Sharyn A Endow

List of Publications by Year
in descending order

82	4,299	117453	110170
papers	citations	34 h-index	64 g-index

126	126	126	2372
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A standardized kinesin nomenclature. Journal of Cell Biology, 2004, 167, 19-22.	2.3	662
2	The Drosophila claret segregation protein is a minus-end directed motor molecule. Nature, 1990, 347, 780-782.	13.7	370
3	Mediation of meiotic and early mitotic chromosome segregation in Drosophila by a protein related to kinesin. Nature, 1990, 345, 81-83.	13.7	256
4	A mutant of the motor protein kinesin that moves in both directions on microtubules. Nature, 2000, 406, 913-916.	13.7	173
5	Kinesin proteins: A phylum of motors for microtubule-based motility. BioEssays, 1996, 18, 207-219.	1.2	171
6	Spindle Dynamics during Meiosis in Drosophila Oocytes. Journal of Cell Biology, 1997, 137, 1321-1336.	2.3	140
7	Differential replication of ribosomal gene repeats in polytene nuclei of drosophila. Cell, 1979, 17, 597-605.	13.5	118
8	A new kinesin tree. Journal of Cell Science, 2004, 117, 3-7.	1.2	110
9	X-ray Crystal Structure of the Yeast Kar3 Motor Domain Complexed with MgÂ·ADP to 2.3 Ã... Resolution,. Biochemistry, 1998, 37, 1769-1776.	1.2	97
10	Microtubule motors in spindle and chromosome motility. FEBS Journal, 1999, 262, 12-18.	0.2	97
11	Two restriction-like enzymes from Xanthomonas malvacearum. Journal of Molecular Biology, 1977, 112, 521-529.	2.0	95
12	Force generation by kinesin and myosin cytoskeletal motor proteins. Journal of Cell Science, 2013, 126, 9-19.	1.2	91
13	A kinesin family tree. Journal of Cell Science, 2000, 113, 3681-3682.	1.2	90
14	Kinesin: switch I & II and the motor mechanism. Journal of Cell Science, 2002, 115, 15-23.	1.2	90
15	Determinants of molecular motor directionality. Nature Cell Biology, 1999, 1, E163-E167.	4.6	86
16	Large Conformational Changes in a Kinesin Motor Catalyzed by Interaction with Microtubules. Molecular Cell, 2006, 23, 913-923.	4.5	85
17	Assembly pathway of the anastral Drosophila oocyte meiosis I spindle. Journal of Cell Science, 2005, 118, 1745-1755.	1.2	83
18	Kinesin: switch I & II and the motor mechanism. Journal of Cell Science, 2002, 115, 15-23.	1.2	82

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19	Genetic Approaches to Molecular Motors. Annual Review of Cell Biology, 1992, 8, 29-66.	26.0	80
20	Satellite DNA sequences of Drosophila melanogaster. Journal of Molecular Biology, 1975, 96, 665-692.	2.0	75
21	Meiosis, mitosis and microtubule motors. BioEssays, 1993, 15, 399-407.	1.2	74
22	Rotation of the stalk/neck and one head in a new crystal structure of the kinesin motor protein, Ncd. EMBO Journal, 2003, 22, 5382-5389.	3.5	74
23	POLYTENIZATION OF THE RIBOSOMAL GENES ON THE X AND Y CHROMOSOMES OF DROSOPHILA MELANOGASTER. Genetics, 1982, 100, 375-385.	1.2	63
24	On ribosomal gene compensation in Drosophila. Cell, 1980, 22, 149-155.	13.5	60
25	Kinesins at a glance. Journal of Cell Science, 2010, 123, 3420-3424.	1.2	60
26	The emerging kinesin family of microtubule motor proteins. Trends in Biochemical Sciences, 1991, 16, 221-225.	3.7	58
27	Decoupling of nucleotide- and microtubule-binding sites in a kinesin mutant. Nature, 1998, 396, 587-590.	13.7	57
28	Directionality and processivity of molecular motors. Current Opinion in Cell Biology, 2002, 14, 50-57.	2.6	55
29	Rapid double 8-nm steps by a kinesin mutant. EMBO Journal, 2004, 23, 2993-2999.	3.5	47
30	Processive and Nonprocessive Models of Kinesin Movement. Annual Review of Physiology, 2003, 65, 161-175.	5.6	46
31	Analysis of Drosophila melanogaster satellite IV with restriction endonuclease MboII. Journal of Molecular Biology, 1977, 114, 441-449.	2.0	41
32	Kinesin motors as molecular machines. BioEssays, 2003, 25, 1212-1219.	1.2	39
33	Springs and hinges: dynamic coiled coils and discontinuities. Trends in Biochemical Sciences, 1994, 19, 51-54.	3.7	38
34	Kar3 interaction with Cik1 alters motor structure and function. EMBO Journal, 2005, 24, 3214-3223.	3.5	36
35	Fluorescence Recovery Kinetic Analysis of Î³-Tubulin Binding to the Mitotic Spindle. Biophysical Journal, 2008, 95, 3048-3058.	0.2	30
36	Meiotic chromosome distribution in Drosophila oocytes: Roles of two kinesin-related proteins. Chromosoma, 1992, 102, 1-8.	1.0	28

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37	A kinesin motor in a force-producing conformation. BMC Structural Biology, 2010, 10, 19.	2.3	28
38	Ncd motor binding and transport in the spindle. Journal of Cell Science, 2008, 121, 3834-3841.	1.2	26
39	Structural basis of small molecule ATPase inhibition of a human mitotic kinesin motor protein. Scientific Reports, 2017, 7, 15121.	1.6	26
40	Arl2- and Msps-dependent microtubule growth governs asymmetric division. Journal of Cell Biology, 2016, 212, 661-676.	2.3	24
41	RING CHROMOSOMES AND rDNA MAGNIFICATION IN DROSOPHILA. Genetics, 1984, 108, 969-983.	1.2	24
42	Binding Sites on Microtubules of Kinesin Motors of the Same or Opposite Polarityâ€. Biochemistry, 1996, 35, 11203-11209.	1.2	23
43	Anastral spindle assembly and Î³-tubulin in Drosophila oocytes. BMC Cell Biology, 2011, 12, 1.	3.0	21
44	Chromosome distribution, molecular motors and the claret protein. Trends in Genetics, 1993, 9, 52-55.	2.9	20
45	A microtubule-destabilizing kinesin motor regulates spindle length and anchoring in oocytes. Journal of Cell Biology, 2008, 180, 459-466.	2.3	20
46	CRL4Mahj E3 ubiquitin ligase promotes neural stem cell reactivation. PLoS Biology, 2019, 17, e3000276.	2.6	19
47	ONE-STEP AND STEPWISE MAGNIFICATION OF A BOBBED LETHAL CHROMOSOME IN DROSOPHILA MELANOGASTER. Genetics, 1986, 114, 511-523.	1.2	19
48	Mature Drosophila Meiosis I Spindles Comprise Microtubules of Mixed Polarity. Current Biology, 2009, 19, 163-168.	1.8	18
49	A new structural state of myosin. Trends in Biochemical Sciences, 2004, 29, 103-106.	3.7	15
50	Chapter 8 Expression of Microtubule Motor Proteins in Bacteria for Characterization in in Vitro Motility Assays. Methods in Cell Biology, 1993, 39, 115-127.	0.5	12
51	Rapid Purification of Microtubule Motor Domain Proteins Expressed in Bacteria. BioTechniques, 1997, 22, 82-85.	0.8	12
52	Anastral Spindle Assembly: A Mathematical Model. Biophysical Journal, 2009, 97, 2191-2201.	0.2	12
53	MOLECULAR CHARACTERIZATION OF RIBOSOMAL GENES ON THE Ybb- CHROMOSOME OF DROSOPHILA MELANOGASTER. Genetics, 1982, 102, 91-99.	1.2	12
54	MAGNIFICATION OF THE RIBOSOMAL GENES IN FEMALE DROSOPHILA MELANOGASTER. Genetics, 1986, 114, 859-874.	1.2	12

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55	Connecting protein family resourcesusing the proWeb network. Trends in Biochemical Sciences, 1996, 21, 444-445.	3.7	11
56	A Bidirectional Kinesin Motor in Live Drosophila Embryos. Traffic, 2005, 6, 1036-1046.	1.3	11
57	Two-state displacement by the kinesin-14 Ncd stalk. Biophysical Chemistry, 2011, 154, 56-65.	1.5	10
58	Neck-motor interactions trigger rotation of the kinesin stalk. Scientific Reports, 2012, 2, 236.	1.6	10
59	The kinesin-13 KLP10A motor regulates oocyte spindle length and affects EB1 binding without altering microtubule growth rates. Biology Open, 2014, 3, 561-570.	0.6	9
60	Altered Nucleotide-Microtubule Coupling and Increased Mechanical Output by a Kinesin Mutant. PLoS ONE, 2012, 7, e47148.	1.1	7
61	Reduction of wild-typeXchromosomes with theY^{bbâ˜}chromosome ofDrosophila melanogaster. Genetical Research, 1984, 43, 93-98.	0.3	6
62	An estimate to the first approximation of microtubule rupture force. European Biophysics Journal, 2019, 48, 569-577.	1.2	6
63	Mitochondria-enriched protrusions are associated with brain and intestinal stem cells in Drosophila. Communications Biology, 2019, 2, 427.	2.0	6
64	Reversing a â€˜backwardsâ€™ motor. BioEssays, 1998, 20, 108-112.	1.2	5
65	Constitutive magnification by the Ybbâ˜ chromosome of Drosophila melanogaster. Genetical Research, 1993, 62, 205-212.	0.3	4
66	Programmed to stay together. Nature, 1996, 384, 412-413.	13.7	3
67	Chapter 10: GFP Fusions to a Microtubule Motor Protein to Visualize Meiotic and Mitotic Spindle Dynamics in Drosophila. Methods in Cell Biology, 1998, 58, 153-163.	0.5	2
68	Joseph G. Gall. Journal of Cell Science, 2003, 116, 3849-3850.	1.2	2
69	Spindle function in yeast: A human motor to the rescue. Cell Cycle, 2009, 8, 3452-3454.	1.3	2
70	Mutant alleles of the meiotic locus,mei-9, differ in degree of effects on rod chromosome magnification and ring chromosome transmission inDrosophila. Genetical Research, 1989, 53, 155-161.	0.3	1
71	A remarkable career in scienceâ€”Joseph G. Gall. Chromosome Research, 2013, 21, 339-343.	1.0	1
72	Plasmids for Expression of Chimeric and Truncated Kinesin Proteins. , 2001, 164, 49-55.		0

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73	Molecular Motor Directionality. , 0, , 229-241.		0
74	1P268 Conformational Changes in a Kinesin Motor Kar3 Catalysed by Interaction with Microtubules(9.) Tj ETQq0 0 0 rgBT /Overlock 10 Butsuri, 2006, 46, S213.	0.0	0
75	Microtubule Binding and Rotation of the Kinesin-14 Stalk. Biophysical Journal, 2009, 96, 509a.	0.2	0
76	Kinesins at a glance. Journal of Cell Science, 2010, 123, 4000-4000.	1.2	0
77	Increased Mechanical Output by a Kinesin Mutant. Biophysical Journal, 2013, 104, 326a.	0.2	0
78	Kinesin-14 Ncd Microtubule Rotational Motility: A Mathematical Model. Biophysical Journal, 2013, 104, 150a.	0.2	0
79	Lever Arm Mobility and Force Generation in Ncd, a Minus-End Kinesin Motor. Biophysical Journal, 2013, 104, 322a.	0.2	0
80	Structural Analysis of a Human Mitotic Kinesin and Its Potential Binding Site for a Small Molecule Inhibitor. Biophysical Journal, 2018, 114, 194a-195a.	0.2	0
81	A First-Approximation Estimate of Forces Required for Microtubule Breakage. Biophysical Journal, 2019, 116, 256a.	0.2	0
82	Report on BASICS: Lesson Plan on Aerosols and Infection. The Biophysicist, 2021, 2, 16-19.	0.1	0