

R Dyche Mullins

List of Publications by Year in descending order

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47
papers

7,970
citations

172457

29
h-index

254184

43
g-index

78
all docs

78
docs citations

78
times ranked

10889
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice light-sheet microscopy: Imaging molecules to embryos at high spatiotemporal resolution. <i>Science</i> , 2014, 346, 1257998.	12.6	1,567
2	Molecular Mechanisms Controlling Actin Filament Dynamics in Nonmuscle Cells. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2000, 29, 545-576.	18.3	1,319
3	The Global Phosphorylation Landscape of SARS-CoV-2 Infection. <i>Cell</i> , 2020, 182, 685-712.e19.	28.9	825
4	Cellular Control of Actin Nucleation. <i>Annual Review of Cell and Developmental Biology</i> , 2002, 18, 247-288.	9.4	434
5	SuperPlots: Communicating reproducibility and variability in cell biology. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	418
6	Drosophila Spire is an actin nucleation factor. <i>Nature</i> , 2005, 433, 382-388.	27.8	303
7	VASP is a processive actin polymerase that requires monomeric actin for barbed end association. <i>Journal of Cell Biology</i> , 2010, 191, 571-584.	5.2	241
8	Capping Protein Increases the Rate of Actin-Based Motility by Promoting Filament Nucleation by the Arp2/3 Complex. <i>Cell</i> , 2008, 133, 841-851.	28.9	228
9	Force Feedback Controls Motor Activity and Mechanical Properties of Self-Assembling Branched Actin Networks. <i>Cell</i> , 2016, 164, 115-127.	28.9	223
10	p53-cofactor JMY is a multifunctional actin nucleation factor. <i>Nature Cell Biology</i> , 2009, 11, 451-459.	10.3	220
11	Spatial and Temporal Relationships between Actin-Filament Nucleation, Capping, and Disassembly. <i>Current Biology</i> , 2007, 17, 395-406.	3.9	197
12	DNA damage induces nuclear actin filament assembly by Formin-2 and Spire-1/2 that promotes efficient DNA repair. <i>ELife</i> , 2015, 4, e07735.	6.0	168
13	Regulatory interactions between two actin nucleators, Spire and Cappuccino. <i>Journal of Cell Biology</i> , 2007, 179, 117-128.	5.2	162
14	Comparative analysis of tools for live cell imaging of actin network architecture. <i>Bioarchitecture</i> , 2014, 4, 189-202.	1.5	138
15	Differential Remodeling of Actin Cytoskeleton Architecture by Profilin Isoforms Leads to Distinct Effects on Cell Migration and Invasion. <i>Cancer Cell</i> , 2012, 22, 615-630.	16.8	131
16	Actomyosin dynamics drive local membrane component organization in an in vitro active composite layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1645-54.	7.1	131
17	Epi-illumination SPIM for volumetric imaging with high spatial-temporal resolution. <i>Nature Methods</i> , 2019, 16, 501-504.	19.0	125
18	Activation of the Arp2/3 Complex by the Listeria ActA Protein. <i>Journal of Biological Chemistry</i> , 2001, 276, 3468-3475.	3.4	119

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19	Actin-based protrusions of migrating neutrophils are intrinsically lamellar and facilitate direction changes. <i>ELife</i> , 2017, 6, .	6.0	107
20	WASP and SCAR are evolutionarily conserved in actin-filled pseudopod-based motility. <i>Journal of Cell Biology</i> , 2017, 216, 1673-1688.	5.2	91
21	WH2 and proline-rich domains of WASP-family proteins collaborate to accelerate actin filament elongation. <i>EMBO Journal</i> , 2018, 37, 102-121.	7.8	77
22	Activation of Arp2/3 Complex: Addition of the First Subunit of the New Filament by a WASP Protein Triggers Rapid ATP Hydrolysis on Arp2. <i>PLoS Biology</i> , 2004, 2, e91.	5.6	77
23	Actin Binding to the Central Domain of WASP/Scar Proteins Plays a Critical Role in the Activation of the Arp2/3 Complex. <i>Journal of Biological Chemistry</i> , 2006, 281, 10589-10597.	3.4	71
24	Lamellipodin promotes actin assembly by clustering Ena/VASP proteins and tethering them to actin filaments. <i>ELife</i> , 2015, 4, .	6.0	67
25	Cytoskeletal Mechanisms for Breaking Cellular Symmetry. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a003392-a003392.	5.5	63
26	In Silico Reconstitution of Actin-Based Symmetry Breaking and Motility. <i>PLoS Biology</i> , 2009, 7, e1000201.	5.6	61
27	Arp2/3 Complex and Cofilin Modulate Binding of Tropomyosin to Branched Actin Networks. <i>Current Biology</i> , 2015, 25, 1573-1582.	3.9	51
28	In vitro studies of actin filament and network dynamics. <i>Current Opinion in Cell Biology</i> , 2013, 25, 6-13.	5.4	45
29	From solution to surface to filament: actin flux into branched networks. <i>Biophysical Reviews</i> , 2018, 10, 1537-1551.	3.2	42
30	LC3 and STRAP regulate actin filament assembly by JMY during autophagosome formation. <i>Journal of Cell Biology</i> , 2019, 218, 251-266.	5.2	42
31	Cytoplasmic Actin: Purification and Single Molecule Assembly Assays. <i>Methods in Molecular Biology</i> , 2013, 1046, 145-170.	0.9	35
32	Initiation and disassembly of filopodia tip complexes containing VASP and lamellipodin. <i>Molecular Biology of the Cell</i> , 2020, 31, 2021-2034.	2.1	34
33	The surfaceome of multiple myeloma cells suggests potential immunotherapeutic strategies and protein markers of drug resistance. <i>Nature Communications</i> , 2022, 13, .	12.8	26
34	A novel tropomyosin isoform functions at the mitotic spindle and Golgi in <i>Drosophila</i> . <i>Molecular Biology of the Cell</i> , 2015, 26, 2491-2504.	2.1	22
35	The molecular mechanism of load adaptation by branched actin networks. <i>ELife</i> , 0, 11, .	6.0	16
36	High-Temperature Live-Cell Imaging of Cytokinesis, Cell Motility, and Cell-Cell Interactions in the Thermoacidophilic Crenarchaeon <i>Sulfolobus acidocaldarius</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 707124.	3.5	15

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37	Concise Language Promotes Clear Thinking about Cell Shape and Locomotion. <i>BioEssays</i> , 2018, 40, e1700225.	2.5	13
38	Our evolving view of cell motility. <i>Cell Cycle</i> , 2017, 16, 1735-1736.	2.6	12
39	Bacterial Tubulins A and B Exhibit Polarized Growth, Mixed-Polarity Bundling, and Destabilization by GTP Hydrolysis. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	10
40	Micropattern-Guided Assembly of Overlapping Pairs of Dynamic Microtubules. <i>Methods in Enzymology</i> , 2014, 540, 339-360.	1.0	8
41	Cryo-EM structure of the bacterial actin Alfa reveals unique assembly and ATP-binding interactions and the absence of a conserved subdomain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3356-3361.	7.1	7
42	Protomer alignment modulates specificity of RNA substrate recognition by Ire1. <i>ELife</i> , 2021, 10, .	6.0	7
43	Bacterial Actin-Like Proteins. <i>Methods in Enzymology</i> , 2014, 540, 19-34.	1.0	5
44	The instability of stabilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10743-10744.	7.1	3
45	For actin works*everywhere. <i>Journal of Cell Science</i> , 2002, 115, 677-678.	2.0	0
46	Reconstitution of plasmid DNA segregation from purified components. <i>FASEB Journal</i> , 2007, 21, A208.	0.5	0
47	Bacterial Chromosome Segregation. <i>Annual Review of Cell and Developmental Biology</i> , 2009, , .	9.4	0