

Seamus J Holden

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.

29
papers

1,813
citations

17
h-index

38
g-index

38
ext. papers

2,441
ext. citations

11.3
avg, IF

4.76
L-index

#	Paper	IF	Citations
29	FtsZ treadmilling is essential for Z-ring condensation and septal constriction initiation in <i>Bacillus subtilis</i> cell division. <i>Nature Communications</i> , 2021 , 12, 2448	17.4	10
28	Democratising deep learning for microscopy with ZeroCostDL4Mic. <i>Nature Communications</i> , 2021 , 12, 2276	17.4	69
27	Geometric principles underlying the proliferation of a model cell system. <i>Nature Communications</i> , 2020 , 11, 4149	17.4	7
26	Super-resolution fight club: assessment of 2D and 3D single-molecule localization microscopy software. <i>Nature Methods</i> , 2019 , 16, 387-395	21.6	123
25	Movement dynamics of divisome proteins and PBP2x:FtsW in cells of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3211-3220	11.5	59
24	Probing the mechanistic principles of bacterial cell division with super-resolution microscopy. <i>Current Opinion in Microbiology</i> , 2018 , 43, 84-91	7.9	20
23	Constriction Rate Modulation Can Drive Cell Size Control and Homeostasis in <i>C. crescentus</i> . <i>iScience</i> , 2018 , 4, 180-189	6.1	13
22	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. <i>Science</i> , 2017 , 355, 739-743	33.3	335
21	Functional dichotomy and distinct nanoscale assemblies of a cell cycle-controlled bipolar zinc-finger regulator. <i>ELife</i> , 2016 , 5,	8.9	14
20	Modularity and determinants of a (bi-)polarization control system from free-living and obligate intracellular bacteria. <i>ELife</i> , 2016 , 5,	8.9	16
19	PALMsiever: a tool to turn raw data into results for single-molecule localization microscopy. <i>Bioinformatics</i> , 2015 , 31, 797-8	7.2	25
18	Correction of a Depth-Dependent Lateral Distortion in 3D Super-Resolution Imaging. <i>PLoS ONE</i> , 2015 , 10, e0142949	3.7	24
17	FALCON: fast and unbiased reconstruction of high-density super-resolution microscopy data. <i>Scientific Reports</i> , 2014 , 4, 4577	4.9	90
16	High throughput 3D super-resolution microscopy reveals <i>Caulobacter crescentus</i> in vivo Z-ring organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4566-71	11.5	153
15	3D high-density localization microscopy using hybrid astigmatic/ biplane imaging and sparse image reconstruction. <i>Biomedical Optics Express</i> , 2014 , 5, 3935-48	3.5	29
14	Photoactivated Localization Microscopy for Cellular Imaging. <i>Neuromethods</i> , 2014 , 87-111	0.4	1
13	Multiscale spatial organization of RNA polymerase in <i>Escherichia coli</i> . <i>Biophysical Journal</i> , 2013 , 105, 172-81	2.9	135

12	Identifying molecular dynamics in single-molecule FRET experiments with burst variance analysis. <i>Biophysical Journal</i> , 2011 , 100, 1568-77	2.9	72
11	DAOSTORM: an algorithm for high- density super-resolution microscopy. <i>Nature Methods</i> , 2011 , 8, 279-80	1.6	325
10	Monitoring multiple distances within a single molecule using switchable FRET. <i>Nature Methods</i> , 2010 , 7, 831-6	21.6	85
9	Defining the limits of single-molecule FRET resolution in TIRF microscopy. <i>Biophysical Journal</i> , 2010 , 99, 3102-11	2.9	129
8	Single-molecule DNA biosensors for protein and ligand detection. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1316-20	16.4	26
7	DeepBacs: Bacterial image analysis using open-source deep learning approaches		1
6	Constriction rate modulation can drive cell size control and homeostasis in <i>C. crescentus</i>		2
5	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division		4
4	ZeroCostDL4Mic: an open platform to use Deep-Learning in Microscopy		24
3	FtsZ treadmilling is essential for Z-ring condensation and septal constriction initiation in <i>Bacillus subtilis</i> cell division		5
2	Super-resolution fight club: A broad assessment of 2D & 3D single-molecule localization microscopy software		4
1	Alternating-Laser Excitation and Pulsed-Interleaved Excitation of Single Molecules	131-162	