Samara L Reck-Peterson

List of Publications by Year
in descending order

56 papers	6,263 citations	126907 33 h-index	161849 54 g-index
77 all docs	77 docs citations	77 times ranked	5008 citing authors

#	Article	IF	Citations
1	Single-Molecule Analysis of Dynein Processivity and Stepping Behavior. Cell, 2006, 126, 335-348.	28.9	571
2	The cytoplasmic dynein transport machinery and its many cargoes. Nature Reviews Molecular Cell Biology, 2018, 19, 382-398.	37.0	485
3	Tug-of-War in Motor Protein Ensembles Revealed with a Programmable DNA Origami Scaffold. Science, 2012, 338, 662-665.	12.6	383
4	Nuclear Actin and Actin-Related Proteins in Chromatin Remodeling. Annual Review of Biochemistry, 2002, 71, 755-781.	11.1	379
5	Cortical Dynein Controls Microtubule Dynamics to Generate Pulling Forces that Position Microtubule Asters. Cell, 2012, 148, 502-514.	28.9	362
6	Force-Induced Bidirectional Stepping of Cytoplasmic Dynein. Cell, 2007, 131, 952-965.	28.9	361
7	Class V myosins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2000, 1496, 36-51.	4.1	251
8	Lis1 Acts as a â€œClutchâ€•between the ATPase and Microtubule-Binding Domains of the Dynein Motor. Cell, 2012, 150, 975-986.	28.9	209
9	Mechanism and Regulation of Cytoplasmic Dynein. Annual Review of Cell and Developmental Biology, 2015, 31, 83-108.	9.4	206
10	Dynein achieves processive motion using both stochastic and coordinated stepping. Nature Structural and Molecular Biology, 2012, 19, 193-200.	8.2	198
11	Lis1 is an initiation factor for dynein-driven organelle transport. Journal of Cell Biology, 2012, 197, 971-982.	5.2	165
12	Structural Basis for Microtubule Binding and Release by Dynein. Science, 2012, 337, 1532-1536.	12.6	162
13	The Affinity of the Dynein Microtubule-binding Domain Is Modulated by the Conformation of Its Coiled-coil Stalk. Journal of Biological Chemistry, 2005, 280, 23960-23965.	3.4	159
14	Structure of LRRK2 in Parkinsonâ€™s disease and model for microtubule interaction. Nature, 2020, 588, 344-349.	27.8	147
15	Regulation of the processivity and intracellular localization of <i>Saccharomyces cerevisiae</i> dynein by dynactin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5669-5674.	7.1	131
16	The Yeast Class V Myosins, Myo2p and Myo4p, Are Nonprocessive Actin-Based Motors. Journal of Cell Biology, 2001, 153, 1121-1126.	5.2	123
17	Regulatory ATPase Sites of Cytoplasmic Dynein Affect Processivity and Force Generation. Journal of Biological Chemistry, 2008, 283, 25839-25845.	3.4	123
18	Mechanisms Underlying the Dual-Mode Regulation of Microtubule Dynamics by Kip3/Kinesin-8. Molecular Cell, 2011, 43, 751-763.	9.7	122

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19	The human cytoplasmic dynein interactome reveals novel activators of motility. ELife, 2017, 6, .	6.0	120
20	Role of Actin and Myo2p in Polarized Secretion and Growth of<i>Saccharomyces cerevisiae</i>. Molecular Biology of the Cell, 2000, 11, 1727-1737.	2.1	103
21	Human CFEOM1 Mutations Attenuate KIF21A Autoinhibition and Cause Oculomotor Axon Stalling. Neuron, 2014, 82, 334-349.	8.1	101
22	Peroxisomes move by hitchhiking on early endosomes using the novel linker protein PxdA. Journal of Cell Biology, 2016, 212, 289-296.	5.2	100
23	LIS1 promotes the formation of activated cytoplasmic dynein-1 complexes. Nature Cell Biology, 2020, 22, 518-525.	10.3	93
24	Reconstitution of dynein transport to the microtubule plus end by kinesin. ELife, 2014, 3, e02641.	6.0	92
25	Lis1 regulates dynein by sterically blocking its mechanochemical cycle. ELife, 2014, 3, .	6.0	89
26	Microtubule-based transport in filamentous fungi. Current Opinion in Microbiology, 2012, 15, 637-645.	5.1	87
27	Molecular dissection of the roles of nucleotide binding and hydrolysis in dynein's AAA domains in Saccharomyces cerevisiae. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1491-1495.	7.1	83
28	Hitchhiking: A Non-Canonical Mode of Microtubule-Based Transport. Trends in Cell Biology, 2017, 27, 141-150.	7.9	82
29	The Tail of a Yeast Class V Myosin, Myo2p, Functions as a Localization Domain. Molecular Biology of the Cell, 1999, 10, 1001-1017.	2.1	81
30	Lis1 Has Two Opposing Modes of Regulating Cytoplasmic Dynein. Cell, 2017, 170, 1197-1208.e12.	28.9	78
31	Self-repair protects microtubules from destruction by molecular motors. Nature Materials, 2021, 20, 883-891.	27.5	67
32	Hook3 is a scaffold for the opposite-polarity microtubule-based motors cytoplasmic dynein-1 and KIF1C. Journal of Cell Biology, 2019, 218, 2982-3001.	5.2	57
33	Characterization of the Mutagenic Spectrum of 4-Nitroquinoline 1-Oxide (4-NQO) in<i>Aspergillus nidulans</i>by Whole Genome Sequencing. G3: Genes, Genomes, Genetics, 2014, 4, 2483-2492.	1.8	38
34	Angular measurements of the dynein ring reveal a stepping mechanism dependent on a flexible stalk. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4564-E4573.	7.1	35
35	Aspergillus Myosin-V Supports Polarized Growth in the Absence of Microtubule-Based Transport. PLoS ONE, 2011, 6, e28575.	2.5	35
36	Cell Polarity Protein Spa2P Associates With Proteins Involved In Actin Function InSaccharomyces Cerevisiae. Molecular Biology of the Cell, 2005, 16, 4595-4608.	2.1	33

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37	Imaging Single Molecules Using Total Internal Reflection Fluorescence Microscopy (TIRFM). Cold Spring Harbor Protocols, 2010, 2010, pdb.top73.	0.3	31
38	Myo2p, a class V myosin in budding yeast, associates with a large ribonucleic acidâ€“protein complex that contains mRNAs and subunits of the RNA-processing body. Rna, 2008, 14, 491-502.	3.5	29
39	Structural basis for cytoplasmic dynein-1 regulation by Lis1. ELife, 2022, 11, .	6.0	29
40	A microscopy-based screen employing multiplex genome sequencing identifies cargo-specific requirements for dynein velocity. Molecular Biology of the Cell, 2014, 25, 669-678.	2.1	27
41	Cytoplasmic dynein-1 cargo diversity is mediated by the combinatorial assembly of FTSâ€“Hookâ€“FHIP complexes. ELife, 2021, 10, .	6.0	27
42	A minimal computational model for three-dimensional cell migration. Journal of the Royal Society Interface, 2019, 16, 20190619.	3.4	23
43	Engineered, harnessed, and hijacked: synthetic uses for cytoskeletal systems. Trends in Cell Biology, 2012, 22, 644-652.	7.9	21
44	Cytoplasmic Dynein Is Required for the Spatial Organization of Protein Aggregates in Filamentous Fungi. Cell Reports, 2015, 11, 201-209.	6.4	21
45	Hitching a Ride: Mechanics of Transport Initiation through Linker-Mediated Hitchhiking. Biophysical Journal, 2020, 118, 1357-1369.	0.5	18
46	PxdA interacts with the DipA phosphatase to regulate peroxisome hitchhiking on early endosomes. Molecular Biology of the Cell, 2021, 32, 492-503.	2.1	14
47	Probing the Force Generation and Stepping Behavior of Cytoplasmic Dynein. Methods in Molecular Biology, 2011, 783, 63-80.	0.9	13
48	Structural Biology of <scp>LRRK2</scp> and its Interaction with Microtubules. Movement Disorders, 2021, 36, 2494-2504.	3.9	10
49	Engineering Defined Motor Ensembles with DNA Origami. Methods in Enzymology, 2014, 540, 169-188.	1.0	8
50	Dynactin revealed. Nature Structural and Molecular Biology, 2015, 22, 359-360.	8.2	6
51	Optimizing microtubule arrangements for rapid cargo capture. Biophysical Journal, 2021, 120, 4918-4931.	0.5	6
52	Imaging Single Molecular Motor Motility with Total Internal Reflection Fluorescence Microscopy (TIRFM): Movie 1.. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5399.	0.3	4
53	Determining Single-Molecule Intensity as a Function of Power Density: Figure 1.. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5398.	0.3	2
54	Teaming up: from motors to people. Molecular Biology of the Cell, 2013, 24, 3267-3269.	2.1	0

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55	Shifting gears with light. Nature Nanotechnology, 2014, 9, 661-662.	31.5	0
56	Regulation of Cytoplasmic Dynein by Lisl. Microscopy and Microanalysis, 2015, 21, 59-60.	0.4	0