Matthew J Tyska

List of Publications by Year
in descending order

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54	4,452	136950	161849
papers	citations	32	54
		h-index	g-index

63	63	63	5714
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exosome Secretion Is Enhanced by Invadopodia and Drives Invasive Behavior. Cell Reports, 2013, 5, 1159-1168.	6.4	428
2	Amphiregulin Exosomes Increase Cancer Cell Invasion. Current Biology, 2011, 21, 779-786.	3.9	309
3	Cortactin promotes exosome secretion by controlling branched actin dynamics. Journal of Cell Biology, 2016, 214, 197-213.	5.2	226
4	Shaping the intestinal brush border. Journal of Cell Biology, 2014, 207, 441-451.	5.2	210
5	The enterocyte microvillus is a vesicle-generating organelle. Journal of Cell Biology, 2009, 185, 1285-1298.	5.2	199
6	The myosin power stroke. Cytoskeleton, 2002, 51, 1-15.	4.4	172
7	Myosin-1a Is Critical for Normal Brush Border Structure and Composition. Molecular Biology of the Cell, 2005, 16, 2443-2457.	2.1	168
8	Control of cell membrane tension by myosin-I. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11972-11977.	7.1	164
9	Intestinal Brush Border Assembly Driven by Protocadherin-Based Intermicrovillar Adhesion. Cell, 2014, 157, 433-446.	28.9	159
10	Leveraging the membrane â€“ cytoskeleton interface with myosin-1. Trends in Cell Biology, 2010, 20, 418-426.	7.9	130
11	A 7-amino-acid insert in the heavy chain nucleotide binding loop alters the kinetics of smooth muscle myosin in the laser trap. Journal of Muscle Research and Cell Motility, 1998, 19, 825-837.	2.0	126
12	R403Q and L908V mutant beta-cardiac myosin from patients with familial hypertrophic cardiomyopathy exhibit enhanced mechanical performance at the single molecule level. Journal of Muscle Research and Cell Motility, 2000, 21, 609-620.	2.0	124
13	The Yeast Class V Myosins, Myo2p and Myo4p, Are Nonprocessive Actin-Based Motors. Journal of Cell Biology, 2001, 153, 1121-1126.	5.2	123
14	Kinetic differences at the single molecule level account for the functional diversity of rabbit cardiac myosin isoforms. Journal of Physiology, 1999, 519, 669-678.	2.9	120
15	Detection of Rare Antigen-Presenting Cells through T Cell-Intrinsic Meandering Motility, Mediated by Myo1g. Cell, 2014, 158, 492-505.	28.9	120
16	Constitutively active ezrin increases membrane tension, slows migration, and impedes endothelial transmigration of lymphocytes in vivo in mice. Blood, 2012, 119, 445-453.	1.4	101
17	Enterocyte Microvillus-Derived Vesicles Detoxify Bacterial Products and Regulate Epithelial-Microbial Interactions. Current Biology, 2012, 22, 627-631.	3.9	100
18	Myosin Vb uncoupling from RAB8A and RAB11A elicits microvillus inclusion disease. Journal of Clinical Investigation, 2014, 124, 2947-2962.	8.2	96

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19	Myosin motor function: the ins and outs of actin-based membrane protrusions. Cellular and Molecular Life Sciences, 2010, 67, 1239-1254.	5.4	91
20	Extracellular vesicles: communication, coercion, and conditioning. Molecular Biology of the Cell, 2013, 24, 1253-1259.	2.1	87
21	Myosin-1a powers the sliding of apical membrane along microvillar actin bundles. Journal of Cell Biology, 2007, 177, 671-681.	5.2	84
22	Myosin at work: Motor adaptations for a variety of cellular functions. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 615-630.	4.1	84
23	Proteomic analysis of the enterocyte brush border. American Journal of Physiology - Renal Physiology, 2011, 300, G914-G926.	3.4	84
24	Myosin-IXb Is a Single-headed and Processive Motor. Journal of Biological Chemistry, 2002, 277, 11679-11683.	3.4	75
25	A role for myosin-1A in the localization of a brush border disaccharidase. Journal of Cell Biology, 2004, 165, 395-405.	5.2	71
26	Membrane-Bound Myo1c Powers Asymmetric Motility of Actin Filaments. Current Biology, 2012, 22, 1688-1692.	3.9	58
27	IRTKS (BAIAP2L1) Elongates Epithelial Microvilli Using EPS8-Dependent and Independent Mechanisms. Current Biology, 2018, 28, 2876-2888.e4.	3.9	58
28	ANKS4B Is Essential for Intermicrovillar Adhesion Complex Formation. Developmental Cell, 2016, 36, 190-200.	7.0	55
29	Myosin-7b Promotes Distal Tip Localization of the Intermicrovillar Adhesion Complex. Current Biology, 2016, 26, 2717-2728.	3.9	51
30	Actin Dynamics Drive Microvillar Motility and Clustering during Brush Border Assembly. Developmental Cell, 2019, 50, 545-556.e4.	7.0	51
31	Differential Localization and Dynamics of Class I Myosins in the Enterocyte Microvillus. Molecular Biology of the Cell, 2010, 21, 970-978.	2.1	48
32	Cordon bleu promotes the assembly of brush border microvilli. Molecular Biology of the Cell, 2015, 26, 3803-3815.	2.1	38
33	Myosin-1A Targets to Microvilli Using Multiple Membrane Binding Motifs in the Tail Homology 1 (TH1) Domain. Journal of Biological Chemistry, 2012, 287, 13104-13115.	3.4	37
34	Structure of Myo7b/USH1C complex suggests a general PDZ domain binding mode by MyTH4-FERM myosins. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3776-E3785.	7.1	36
35	Shear stress induces noncanonical autophagy in intestinal epithelial monolayers. Molecular Biology of the Cell, 2017, 28, 3043-3056.	2.1	35
36	MyTH4-FERM myosins in the assembly and maintenance of actin-based protrusions. Current Opinion in Cell Biology, 2017, 44, 68-78.	5.4	33

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37	Brush border protocadherin CDHR2 promotes the elongation and maximized packing of microvilli in vivo. Molecular Biology of the Cell, 2019, 30, 108-118.	2.1	29
38	Nonmuscle myosin-2 contractility-dependent actin turnover limits the length of epithelial microvilli. Molecular Biology of the Cell, 2020, 31, 2803-2815.	2.1	28
39	Direct visualization of epithelial microvilli biogenesis. Current Biology, 2021, 31, 2561-2575.e6.	3.9	28
40	Myosin-V motility: these levers were made for walking. Trends in Cell Biology, 2003, 13, 447-451.	7.9	25
41	The small EF-hand protein CALML4 functions as a critical myosin light chain within the intermicrovillar adhesion complex. Journal of Biological Chemistry, 2020, 295, 9281-9296.	3.4	22
42	Expression and localization of myosin-1d in the developing nervous system. Brain Research, 2012, 1440, 9-22.	2.2	21
43	Disruption of Rab8a and Rab11a causes formation of basolateral microvilli in neonatal enteropathy. Journal of Cell Science, 2017, 130, 2491-2505.	2.0	21
44	Profilin-Mediated Actin Allocation Regulates the Growth of Epithelial Microvilli. Current Biology, 2019, 29, 3457-3465.e3.	3.9	19
45	Readyâ€¦ aimâ€¦ fire into the lumen. Gut Microbes, 2012, 3, 460-462.	9.8	14
46	PACSIN2-dependent apical endocytosis regulates the morphology of epithelial microvilli. Molecular Biology of the Cell, 2019, 30, 2515-2526.	2.1	14
47	Mitotic Spindle Positioning (MISP) is an actin bundler that selectively stabilizes the rootlets of epithelial microvilli. Cell Reports, 2022, 39, 110692.	6.4	14
48	Dynamics of brush border remodeling induced by enteropathogenicE. coli. Gut Microbes, 2014, 5, 504-516.	9.8	11
49	Motor and Tail Homology 1 (TH1) Domains Antagonistically Control Myosin-1 Dynamics. Biophysical Journal, 2014, 106, 649-658.	0.5	11
50	An alternative N-terminal fold of the intestine-specific annexin A13a induces dimerization and regulates membrane-binding. Journal of Biological Chemistry, 2019, 294, 3454-3463.	3.4	11
51	Myosin-1a. Communicative and Integrative Biology, 2010, 3, 64-66.	1.4	9
52	Heterophilic and homophilic cadherin interactions in intestinal intermicrovillar links are species dependent. PLoS Biology, 2021, 19, e3001463.	5.6	8
53	A heterologous in-cell assay for investigating intermicrovillar adhesion complex interactions reveals a novel protrusion length-matching mechanism. Journal of Biological Chemistry, 2020, 295, 16191-16206.	3.4	7
54	Brush Border Destruction by Enterohemorrhagic Escherichia coli (EHEC): New Insights From Organoid Culture. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 7-8.	4.5	4