

Seamus J Holden

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,830
citations

430754

18
h-index

526166

27
g-index

38
all docs

38
docs citations

38
times ranked

3263
citing authors

#	ARTICLE	IF	CITATIONS
1	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. <i>Science</i> , 2017, 355, 739-743.	6.0	503
2	DAOSTORM: an algorithm for high- density super-resolution microscopy. <i>Nature Methods</i> , 2011, 8, 279-280.	9.0	411
3	Democratising deep learning for microscopy with ZeroCostDL4Mic. <i>Nature Communications</i> , 2021, 12, 2276.	5.8	295
4	Super-resolution fight club: assessment of 2D and 3D single-molecule localization microscopy software. <i>Nature Methods</i> , 2019, 16, 387-395.	9.0	251
5	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, 4566-4571.	3.3	188
6	Defining the Limits of Single-Molecule FRET Resolution in TIRF Microscopy. <i>Biophysical Journal</i> , 2010, 99, 3102-3111.	0.2	171
7	Multiscale Spatial Organization of RNA Polymerase in <i>Escherichia coli</i> . <i>Biophysical Journal</i> , 2013, 105, 172-181.	0.2	166
8	FALCON: fast and unbiased reconstruction of high-density super-resolution microscopy data. <i>Scientific Reports</i> , 2014, 4, 4577.	1.6	125
9	Movement dynamics of divisome proteins and PBP2x:FtsW in cells of <i>Streptococcus pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3211-3220.	3.3	107
10	Identifying Molecular Dynamics in Single-Molecule FRET Experiments with Burst Variance Analysis. <i>Biophysical Journal</i> , 2011, 100, 1568-1577.	0.2	105
11	Monitoring multiple distances within a single molecule using switchable FRET. <i>Nature Methods</i> , 2010, 7, 831-836.	9.0	99
12	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.	5.8	53
13	PALMsiever: a tool to turn raw data into results for single-molecule localization microscopy. <i>Bioinformatics</i> , 2015, 31, 797-798.	1.8	37
14	3D high-density localization microscopy using hybrid astigmatic/ biplane imaging and sparse image reconstruction. <i>Biomedical Optics Express</i> , 2014, 5, 3935.	1.5	35
15	Single-Molecule DNA Biosensors for Protein and Ligand Detection. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1316-1320.	7.2	31
16	Probing the mechanistic principles of bacterial cell division with super-resolution microscopy. <i>Current Opinion in Microbiology</i> , 2018, 43, 84-91.	2.3	30
17	DeepBacs for multi-task bacterial image analysis using open-source deep learning approaches. <i>Communications Biology</i> , 2022, 5, .	2.0	30
18	Correction of a Depth-Dependent Lateral Distortion in 3D Super-Resolution Imaging. <i>PLoS ONE</i> , 2015, 10, e0142949.	1.1	27

#	ARTICLE	IF	CITATIONS
19	Modularity and determinants of a (bi-)polarization control system from free-living and obligate intracellular bacteria. <i>ELife</i> , 2016, 5, .	2.8	26
20	Constriction Rate Modulation Can Drive Cell Size Control and Homeostasis in <i>C.Âcrescentus</i> . <i>IScience</i> , 2018, 4, 180-189.	1.9	25
21	Geometric principles underlying the proliferation of a model cell system. <i>Nature Communications</i> , 2020, 11, 4149.	5.8	21
22	Functional dichotomy and distinct nanoscale assemblies of a cell cycle-controlled bipolar zinc-finger regulator. <i>ELife</i> , 2016, 5, .	2.8	16
23	Super-resolution fight club. <i>Nature Photonics</i> , 2016, 10, 152-153.	15.6	11
24	High-resolution imaging of bacterial spatial organization with vertical cell imaging by nanostructured immobilization (VerCINI). <i>Nature Protocols</i> , 2022, 17, 847-869.	5.5	8
25	Single-Molecule DNA Biosensors for Quantitative Transcription Factor Detection. <i>Biophysical Journal</i> , 2010, 98, 611a.	0.2	1
26	Photoactivated Localization Microscopy for Cellular Imaging. <i>Neuromethods</i> , 2014, , 87-111.	0.2	1