of Laser Scanning Confocal and Wide-Field/Restoration Fluorescence Microscope Imaging. <i>Microscopy and Microanalysis</i> , 2001 , 7, 1002-1003	0.5	
4	Chromosome structure and dynamics as revealed by 3-D and 4-D imaging. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1991 , 49, 396-397		

- 3 Chromosome structure and dynamics as revealed by 3-D and 4-D imaging. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1992**, 50, 588-589
- 2 High-resolution 3-D and 4-D imaging using wide-field CCD-based microscopy. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1993**, 51, 150-151
- 1 The in vivo distribution and dynamics of DNA topoisomerase II in *Drosophila* embryonic nuclei and chromosomes. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1993**, 51, 74-75