

Sharyn A Endow

List of Publications by Year in descending order

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82
papers

4,299
citations

117625

34
h-index

110387

64
g-index

126
all docs

126
docs citations

126
times ranked

2372
citing authors

#	ARTICLE	IF	CITATIONS
1	A standardized kinesin nomenclature. <i>Journal of Cell Biology</i> , 2004, 167, 19-22.	5.2	662
2	The <i>Drosophila</i> claret segregation protein is a minus-end directed motor molecule. <i>Nature</i> , 1990, 347, 780-782.	27.8	370
3	Mediation of meiotic and early mitotic chromosome segregation in <i>Drosophila</i> by a protein related to kinesin. <i>Nature</i> , 1990, 345, 81-83.	27.8	256
4	A mutant of the motor protein kinesin that moves in both directions on microtubules. <i>Nature</i> , 2000, 406, 913-916.	27.8	173
5	Kinesin proteins: A phylum of motors for microtubule-based motility. <i>BioEssays</i> , 1996, 18, 207-219.	2.5	171
6	Spindle Dynamics during Meiosis in <i>Drosophila</i> Oocytes. <i>Journal of Cell Biology</i> , 1997, 137, 1321-1336.	5.2	140
7	Differential replication of ribosomal gene repeats in polytene nuclei of <i>drosophila</i> . <i>Cell</i> , 1979, 17, 597-605.	28.9	118
8	A new kinesin tree. <i>Journal of Cell Science</i> , 2004, 117, 3-7.	2.0	110
9	X-ray Crystal Structure of the Yeast Kar3 Motor Domain Complexed with Mg-ADP to 2.3 Å... Resolution,. <i>Biochemistry</i> , 1998, 37, 1769-1776.	2.5	97
10	Microtubule motors in spindle and chromosome motility. <i>FEBS Journal</i> , 1999, 262, 12-18.	0.2	97
11	Two restriction-like enzymes from <i>Xanthomonas malvacearum</i> . <i>Journal of Molecular Biology</i> , 1977, 112, 521-529.	4.2	95
12	Force generation by kinesin and myosin cytoskeletal motor proteins. <i>Journal of Cell Science</i> , 2013, 126, 9-19.	2.0	91
13	A kinesin family tree. <i>Journal of Cell Science</i> , 2000, 113, 3681-3682.	2.0	90
14	Kinesin: switch I & II and the motor mechanism. <i>Journal of Cell Science</i> , 2002, 115, 15-23.	2.0	90
15	Determinants of molecular motor directionality. <i>Nature Cell Biology</i> , 1999, 1, E163-E167.	10.3	86
16	Large Conformational Changes in a Kinesin Motor Catalyzed by Interaction with Microtubules. <i>Molecular Cell</i> , 2006, 23, 913-923.	9.7	85
17	Assembly pathway of the anastral <i>Drosophila</i> oocyte meiosis I spindle. <i>Journal of Cell Science</i> , 2005, 118, 1745-1755.	2.0	83
18	Kinesin: switch I & II and the motor mechanism. <i>Journal of Cell Science</i> , 2002, 115, 15-23.	2.0	82

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19	Genetic Approaches to Molecular Motors. <i>Annual Review of Cell Biology</i> , 1992, 8, 29-66.	26.1	80
20	Satellite DNA sequences of <i>Drosophila melanogaster</i> . <i>Journal of Molecular Biology</i> , 1975, 96, 665-692.	4.2	75
21	Meiosis, mitosis and microtubule motors. <i>BioEssays</i> , 1993, 15, 399-407.	2.5	74
22	Rotation of the stalk/neck and one head in a new crystal structure of the kinesin motor protein, Ncd. <i>EMBO Journal</i> , 2003, 22, 5382-5389.	7.8	74
23	POLYTENIZATION OF THE RIBOSOMAL GENES ON THE X AND Y CHROMOSOMES OF <i>DROSOPHILA MELANOGASTER</i> . <i>Genetics</i> , 1982, 100, 375-385.	2.9	63
24	On ribosomal gene compensation in <i>Drosophila</i> . <i>Cell</i> , 1980, 22, 149-155.	28.9	60
25	Kinesins at a glance. <i>Journal of Cell Science</i> , 2010, 123, 3420-3424.	2.0	60
26	The emerging kinesin family of microtubule motor proteins. <i>Trends in Biochemical Sciences</i> , 1991, 16, 221-225.	7.5	58
27	Decoupling of nucleotide- and microtubule-binding sites in a kinesin mutant. <i>Nature</i> , 1998, 396, 587-590.	27.8	57
28	Directionality and processivity of molecular motors. <i>Current Opinion in Cell Biology</i> , 2002, 14, 50-57.	5.4	55
29	Rapid double 8-nm steps by a kinesin mutant. <i>EMBO Journal</i> , 2004, 23, 2993-2999.	7.8	47
30	Processive and Nonprocessive Models of Kinesin Movement. <i>Annual Review of Physiology</i> , 2003, 65, 161-175.	13.1	46
31	Analysis of <i>Drosophila melanogaster</i> satellite IV with restriction endonuclease MboII. <i>Journal of Molecular Biology</i> , 1977, 114, 441-449.	4.2	41
32	Kinesin motors as molecular machines. <i>BioEssays</i> , 2003, 25, 1212-1219.	2.5	39
33	Springs and hinges: dynamic coiled coils and discontinuities. <i>Trends in Biochemical Sciences</i> , 1994, 19, 51-54.	7.5	38
34	Kar3 interaction with Cik1 alters motor structure and function. <i>EMBO Journal</i> , 2005, 24, 3214-3223.	7.8	36
35	Fluorescence Recovery Kinetic Analysis of $\hat{1}^3$ -Tubulin Binding to the Mitotic Spindle. <i>Biophysical Journal</i> , 2008, 95, 3048-3058.	0.5	30
36	Meiotic chromosome distribution in <i>Drosophila</i> oocytes: Roles of two kinesin-related proteins. <i>Chromosoma</i> , 1992, 102, 1-8.	2.2	28

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37	A kinesin motor in a force-producing conformation. <i>BMC Structural Biology</i> , 2010, 10, 19.	2.3	28
38	Ncd motor binding and transport in the spindle. <i>Journal of Cell Science</i> , 2008, 121, 3834-3841.	2.0	26
39	Structural basis of small molecule ATPase inhibition of a human mitotic kinesin motor protein. <i>Scientific Reports</i> , 2017, 7, 15121.	3.3	26
40	Arl2- and Msps-dependent microtubule growth governs asymmetric division. <i>Journal of Cell Biology</i> , 2016, 212, 661-676.	5.2	24
41	RING CHROMOSOMES AND rDNA MAGNIFICATION IN DROSOPHILA. <i>Genetics</i> , 1984, 108, 969-983.	2.9	24
42	Binding Sites on Microtubules of Kinesin Motors of the Same or Opposite Polarity. <i>Biochemistry</i> , 1996, 35, 11203-11209.	2.5	23
43	Anastral spindle assembly and β -tubulin in <i>Drosophila</i> oocytes. <i>BMC Cell Biology</i> , 2011, 12, 1.	3.0	21
44	Chromosome distribution, molecular motors and the claret protein. <i>Trends in Genetics</i> , 1993, 9, 52-55.	6.7	20
45	A microtubule-destabilizing kinesin motor regulates spindle length and anchoring in oocytes. <i>Journal of Cell Biology</i> , 2008, 180, 459-466.	5.2	20
46	CRL4 ^{Mahj} E3 ubiquitin ligase promotes neural stem cell reactivation. <i>PLoS Biology</i> , 2019, 17, e3000276.	5.6	19
47	ONE-STEP AND STEPWISE MAGNIFICATION OF A BOBBED LETHAL CHROMOSOME IN DROSOPHILA MELANOGASTER. <i>Genetics</i> , 1986, 114, 511-523.	2.9	19
48	Mature <i>Drosophila</i> Meiosis I Spindles Comprise Microtubules of Mixed Polarity. <i>Current Biology</i> , 2009, 19, 163-168.	3.9	18
49	A new structural state of myosin. <i>Trends in Biochemical Sciences</i> , 2004, 29, 103-106.	7.5	15
50	Chapter 8 Expression of Microtubule Motor Proteins in Bacteria for Characterization in in Vitro Motility Assays. <i>Methods in Cell Biology</i> , 1993, 39, 115-127.	1.1	12
51	Rapid Purification of Microtubule Motor Domain Proteins Expressed in Bacteria. <i>BioTechniques</i> , 1997, 22, 82-85.	1.8	12
52	Anastral Spindle Assembly: A Mathematical Model. <i>Biophysical Journal</i> , 2009, 97, 2191-2201.	0.5	12
53	MOLECULAR CHARACTERIZATION OF RIBOSOMAL GENES ON THE Ybb- CHROMOSOME OF DROSOPHILA MELANOGASTER. <i>Genetics</i> , 1982, 102, 91-99.	2.9	12
54	MAGNIFICATION OF THE RIBOSOMAL GENES IN FEMALE DROSOPHILA MELANOGASTER. <i>Genetics</i> , 1986, 114, 859-874.	2.9	12

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55	Connecting protein family resources using the proWeb network. Trends in Biochemical Sciences, 1996, 21, 444-445.	7.5	11
56	A Bidirectional Kinesin Motor in Live Drosophila Embryos. Traffic, 2005, 6, 1036-1046.	2.7	11
57	Two-state displacement by the kinesin-14 Ncd stalk. Biophysical Chemistry, 2011, 154, 56-65.	2.8	10
58	Neck-motor interactions trigger rotation of the kinesin stalk. Scientific Reports, 2012, 2, 236.	3.3	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.	1.2	9
60	Altered Nucleotide-Microtubule Coupling and Increased Mechanical Output by a Kinesin Mutant. PLoS ONE, 2012, 7, e47148.	2.5	7
61	Reduction of wild-type <i>X</i> chromosomes with the <i>Y^{bb}</i> chromosome of <i>Drosophila melanogaster</i> . Genetical Research, 1984, 43, 93-98.	0.9	6
62	An estimate to the first approximation of microtubule rupture force. European Biophysics Journal, 2019, 48, 569-577.	2.2	6
63	Mitochondria-enriched protrusions are associated with brain and intestinal stem cells in Drosophila. Communications Biology, 2019, 2, 427.	4.4	6
64	Reversing a "backwards" motor. BioEssays, 1998, 20, 108-112.	2.5	5
65	Constitutive magnification by the <i>Ybb</i> chromosome of <i>Drosophila melanogaster</i> . Genetical Research, 1993, 62, 205-212.	0.9	4
66	Programmed to stay together. Nature, 1996, 384, 412-413.	27.8	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.	1.1	2
68	Joseph G. Gall. Journal of Cell Science, 2003, 116, 3849-3850.	2.0	2
69	Spindle function in yeast: A human motor to the rescue. Cell Cycle, 2009, 8, 3452-3454.	2.6	2
70	Mutant alleles of the meiotic locus, <i>mei-9</i> , differ in degree of effects on rod chromosome magnification and ring chromosome transmission in <i>Drosophila</i> . Genetical Research, 1989, 53, 155-161.	0.9	1
71	A remarkable career in science" Joseph G. Gall. Chromosome Research, 2013, 21, 339-343.	2.2	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.	0.1	0
75	Microtubule Binding and Rotation of the Kinesin-14 Stalk. Biophysical Journal, 2009, 96, 509a.	0.5	0
76	Kinesins at a glance. Journal of Cell Science, 2010, 123, 4000-4000.	2.0	0
77	Increased Mechanical Output by a Kinesin Mutant. Biophysical Journal, 2013, 104, 326a.	0.5	0
78	Kinesin-14 Ncd Microtubule Rotational Motility: A Mathematical Model. Biophysical Journal, 2013, 104, 150a.	0.5	0
79	Lever Arm Mobility and Force Generation in Ncd, a Minus-End Kinesin Motor. Biophysical Journal, 2013, 104, 322a.	0.5	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.	0.5	0
81	A First-Approximation Estimate of Forces Required for Microtubule Breakage. Biophysical Journal, 2019, 116, 256a.	0.5	0
82	Report on BASICS: Lesson Plan on Aerosols and Infection. The Biophysicist, 2021, 2, 16-19.	0.3	0