

Jennifer L. Ross

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,682
citations

172457

29
h-index

138484

58
g-index

63
all docs

63
docs citations

63
times ranked

5909
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Regulation of Dynein and Kinesin Motor Proteins by Tau. <i>Science</i> , 2008, 319, 1086-1089.	12.6	860
2	Motor Coordination via a Tug-of-War Mechanism Drives Bidirectional Vesicle Transport. <i>Current Biology</i> , 2010, 20, 697-702.	3.9	377
3	Cargo transport: molecular motors navigate a complex cytoskeleton. <i>Current Opinion in Cell Biology</i> , 2008, 20, 41-47.	5.4	302
4	Processive bidirectional motion of dynein-dynactin complexes in vitro. <i>Nature Cell Biology</i> , 2006, 8, 562-570.	10.3	274
5	Huntingtin facilitates dynein/dynactin-mediated vesicle transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10045-10050.	7.1	261
6	Mechanics of microtubules. <i>Journal of Biomechanics</i> , 2010, 43, 23-30.	2.1	207
7	Microtubule-severing enzymes at the cutting edge. <i>Journal of Cell Science</i> , 2012, 125, 2561-9.	2.0	188
8	Non-equilibrium assembly of microtubules: from molecules to autonomous chemical robots. <i>Chemical Society Reviews</i> , 2017, 46, 5570-5587.	38.1	172
9	A Switch in Retrograde Signaling from Survival to Stress in Rapid-Onset Neurodegeneration. <i>Journal of Neuroscience</i> , 2009, 29, 9903-9917.	3.6	168
10	Complementary dimerization of microtubule-associated tau protein: Implications for microtubule bundling and tau-mediated pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7445-7450.	7.1	138
11	Kinesin and Dynein-Dynactin at Intersecting Microtubules: Motor Density Affects Dynein Function. <i>Biophysical Journal</i> , 2008, 94, 3115-3125.	0.5	133
12	MAP4 and CLASP1 operate as a safety mechanism to maintain a stable spindle position in mitosis. <i>Nature Cell Biology</i> , 2011, 13, 1040-1050.	10.3	108
13	<i>Drosophila</i> katanin is a microtubule depolymerase that regulates cortical-microtubule plus-end interactions and cell migration. <i>Nature Cell Biology</i> , 2011, 13, 361-369.	10.3	103
14	<i>Drosophila</i> Katanin-60 Depolymerizes and Severs at Microtubule Defects. <i>Biophysical Journal</i> , 2011, 100, 2440-2449.	0.5	90
15	TPX2 regulates the localization and activity of Eg5 in the mammalian mitotic spindle. <i>Journal of Cell Biology</i> , 2011, 195, 87-98.	5.2	84
16	Motor transport of self-assembled cargos in crowded environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20814-20819.	7.1	82
17	Mechanical Properties of Doubly Stabilized Microtubule Filaments. <i>Biophysical Journal</i> , 2013, 104, 1517-1528.	0.5	78
18	Interplay of structure, elasticity, and dynamics in actin-based nematic materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E124-E133.	7.1	73

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19	Loop formation of microtubules during gliding at high density. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 374104.	1.8	55
20	Human Fidgetin is a microtubule severing the enzyme and minus-end depolymerase that regulates mitosis. <i>Cell Cycle</i> , 2012, 11, 2359-2366.	2.6	55
21	Tau induces cooperative Taxol binding to microtubules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12910-12915.	7.1	52
22	Katanin Severing and Binding Microtubules Are Inhibited by Tubulin Carboxy Tails. <i>Biophysical Journal</i> , 2015, 109, 2546-2561.	0.5	49
23	Manipulating Protein Adsorption using a Patchy Protein-Resistant Brush. <i>Langmuir</i> , 2010, 26, 12147-12154.	3.5	48
24	Dynamic reorganization of Eg5 in the mammalian spindle throughout mitosis requires dynein and TPX2. <i>Molecular Biology of the Cell</i> , 2012, 23, 1254-1266.	2.1	48
25	Direct Single Molecule Imaging of Enhanced Enzyme Diffusion. <i>Physical Review Letters</i> , 2019, 123, 128101.	7.8	47
26	The Dark Matter of Biology. <i>Biophysical Journal</i> , 2016, 111, 909-916.	0.5	46
27	Perturbations in Microtubule Mechanics from Tubulin Preparation. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 227-238.	2.1	39
28	Microtubule organization by kinesin motors and microtubule crosslinking protein MAP65. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 374103.	1.8	37
29	Type 3 Secretion Translocators Spontaneously Assemble a Hexadecameric Transmembrane Complex. <i>Journal of Biological Chemistry</i> , 2016, 291, 6304-6315.	3.4	33
30	TPX2 Inhibits Eg5 by Interactions with Both Motor and Microtubule. <i>Journal of Biological Chemistry</i> , 2015, 290, 17367-17379.	3.4	32
31	Control of molecular shuttles by designing electrical and mechanical properties of microtubules. <i>Science Robotics</i> , 2017, 2, .	17.6	31
32	Single Molecule Investigation of Kinesin-1 Motility Using Engineered Microtubule Defects. <i>Scientific Reports</i> , 2017, 7, 44290.	3.3	28
33	Studying Plus-End Tracking at Single Molecule Resolution Using TIRF Microscopy. <i>Methods in Cell Biology</i> , 2010, 95, 543-554.	1.1	27
34	Multiple Color Single Molecule TIRF Imaging and Tracking of MAPs and Motors. <i>Methods in Cell Biology</i> , 2010, 95, 521-542.	1.1	25
35	Mobility of Taxol in Microtubule Bundles. <i>Biophysical Journal</i> , 2003, 84, 3959-3967.	0.5	24
36	Invited review: Microtubule severing enzymes couple atpase activity with tubulin GTPase spring loading. <i>Biopolymers</i> , 2016, 105, 547-556.	2.4	24

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37	Contractility in an extensile system. <i>Soft Matter</i> , 2017, 13, 4268-4277.	2.7	24
38	Self-organization of spindle-like microtubule structures. <i>Soft Matter</i> , 2019, 15, 4797-4807.	2.7	23
39	Microtubule orientation and spacing within bundles is critical for long-range kinesin motility. <i>Cytoskeleton</i> , 2014, 71, 595-610.	2.0	22
40	Modeling the effects of lattice defects on microtubule breaking and healing. <i>Cytoskeleton</i> , 2017, 74, 3-17.	2.0	20
41	Dynamics of microtubules: highlights of recent computational and experimental investigations. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 433003.	1.8	18
42	The impacts of molecular motor traffic jams. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5911-5912.	7.1	17
43	Direct Observation of Liquid Crystal Droplet Configurational Transitions using Optical Tweezers. <i>Langmuir</i> , 2020, 36, 7074-7082.	3.5	17
44	Counterion crossbridges enable robust multiscale elasticity in actin networks. <i>Physical Review Research</i> , 2019, 1, .	3.6	17
45	Non-monotonic dependence of stiffness on actin crosslinking in cytoskeleton composites. <i>Soft Matter</i> , 2019, 15, 9056-9065.	2.7	15
46	Actin and microtubule crosslinkers tune mobility and control co-localization in a composite cytoskeletal network. <i>Soft Matter</i> , 2020, 16, 7191-7201.	2.7	15
47	Katanin catalyzes microtubule depolymerization independently of tubulin C-terminal tails. <i>Cytoskeleton</i> , 2019, 76, 254-268.	2.0	14
48	Triggered disassembly and reassembly of actin networks induces rigidity phase transitions. <i>Soft Matter</i> , 2019, 15, 1335-1344.	2.7	13
49	Nonequilibrium fluctuations and nonlinear response of an active bath. <i>Physical Review Research</i> , 2022, 4, .	3.6	12
50	Purification and Biophysical Analysis of Microtubule-Severing Enzymes In Vitro. <i>Methods in Cell Biology</i> , 2013, 115, 191-213.	1.1	11
51	Modern methods to interrogate microtubule dynamics. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 1324.	1.3	10
52	Crowder and surface effects on self-organization of microtubules. <i>Physical Review E</i> , 2021, 103, 062408.	2.1	10
53	Active cytoskeletal composites display emergent tunable contractility and restructuring. <i>Soft Matter</i> , 2021, 17, 10765-10776.	2.7	10
54	Microtubules, MAPs, and motor patterns. <i>Methods in Cell Biology</i> , 2015, 128, 23-38.	1.1	4

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55	Autonomous materials from biomimicry. MRS Bulletin, 2019, 44, 119-123.	3.5	4
56	Creation and testing of a new, local microtubuleâ€disruption tool based on the microtubuleâ€severing enzyme, katanin p60. Cytoskeleton, 2018, 75, 531-544.	2.0	2
57	Controlling Liquid Crystal Configuration and Phase Using Multiple Molecular Triggers. Molecules, 2022, 27, 878.	3.8	2
58	A model system to study transport of self-assembled cargos. Communicative and Integrative Biology, 2013, 6, e25387.	1.4	1
59	Cover Image, Volume 75, Issue 12. Cytoskeleton, 2018, 75, C4.	2.0	0
60	Sustained orderâ€disorder transitions in a model colloidal system driven by rhythmic crosslinking. Soft Matter, 2022, , .	2.7	0