

Roop Mallik

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,186
citations

567281

15
h-index

501196

28
g-index

32
all docs

32
docs citations

32
times ranked

1975
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytoplasmic dynein functions as a gear in response to load. <i>Nature</i> , 2004, 427, 649-652.	27.8	452
2	Tug-of-war between dissimilar teams of microtubule motors regulates transport and fission of endosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19381-19386.	7.1	309
3	Molecular Motors: Strategies to Get Along. <i>Current Biology</i> , 2004, 14, R971-R982.	3.9	272
4	Molecular Adaptations Allow Dynein to Generate Large Collective Forces inside Cells. <i>Cell</i> , 2013, 152, 172-182.	28.9	262
5	Building Complexity: An In Vitro Study of Cytoplasmic Dynein with In Vivo Implications. <i>Current Biology</i> , 2005, 15, 2075-2085.	3.9	186
6	Dynein Clusters into Lipid Microdomains on Phagosomes to Drive Rapid Transport toward Lysosomes. <i>Cell</i> , 2016, 164, 722-734.	28.9	181
7	Teamwork in microtubule motors. <i>Trends in Cell Biology</i> , 2013, 23, 575-582.	7.9	81
8	Monte Carlo modeling of single-molecule cytoplasmic dynein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12059-12064.	7.1	63
9	Inositol hexakisphosphate kinase 1 (IP6K1) activity is required for cytoplasmic dynein-driven transport. <i>Biochemical Journal</i> , 2016, 473, 3031-3047.	3.7	57
10	Quantitative optical trapping on single organelles in cell extract. <i>Nature Methods</i> , 2013, 10, 68-70.	19.0	44
11	Kinesin-dependent mechanism for controlling triglyceride secretion from the liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12958-12963.	7.1	41
12	Lipidomics Suggests a New Role for Ceramide Synthase in Phagocytosis. <i>ACS Chemical Biology</i> , 2018, 13, 2280-2287.	3.4	41
13	Insulin activates intracellular transport of lipid droplets to release triglycerides from the liver. <i>Journal of Cell Biology</i> , 2019, 218, 3697-3713.	5.2	28
14	Studying Molecular Motor-Based Cargo Transport: What Is Real and What Is Noise?. <i>Biophysical Journal</i> , 2007, 92, 2953-2963.	0.5	25
15	Intracellular Transport: How Do Motors Work Together?. <i>Current Biology</i> , 2009, 19, R416-R418.	3.9	20
16	Coin Tossing Explains the Activity of Opposing Microtubule Motors on Phagosomes. <i>Current Biology</i> , 2018, 28, 1460-1466.e4.	3.9	19
17	Lipid - Motor Interactions: Soap Opera or Symphony?. <i>Current Opinion in Cell Biology</i> , 2017, 44, 79-85.	5.4	18
18	On and off controls within dynein-dynactin on native cargoes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14

#	ARTICLE	IF	CITATIONS
19	Feeding-fasting dependent recruitment of membrane microdomain proteins to lipid droplets purified from the liver. PLoS ONE, 2017, 12, e0183022.	2.5	13
20	Molecular motors as cargo transporters in the cell—The good, the bad and the ugly. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 65-69.	2.6	12
21	Simple non-fluorescent polarity labeling of microtubules for molecular motor assays. BioTechniques, 2009, 46, 543-549.	1.8	12
22	Reconstitution of Microtubule-Dependent Organelle Transport. Methods in Enzymology, 2014, 540, 231-248.	1.0	11
23	Mapping Sphingolipid Metabolism Pathways during Phagosomal Maturation. ACS Chemical Biology, 2021, , .	3.4	7
24	Isolation of Latex Bead Phagosomes from Dictyostelium for in vitro Functional Assays. Bio-protocol, 2016, 6, .	0.4	6
25	Metabolic and immune-sensitive contacts between lipid droplets and endoplasmic reticulum reconstituted in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	5
26	Lis1 co-localizes with actin in the phagocytic cup and regulates phagocytosis. Cytoskeleton, 2020, 77, 249-260.	2.0	4
27	Fluorescence microscopy applied to intracellular transport by microtubule motors. Journal of Biosciences, 2018, 43, 437-445.	1.1	2
28	From physics to physiology at the membrane—motor interface. Nature Reviews Molecular Cell Biology, 2020, 21, 61-62.	37.0	1
29	Fluorescence microscopy applied to intracellular transport by microtubule motors. Journal of Biosciences, 2018, 43, 437-445.	1.1	0