

Justin E Molloy

List of Publications by Year in descending order

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79
papers

5,441
citations

117453

34
h-index

82410

72
g-index

86
all docs

86
docs citations

86
times ranked

4993
citing authors

#	ARTICLE	IF	CITATIONS
1	Movement and force produced by a single myosin head. <i>Nature</i> , 1995, 378, 209-212.	13.7	618
2	Formation and dissociation of M ₁ muscarinic receptor dimers seen by total internal reflection fluorescence imaging of single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2693-2698.	3.3	370
3	Lights, action: Optical tweezers. <i>Contemporary Physics</i> , 2002, 43, 241-258.	0.8	360
4	The gated gait of the processive molecular motor, myosin V. <i>Nature Cell Biology</i> , 2002, 4, 59-65.	4.6	360
5	The motor protein myosin-I produces its working stroke in two steps. <i>Nature</i> , 1999, 398, 530-533.	13.7	328
6	Load-dependent kinetics of force production by smooth muscle myosin measured with optical tweezers. <i>Nature Cell Biology</i> , 2003, 5, 980-986.	4.6	307
7	B Cells Use Mechanical Energy to Discriminate Antigen Affinities. <i>Science</i> , 2013, 340, 1587-1590.	6.0	264
8	The Stiffness of Rabbit Skeletal Actomyosin Cross-Bridges Determined with an Optical Tweezers Transducer. <i>Biophysical Journal</i> , 1998, 75, 1424-1438.	0.2	227
9	Automatic Detection of Single Fluorophores in Live Cells. <i>Biophysical Journal</i> , 2007, 92, 2199-2211.	0.2	158
10	Physiological properties of the dorsal longitudinal flight muscle and the tergal depressor of the trochanter muscle of <i>Drosophila melanogaster</i> . <i>Journal of Muscle Research and Cell Motility</i> , 1990, 11, 203-215.	0.9	144
11	Neck Length and Processivity of Myosin V. <i>Journal of Biological Chemistry</i> , 2003, 278, 29201-29207.	1.6	139
12	Visualizing single molecules inside living cells using total internal reflection fluorescence microscopy. <i>Methods</i> , 2003, 29, 142-152.	1.9	112
13	Myosin Motors Drive Long Range Alignment of Actin Filaments. <i>Journal of Biological Chemistry</i> , 2010, 285, 4964-4974.	1.6	109
14	Dual acylation of the 45kDa gliding-associated protein (GAP45) in <i>Plasmodium falciparum</i> merozoites. <i>Molecular and Biochemical Parasitology</i> , 2006, 149, 113-116.	0.5	97
15	Myosin-5, kinesin-1 and myosin-17 cooperate in secretion of fungal chitin synthase. <i>EMBO Journal</i> , 2012, 31, 214-227.	3.5	97
16	Promoter Binding, Initiation, and Elongation By Bacteriophage T7 RNA Polymerase. <i>Journal of Biological Chemistry</i> , 2004, 279, 3239-3244.	1.6	89
17	Contractility of single human dermal myofibroblasts and fibroblasts. <i>Cytoskeleton</i> , 2002, 52, 82-90.	4.4	82
18	Myo1c is designed for the adaptation response in the inner ear. <i>EMBO Journal</i> , 2004, 23, 1433-1440.	3.5	82

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19	The MTIPâ€“Myosin A Complex in Blood Stage Malaria Parasites. <i>Journal of Molecular Biology</i> , 2006, 355, 933-941.	2.0	81
20	Alternative Exon-encoded Regions of <i>Drosophila</i> Myosin Heavy Chain Modulate ATPase Rates and Actin Sliding Velocity. <i>Journal of Biological Chemistry</i> , 2001, 276, 15117-15124.	1.6	74
21	The Spatial and Temporal Dynamics of Pleckstrin Homology Domain Binding at the Plasma Membrane Measured by Imaging Single Molecules in Live Mouse Myoblasts. <i>Journal of Biological Chemistry</i> , 2004, 279, 15274-15280.	1.6	72
22	The SAH domain extends the functional length of the myosin lever. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22193-22198.	3.3	70
23	Visualizing helicases unwinding DNA at the single molecule level. <i>Nucleic Acids Research</i> , 2010, 38, 4448-4457.	6.5	58
24	Actin Residue Glu93 Is Identified as an Amino Acid Affecting Myosin Binding. <i>Journal of Biological Chemistry</i> , 1999, 274, 28321-28328.	1.6	55
25	Myosin light chain-2 mutation affects flight, wing beat frequency, and indirect flight muscle contraction kinetics in <i>Drosophila</i> .. <i>Journal of Cell Biology</i> , 1992, 119, 1523-1539.	2.3	53
26	Muscle Contraction: Actin Filaments Enter the Fray. <i>Biophysical Journal</i> , 2005, 89, 1-2.	0.2	52
27	Analysis of single-molecule mechanical recordings: application to acto-myosin interactions. <i>Progress in Biophysics and Molecular Biology</i> , 2001, 77, 45-72.	1.4	51
28	Myosin-10 produces its power-stroke in two phases and moves processively along a single actin filament under low load. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1833-42.	3.3	45
29	Functional and ultrastructural effects of a missense mutation in the indirect flight muscle-specific actin gene of <i>Drosophila melanogaster</i> . <i>Journal of Molecular Biology</i> , 1991, 222, 963-982.	2.0	44
30	The Josephin Domain Determines the Morphological and Mechanical Properties of Ataxin-3 Fibrils. <i>Biophysical Journal</i> , 2011, 100, 2033-2042.	0.2	44
31	Abundance, distribution, mobility and oligomeric state of M2 muscarinic acetylcholine receptors in live cardiac muscle. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 57, 129-136.	0.9	44
32	Compositional and expression analyses of the glideosome during the <i>Plasmodium</i> life cycle reveal an additional myosin light chain required for maximum motility. <i>Journal of Biological Chemistry</i> , 2017, 292, 17857-17875.	1.6	41
33	Monomeric PcrA helicase processively unwinds plasmid lengths of DNA in the presence of the initiator protein RepD. <i>Nucleic Acids Research</i> , 2013, 41, 5010-5023.	6.5	40
34	Bromomaleimideâ€“Linked Bioconjugates Are Cleavable in Mammalian Cells. <i>ChemBioChem</i> , 2012, 13, 39-41.	1.3	39
35	BIOPHYSICS: Myosin Motors Walk the Walk. <i>Science</i> , 2003, 300, 2045-2046.	6.0	37
36	Mode of drug binding to DNA determined by optical tweezers force spectroscopy. <i>Journal of Modern Optics</i> , 2003, 50, 1627-1636.	0.6	34

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37	Chapter 12 Optical Chopsticks: Digital Synthesis of Multiple Optical Traps. <i>Methods in Cell Biology</i> , 1997, 55, 205-216.	0.5	33
38	A model of stereocilia adaptation based on single molecule mechanical studies of myosin I. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 1895-1905.	1.8	32
39	The mechanism of erythrocyte invasion by the malarial parasite, <i>Plasmodium falciparum</i> . <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 953-960.	2.3	32
40	Quantification of Single Human Dermal Fibroblast Contraction. <i>Tissue Engineering</i> , 1998, 4, 281-291.	4.9	31
41	Multiple CaMKII Binding Modes to the Actin Cytoskeleton Revealed by Single-Molecule Imaging. <i>Biophysical Journal</i> , 2016, 111, 395-408.	0.2	29
42	Interaction between MyRIP and the actin cytoskeleton regulates Weibel-Palade body trafficking and exocytosis. <i>Journal of Cell Science</i> , 2015, 129, 592-603.	1.2	28
43	Architectural Dynamics of CaMKII-Actin Networks. <i>Biophysical Journal</i> , 2019, 116, 104-119.	0.2	23
44	Single-molecule measurements reveal that PARP1 condenses DNA by loop stabilization. <i>Science Advances</i> , 2021, 7, .	4.7	23
45	Preface: Optical tweezers in a new light. <i>Journal of Modern Optics</i> , 2003, 50, 1501-1507.	0.6	23
46	Optical tweezers in a new light. <i>Journal of Modern Optics</i> , 2003, 50, 1501-1507.	0.6	21
47	Direct Observation of Individual KCNQ1 Potassium Channels Reveals Their Distinctive Diffusive Behavior. <i>Journal of Biological Chemistry</i> , 2010, 285, 3664-3675.	1.6	21
48	Combined single-molecule force and fluorescence measurements for biology. <i>Journal of Biology</i> , 2003, 2, 4.	2.7	19
49	Growth and Tumor Suppressor NORE1A Is a Regulatory Node between Ras Signaling and Microtubule Nucleation. <i>Journal of Biological Chemistry</i> , 2010, 285, 16258-16266.	1.6	19
50	Spatiotemporal Dynamics of Actomyosin Networks. <i>Biophysical Journal</i> , 2013, 105, 1456-1465.	0.2	16
51	A Combination of Diffusion and Active Translocation Localizes Myosin 10 to the Filopodial Tip. <i>Journal of Biological Chemistry</i> , 2016, 291, 22373-22385.	1.6	16
52	An unexpectedly large working stroke from chymotryptic fragments of myosin II. <i>FEBS Letters</i> , 2000, 480, 293-297.	1.3	15
53	Cell biochemistry studied by single-molecule imaging. <i>Biochemical Society Transactions</i> , 2006, 34, 983-988.	1.6	14
54	Approximating the isometric force-calcium relation of intact frog muscle using skinned fibers. <i>Biophysical Journal</i> , 1995, 69, 1484-1490.	0.2	13

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55	Kinesin steps back. <i>Nature</i> , 2005, 435, 285-287.	13.7	12
56	A Single-Molecule Approach to Visualize the Unwinding Activity of DNA Helicases. <i>Methods in Molecular Biology</i> , 2011, 778, 193-214.	0.4	12
57	High-resolution structures of malaria parasite actomyosin and actin filaments. <i>PLoS Pathogens</i> , 2022, 18, e1010408.	2.1	12
58	Smooth and skeletal muscle single-molecule mechanical experiments. <i>Biophysical Journal</i> , 1997, 72, 984-986.	0.2	11
59	Single molecule measurements and biological motors. <i>European Biophysics Journal</i> , 2005, 35, 89-89.	1.2	10
60	Efficient golden gate assembly of DNA constructs for single molecule force spectroscopy and imaging. <i>Nucleic Acids Research</i> , 2022, 50, e77-e77.	6.5	10
61	Coupling ATP hydrolysis to mechanical work. <i>Nature Cell Biology</i> , 1999, 1, E87-E89.	4.6	9
62	Active actin gels. <i>Communicative and Integrative Biology</i> , 2012, 5, 39-42.	0.6	8
63	Calcium regulates scallop muscle by changing myosin flexibility. <i>European Biophysics Journal</i> , 2006, 35, 302-312.	1.2	7
64	Evaluating the use of Apo-neocarzinostatin as a cell penetrating protein. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 277-281.	1.0	7
65	oriD structure controls RepD initiation during rolling-circle replication. <i>Scientific Reports</i> , 2018, 8, 1206.	1.6	7
66	Heterogeneity of cell membrane structure studied by single molecule tracking. <i>Faraday Discussions</i> , 2021, 232, 358-374.	1.6	7
67	The effect of ionic strength on the kinetics of rigor development in skinned fast-twitch skeletal muscle fibres. <i>Pflugers Archiv European Journal of Physiology</i> , 1998, 435, 753-761.	1.3	6
68	Muscle, myosin and single molecules. <i>Essays in Biochemistry</i> , 2000, 35, 43-59.	2.1	6
69	A method for imaging single molecules at the plasma membrane of live cells within tissue slices. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	6
70	Imaging Individual Myosin Molecules Within Living Cells. <i>Methods in Molecular Biology</i> , 2011, 778, 123-142.	0.4	5
71	Microfluidic flow-cell with passive flow control for microscopy applications. <i>PLoS ONE</i> , 2020, 15, e0244103.	1.1	5
72	TORC2-Gad8-dependent myosin phosphorylation modulates regulation by calcium. <i>ELife</i> , 2019, 8, .	2.8	4

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73	Characterization of Three Regulatory States of the Striated Muscle Thin Filament. Journal of Molecular Biology, 2002, 323, 475-489.	2.0	3
74	P-selectin mobility undergoes a sol-gel transition as it diffuses from exocytosis sites into the cell membrane. Nature Communications, 2022, 13, .	5.8	3
75	Using Total Internal Reflection Fluorescence Microscopy to Observe Ion Channel Trafficking and Assembly. Methods in Molecular Biology, 2013, 998, 201-208.	0.4	2
76	Single Molecule Studies of Myosins. , 2009, , 1-33.		1
77	Optical trapping studies of acto-myosin motor proteins. , 2007, , .		0
78	Two's company, three's a crowd. Nature Physics, 2015, 11, 803-804.	6.5	0
79	Analysis of single-molecule mechanical recordings. , 2001, , 45-72.		0