Jenny E Hinshaw

List of Publications by Year
in descending order

55 papers	7,152 citations	126907 33 h-index	197818 49 g-index
60 all docs	60 docs citations	60 times ranked	7082 citing authors

#	Article	IF	Citations
1	Chemical Inhibition of the Mitochondrial Division Dynamin Reveals Its Role in Bax/Bak-Dependent Mitochondrial Outer Membrane Permeabilization. Developmental Cell, 2008, 14, 193-204.	7.0	992
2	Dynamin self-assembles into rings suggesting a mechanism for coated vesicle budding. Nature, 1995, 374, 190-192.	27.8	756
3	Dynamin Undergoes a GTP-Dependent Conformational Change Causing Vesiculation. Cell, 1998, 93, 1021-1029.	28.9	617
4	Dnm1 forms spirals that are structurally tailored to fit mitochondria. Journal of Cell Biology, 2005, 170, 1021-1027.	5.2	533
5	Architecture and design of the nuclear pore complex. Cell, 1992, 69, 1133-1141.	28.9	451
6	Conformational changes in Dnm1 support a contractile mechanism for mitochondrial fission. Nature Structural and Molecular Biology, 2011, 18, 20-26.	8.2	399
7	Membrane fission by dynamin: what we know and what we need to know. EMBO Journal, 2016, 35, 2270-2284.	7.8	388
8	Dynamin Self-assembly Stimulates Its GTPase Activity. Journal of Biological Chemistry, 1996, 271, 22310-22314.	3.4	240
9	Three-dimensional reconstruction of dynamin in the constricted state. Nature Cell Biology, 2001, 3, 922-926.	10.3	220
10	OPA1 disease alleles causing dominant optic atrophy have defects in cardiolipin-stimulated GTP hydrolysis and membrane tubulation. Human Molecular Genetics, 2010, 19, 2113-2122.	2.9	190
11	A Pseudoatomic Model of the Dynamin Polymer Identifies a Hydrolysis-Dependent Powerstroke. Cell, 2011, 147, 209-222.	28.9	189
12	Dynamin family of mechanoenzymes. Current Opinion in Cell Biology, 2001, 13, 454-460.	5.4	170
13	The stalk region of dynamin drives the constriction of dynamin tubes. Nature Structural and Molecular Biology, 2004, 11, 574-575.	8.2	140
14	Rapid constriction of lipid bilayers by the mechanochemical enzyme dynamin. Journal of Structural Biology, 2004, 147, 259-267.	2.8	140
15	Mdv1 Interacts with Assembled Dnm1 to Promote Mitochondrial Division. Journal of Biological Chemistry, 2006, 281, 2177-2183.	3.4	129
16	An endophilinâ€“dynamin complex promotes budding of clathrin-coated vesicles during synaptic vesicle recycling. Journal of Cell Science, 2011, 124, 133-143.	2.0	106
17	A Corkscrew Model for Dynamin Constriction. Structure, 2007, 15, 1190-1202.	3.3	98
18	Time-resolved cryo-EM using Spotiton. Nature Methods, 2020, 17, 897-900.	19.0	96

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19	Dynamin Assembles into Spirals under Physiological Salt Conditions upon the Addition of GDP and Î³-Phosphate Analogues. Journal of Biological Chemistry, 1997, 272, 28030-28035.	3.4	95
20	Dynamins at a glance. Journal of Cell Science, 2009, 122, 3427-3431.	2.0	93
21	A hemi-fission intermediate links two mechanistically distinct stages of membrane fission. Nature, 2015, 524, 109-113.	27.8	91
22	A Dynamin Mutant Defines a Superconstricted Prefission State. Cell Reports, 2014, 8, 734-742.	6.4	83
23	Structural Insights into the Mechanism of Dynamin Superfamily Proteins. Trends in Cell Biology, 2019, 29, 257-273.	7.9	82
24	A BAR Domain in the N Terminus of the Arf GAP ASAP1 Affects Membrane Structure and Trafficking of Epidermal Growth Factor Receptor. Current Biology, 2006, 16, 130-139.	3.9	81
25	Cryo-EM of the dynamin polymer assembled on lipid membrane. Nature, 2018, 560, 258-262.	27.8	79
26	Dynamin regulates the dynamics and mechanical strength of the actin cytoskeleton as a multifilament actin-bundling protein. Nature Cell Biology, 2020, 22, 674-688.	10.3	70
27	Autoinhibition of Arf GTPase-activating Protein Activity by the BAR Domain in ASAP1. Journal of Biological Chemistry, 2009, 284, 1652-1663.	3.4	63
28	A possible effector role for the pleckstrin homology (PH) domain of dynamin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13359-13364.	7.1	55
29	Membrane-bending proteins. Critical Reviews in Biochemistry and Molecular Biology, 2009, 44, 278-291.	5.2	55
30	Nuclear pore complexes exceeding eightfold rotational symmetry. Journal of Structural Biology, 2003, 141, 259-268.	2.8	51
31	Cryo-EM structures reveal multiple stages of bacterial outer membrane protein folding. Cell, 2022, 185, 1143-1156.e13.	28.9	45
32	The structure and spontaneous curvature of clathrin lattices at the plasma membrane. Developmental Cell, 2021, 56, 1131-1146.e3.	7.0	44
33	Adult-onset autosomal dominant spastic paraplegia linked to a GTPase-effector domain mutation of dynamin 2. BMC Neurology, 2015, 15, 223.	1.8	39
34	Assay and Functional Analysis of Dynaminâ€Like Mx Proteins. Methods in Enzymology, 2005, 404, 632-643.	1.0	35
35	Chaperonin GroEL accelerates protofibril formation and decorates fibrils of the Het-s prion protein. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9104-9109.	7.1	34
36	Structure and function of yeast Atg20, a sorting nexin that facilitates autophagy induction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10112-E10121.	7.1	34

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37	Regulating dynamin dynamics during endocytosis. F1000prime Reports, 2014, 6, 85.	5.9	31
38	Dynamin spirals. Current Opinion in Structural Biology, 1999, 9, 260-267.	5.7	24
39	Chapter 13 Visualization of Dynamins. Methods in Cell Biology, 2008, 88, 237-256.	1.1	24
40	Binding Site Geometry and Subdomain Valency Control Effects of Neutralizing Lectins on HIV-1 Viral Particles. ACS Infectious Diseases, 2016, 2, 882-891.	3.8	20
41	ArfGAP1 promotes COPI vesicle formation by facilitating coatomer polymerization. Cellular Logistics, 2011, 1, 139-154.	0.9	19
42	Poxviruses Encode a Reticulon-Like Protein that Promotes Membrane Curvature. Cell Reports, 2016, 14, 2084-2091.	6.4	13
43	Architecture of the nuclear pore complex and its involvement in nucleocytoplasmic transport. Biochemical Pharmacology, 1994, 47, 15-20.	4.4	10
44	Reconstitution of human atlastin fusion activity reveals autoinhibition by the C terminus. Journal of Cell Biology, 2022, 221, .	5.2	10
45	Filling the GAP for dynamin. Nature Cell Biology, 2006, 8, 432-433.	10.3	5
46	Molecular mechanics underlying flat-to-round membrane budding in live secretory cells. Nature Communications, 2022, 13, .	12.8	5
47	Dynamin: Membrane Scission Meets Physics. Current Biology, 2012, 22, R1047-R1048.	3.9	2
48	Cool views of membrane remodeling. Current Opinion in Colloid and Interface Science, 2018, 34, 17-31.	7.4	2
49	Dynamins and BAR Proteins-Safeguards against Cancer. Critical Reviews in Oncogenesis, 2015, 20, 475-484.	0.4	2
50	Dynamin Mediates Membrane Vesiculation. Microscopy and Microanalysis, 1998, 4, 1022-1023.	0.4	0
51	Structural Studies of Dynamin Tubular Crystals by Cryo-Electron Microscopy. Microscopy and Microanalysis, 1999, 5, 1024-1025.	0.4	0
52	Self-Assembly of Dynamin. Microscopy and Microanalysis, 2001, 7, 1210-1211.	0.4	0
53	Conformational Changes of Dynamin-Lipid Tubes upon GTP Addition: A Time-Resolved Study Using Digital-Imaging Cryo-TEM. Microscopy and Microanalysis, 2002, 8, 850-851.	0.4	0
54	Rapid Constriction of Lipid Bilayers by the Mechanochemical Enzyme Dynamin. Microscopy and Microanalysis, 2004, 10, 428-429.	0.4	0

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55	Synthesis and Effect of Conformationally Locked Carbocyclic Guanine Nucleotides on Dynamin. Biomolecules, 2022, 12, 584.	4.0	0