Linda Wordeman

List of Publications by Year
in descending order

97 papers	8,228 citations	81743 39 h-index	49773 87 g-index
102 all docs	102 docs citations	102 times ranked	5994 citing authors

#	Article	IF	Citations
1	[39] Preparation of modified tubulins. Methods in Enzymology, 1991, 196, 478-485.	0.4	666
2	A standardized kinesin nomenclature. Journal of Cell Biology, 2004, 167, 19-22.	2.3	662
3	Localization of cytoplasmic dynein to mitotic spindles and kinetochores. Nature, 1990, 345, 266-268.	13.7	509
4	Aurora B Regulates MCAK at the Mitotic Centromere. Developmental Cell, 2004, 6, 253-268.	3.1	472
5	Identification and partial characterization of mitotic centromere-associated kinesin, a kinesin-related protein that associates with centromeres during mitosis.. Journal of Cell Biology, 1995, 128, 95-104.	2.3	377
6	The Kinesin-Related Protein MCAK Is a Microtubule Depolymerase that Forms an ATP-Hydrolyzing Complex at Microtubule Ends. Molecular Cell, 2003, 11, 445-457.	4.5	332
7	The Kinesin-8 Motor Kif18A Suppresses Kinetochore Movements to Control Mitotic Chromosome Alignment. Developmental Cell, 2008, 14, 252-262.	3.1	300
8	Motor-dependent microtubule disassembly driven by tubulin tyrosination. Journal of Cell Biology, 2009, 185, 1159-1166.	2.3	284
9	Mitotic Centromereâ€“associated Kinesin Is Important for Anaphase Chromosome Segregation. Journal of Cell Biology, 1998, 142, 787-801.	2.3	272
10	Tubulin tyrosination is a major factor affecting the recruitment of CAP-Gly proteins at microtubule plus ends. Journal of Cell Biology, 2006, 174, 839-849.	2.3	271
11	The Ndc80 Kinetochore Complex Forms Load-Bearing Attachments to Dynamic Microtubule Tips via Biased Diffusion. Cell, 2009, 136, 865-875.	13.5	262
12	The Kinesin-13 Proteins Kif2a, Kif2b, and Kif2c/MCAK Have Distinct Roles during Mitosis in Human Cells. Molecular Biology of the Cell, 2007, 18, 2970-2979.	0.9	198
13	Cooperation of the Dam1 and Ndc80 kinetochore complexes enhances microtubule coupling and is regulated by aurora B. Journal of Cell Biology, 2010, 189, 713-723.	2.3	193
14	Increased microtubule assembly rates influence chromosomal instability in colorectal cancer cells. Nature Cell Biology, 2014, 16, 779-791.	4.6	174
15	Kif18A and Chromokinesins Confine Centromere Movements via Microtubule Growth Suppression and Spatial Control of Kinetochore Tension. Developmental Cell, 2012, 22, 1017-1029.	3.1	146
16	How kinesin motor proteins drive mitotic spindle function: Lessons from molecular assays. Seminars in Cell and Developmental Biology, 2010, 21, 260-268.	2.3	144
17	Molecular Dissection of the Microtubule Depolymerizing Activity of Mitotic Centromere-associated Kinesin. Journal of Biological Chemistry, 2001, 276, 34753-34758.	1.6	136
18	Phosphoregulation and depolymerization-driven movement of the Dam1 complex do not require ring formation. Nature Cell Biology, 2008, 10, 407-414.	4.6	136

#	Article	IF	Citations
19	In Vitro Reconstitution of the Functional Interplay between MCAK and EB3 at Microtubule Plus Ends. Current Biology, 2010, 20, 1717-1722.	1.8	130
20	MCAK associates with the tips of polymerizing microtubules. Journal of Cell Biology, 2005, 169, 391-397.	2.3	127
21	MCAK facilitates chromosome movement by promoting kinetochore microtubule turnover. Journal of Cell Biology, 2007, 179, 869-879.	2.3	121
22	Kinesin-2 is a Motor for Late Endosomes and Lysosomes. Traffic, 2005, 6, 1114-1124.	1.3	119
23	De novo design of self-assembling helical protein filaments. Science, 2018, 362, 705-709.	6.0	112
24	Microtubule-depolymerizing kinesins. Current Opinion in Cell Biology, 2005, 17, 82-88.	2.6	109
25	A Tethering Mechanism Controls the Processivity and Kinetochore-Microtubule Plus-End Enrichment of the Kinesin-8 Kif18A. Molecular Cell, 2011, 43, 764-775.	4.5	108
26	K-loop insertion restores microtubule depolymerizing activity of a â€œneckless†MCAK mutant. Journal of Cell Biology, 2002, 159, 557-562.	2.3	94
27	The mechanism, function and regulation of depolymerizing kinesins during mitosis. Trends in Cell Biology, 2004, 14, 537-546.	3.6	93
28	Mass Spec Studio for Integrative Structural Biology. Structure, 2014, 22, 1538-1548.	1.6	86
29	Long astral microtubules uncouple mitotic spindles from the cytokinetic furrow. Journal of Cell Biology, 2010, 190, 35-43.	2.3	78
30	Catalysis of the microtubule on-rate is the major parameter regulating the depolymerase activity of MCAK. Nature Structural and Molecular Biology, 2010, 17, 77-82.	3.6	77
31	Mitosis, microtubule dynamics and the evolution of kinesins. Experimental Cell Research, 2015, 334, 61-69.	1.2	74
32	The Kinetochore of Higher Eucaryotes: A Molecular View. International Review of Cytology, 1999, 194, 67-131.	6.2	72
33	The diffusive interaction of microtubule binding proteins. Current Opinion in Cell Biology, 2009, 21, 68-73.	2.6	69
34	TIP150 interacts with and targets MCAK at the microtubule plus ends. EMBO Reports, 2009, 10, 857-865.	2.0	67
35	Mitotic centromere-associated kinesin (MCAK): a potential cancer drug target. Oncotarget, 2011, 2, 935-947.	0.8	66
36	MCAK activity at microtubule tips regulates spindle microtubule length to promote robust kinetochore attachment. Journal of Cell Biology, 2012, 197, 231-237.	2.3	61

#	Article	IF	Citations
37	Microtubule Targeting Agents in Disease: Classic Drugs, Novel Roles. Cancers, 2021, 13, 5650.	1.7	54
38	Oxidative stress decreases microtubule growth and stability in ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2016, 93, 32-43.	0.9	47
39	A mitotic kinase scaffold depleted in testicular seminomas impacts spindle orientation in germ line stem cells. ELife, 2015, 4, e09384.	2.8	44
40	MCAK, a Kin I kinesin, increases the catastrophe frequency of steady-state HeLa cell microtubules in an ATP-dependent manner in vitro. FEBS Letters, 2004, 572, 80-84.	1.3	41
41	C-terminus of mitotic centromere-associated kinesin (MCAK) inhibits its lattice-stimulated ATPase activity. Biochemical Journal, 2004, 383, 227-235.	1.7	41
42	The Role of the Kinesin-13 Neck in Microtubule Depolymerization. Cell Cycle, 2006, 5, 1812-1815.	1.3	38
43	A new model for binding of kinesin 13 to curved microtubule protofilaments. Journal of Cell Biology, 2009, 185, 51-57.	2.3	38
44	The quantification and regulation of microtubule dynamics in the mitotic spindle. Current Opinion in Cell Biology, 2019, 60, 36-43.	2.6	38
45	Reactivation of spindle elongation in vitro is correlated with the phosphorylation of a 205 kd spindle-associated protein. Cell, 1987, 50, 535-543.	13.5	36
46	MUTATIONS IN THE ATP-BINDING DOMAIN AFFECT THE SUBCELLULAR DISTRIBUTION OF MITOTIC CENTROMERE-ASSOCIATED KINESIN (MCAK). Cell Biology International, 1999, 23, 275-286.	1.4	36
47	Unconventional Motoring: An Overview of the Kin C and Kin I Kinesins. Traffic, 2003, 4, 367-375.	1.3	36
48	Gravin Is a Transitory Effector of Polo-like Kinase 1 during Cell Division. Molecular Cell, 2012, 48, 547-559.	4.5	36
49	Molecular insight into the regulation and function of MCAK. Critical Reviews in Biochemistry and Molecular Biology, 2016, 51, 228-245.	2.3	36
50	AKAP220 Protein Organizes Signaling Elements That Impact Cell Migration. Journal of Biological Chemistry, 2011, 286, 39269-39281.	1.6	35
51	The tetrameric kinesin Kif25 suppresses pre-mitotic centrosome separation to establish proper spindleÂorientation. Nature Cell Biology, 2017, 19, 384-390.	4.6	35
52	A kinesin-13 mutant catalytically depolymerizes microtubules in ADP. Journal of Cell Biology, 2008, 183, 617-623.	2.3	28
53	A Perikinetochoric Ring Defined by MCAK and Aurora-B as a Novel Centromere Domain. PLoS Genetics, 2006, 2, e84.	1.5	26
54	Mip1 associates with both the Mps1 kinase and actin, and is required for cell cortex stability and anaphase spindle positioning. Cell Cycle, 2011, 10, 783-793.	1.3	25

#	Article	IF	Citations
55	Expression and Partial Characterization of Kinesin-related Proteins in Differentiating and Adult Skeletal Muscle. Molecular Biology of the Cell, 2000, 11, 4143-4158.	0.9	24
56	Rings, bracelets, sleeves, and chevrons: new structures of kinetochore proteins. Trends in Cell Biology, 2007, 17, 377-382.	3.6	23
57	Subcellular drug targeting illuminates local kinase action. ELife, 2019, 8, .	2.8	23
58	ST-11: A New Brain-Penetrant Microtubule-Destabilizing Agent with Therapeutic Potential for Glioblastoma Multiforme. Molecular Cancer Therapeutics, 2016, 15, 2018-2029.	1.9	22
59	Divergent microtubule assembly rates after short- versus long-term loss of end-modulating kinesins. Molecular Biology of the Cell, 2016, 27, 1300-1309.	0.9	21
60	Reconstitution and Functional Analysis of Kinetochore Subcomplexes. Methods in Cell Biology, 2010, 95, 641-656.	0.5	19
61	Modified carbazoles destabilize microtubules and kill glioblastoma multiform cells. European Journal of Medicinal Chemistry, 2018, 159, 74-89.	2.6	19
62	Î²-Tubulin carboxy-terminal tails exhibit isotype-specific effects on microtubule dynamics in human gene-edited cells. Life Science Alliance, 2018, 1, e201800059.	1.3	17
63	FAM123A Binds to Microtubules and Inhibits the Guanine Nucleotide Exchange Factor ARHGEF2 to Decrease Actomyosin Contractility. Science Signaling, 2012, 5, ra64.	1.6	16
64	GPR124 regulates microtubule assembly, mitotic progression, and glioblastoma cell proliferation. Glia, 2019, 67, 1558-1570.	2.5	15
65	Nucleotide Exchange in Dimeric MCAK Induces Longitudinal and Lateral Stress at Microtubule Ends to Support Depolymerization. Structure, 2014, 22, 1173-1183.	1.6	12
66	Distribution of a thiophosphorylated spindle midzone antigen during spindle reactivation in vitro. Journal of Cell Science, 1989, 93, 279-285.	1.2	12
67	Chromosome Congression: The Kinesin-8-Step Path to Alignment. Current Biology, 2007, 17, R326-R328.	1.8	11
68	Disruption of CENP antigen function perturbs dynein anchoring to the mitotic kinetochore. Chromosoma, 1996, 104, 551-560.	1.0	10
69	Direct Functional Interaction of the Kinesin-13 Family Membrane Kinesin-like Protein 2A (Kif2A) and Arf GAP with GTP-binding Protein-like, Ankyrin Repeats and PH Domains1 (AGAP1). Journal of Biological Chemistry, 2016, 291, 21350-21362.	1.6	10
70	Microtubule Length Control, a Team Sport?. Developmental Cell, 2009, 17, 437-438.	3.1	9
71	Arf GAPs and molecular motors. Small GTPases, 2019, 10, 196-209.	0.7	9
72	Functional characterization of MCAK/Kif2C cancer mutations using high-throughput microscopic analysis. Molecular Biology of the Cell, 2020, 31, 580-588.	0.9	9

#	Article	IF	Citations
73	In Vitro and In Vivo Analysis of Microtubule-Destabilizing Kinesins. Methods in Molecular Biology, 2007, 392, 37-49.	0.4	9
74	<scp>HXâ€MS</scp>2 for high performance conformational analysis of complex protein states. Protein Science, 2015, 24, 1313-1324.	3.1	8
75	Phosphorylation of NMDA receptors by cyclin B/CDK1 modulates calcium dynamics and mitosis. Communications Biology, 2020, 3, 665.	2.0	7
76	Rapid Measurement of Mitotic Spindle Orientation in Cultured Mammalian Cells. Methods in Molecular Biology, 2014, 1136, 31-40.	0.4	7
77	Cytokinesis by Furrowing in Diatoms. Annals of the New York Academy of Sciences, 1990, 582, 252-259.	1.8	5
78	Revisiting Actin's role in early centrosome separation. Cell Cycle, 2016, 15, 162-163.	1.3	5
79	Non-enzymatic Activity of the Î±-Tubulin Acetyltransferase Î±TAT Limits Synaptic Bouton Growth in Neurons. Current Biology, 2020, 30, 610-623.e5.	1.8	5
80	Kinase-anchoring proteins in ciliary signal transduction. Biochemical Journal, 2021, 478, 1617-1629.	1.7	5
81	Gravin-associated kinase signaling networks coordinate Î³-tubulin organization at mitotic spindle poles. Journal of Biological Chemistry, 2020, 295, 13784-13797.	1.6	4
82	The Kinesin Superfamily. , 2012, , 55-72.		4
83	GTP-tubulin loves microtubule plus ends but marries the minus ends. Journal of Cell Biology, 2019, 218, 2822-2823.	2.3	3
84	Roles for focal adhesion kinase (FAK) in blastomere abscission and vesicle trafficking during cleavage in the sea urchin embryo. Mechanisms of Development, 2013, 130, 290-303.	1.7	2
85	Oxidative Stress in Myocardial Infarction Disrupts Microtubule Trafficking, Reducing Transient Outward Current Density. Biophysical Journal, 2016, 110, 129a.	0.2	2
86	Mechanisms of chromosome segregation in metazoan cells. , 1995, 1, 319-327.		2
87	Chapter 14 Using Antisense Technology to Study Mitosis. Methods in Cell Biology, 1998, 61, 245-266.	0.5	1
88	Expression Cloning with Pan Kinesin Antibodies. , 2001, 164, 21-41.		1
89	Breathing down the neck of Unc104. Journal of Cell Biology, 2003, 163, 693-695.	2.3	1
90	Mitotic Spindle Dysfunction Promotes Genomic Instability In Marrow Failure. Blood, 2010, 116, 880-880.	0.6	1

#	Article	IF	Citations
91	Green fluorescent protein. Cell Biology International, 1999, 23, 523.	1.4	0
92	Reconstitution Of Microtubule-driven Movement and Force Production by the Ndc80 Kinetochore Complex. Biophysical Journal, 2009, 96, 572a.	0.2	0
93	ATPS-06BRAIN-PENETRANT ALKYLINDOLE COMPOUNDS PROMOTE APOPTOSIS IN GLIOMA CELLS THROUGH MICROTUBULE DESTABILIZATION. Neuro-Oncology, 2015, 17, v19.2-v19.	0.6	0
94	Cell Biology: Social Distancing of Microtubule Ends Increases Their Assembly Rates. Current Biology, 2020, 30, R888-R890.	1.8	0
95	A Perikinetochoric Ring Defined by MCAK as a New Centromere Domain in Meiosis. PLoS Genetics, 2005, preprint, e84.	1.5	0
96	In Vitro and In Vivo Analysis of Microtubule-Destabilizing Kinesins. , 0, , 37-50.		0
97	Disruption of CENP antigen function perturbs dynein anchoring to the mitotic kinetochore. Chromosoma, 1996, 104, 551-560.	1.0	0