Elizabeth A Miller

List of Publications by Year
in descending order

55 papers	4,374 citations	159358 30 h-index	161609 54 g-index
72 all docs	72 docs citations	72 times ranked	5070 citing authors

#	Article	IF	Citations
1	A SURF4-to-proteoglycan relay mechanism that mediates the sorting and secretion of a tagged variant of sonic hedgehog. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113991119.	3.3	14
2	Evolutionary balance between foldability and functionality of a glucose transporter. Nature Chemical Biology, 2022, 18, 713-723.	3.9	13
3	Structure of the complete, membrane-assembled COPII coat reveals a complex interaction network. Nature Communications, 2021, 12, 2034.	5.8	40
4	Structural basis of TRAPPIIIâ€mediated Rab1 activation. EMBO Journal, 2021, 40, e107607.	3.5	24
5	An in vitro vesicle formation assay reveals cargo clients and factors that mediate vesicular trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
6	Membrane protein folding and quality control. Current Opinion in Structural Biology, 2021, 69, 50-54.	2.6	19
7	Computed structures of core eukaryotic protein complexes. Science, 2021, 374, eabm4805.	6.0	316
8	The Ubp3/Bre5 deubiquitylation complex modulates COPII vesicle formation. Traffic, 2020, 21, 702-711.	1.3	4
9	Protein quality control in the endoplasmic reticulum. Current Opinion in Cell Biology, 2020, 65, 96-102.	2.6	50
10	Pre-emptive Quality Control of a Misfolded Membrane Protein by Ribosome-Driven Effects. Current Biology, 2020, 30, 854-864.e5.	1.8	36
11	Cargo crowding contributes to sorting stringency in COPII vesicles. Journal of Cell Biology, 2020, 219, .	2.3	29
12	Combinatorial multivalent interactions drive cooperative assembly of the COPII coat. Journal of Cell Biology, 2020, 219, .	2.3	20
13	Ribosome-associated quality control of membrane proteins at the endoplasmic reticulum. Journal of Cell Science, 2020, 133, .	1.2	18
14	The architecture of EMC reveals a path for membrane protein insertion. ELife, 2020, 9, .	2.8	81
15	Tricalbins Contribute to Cellular Lipid Flux and Form Curved ER-PM Contacts that Are Bridged by Rod-Shaped Structures. Developmental Cell, 2019, 51, 488-502.e8.	3.1	72
16	Protein and lipid interactions â€“ Modulating CFTR trafficking and rescue. Journal of Cystic Fibrosis, 2018, 17, S9-S13.	0.3	6
17	Subtomogram averaging of COPII assemblies reveals how coat organization dictates membrane shape. Nature Communications, 2018, 9, 4154.	5.8	78
18	Autophagosome formation: Where the secretory and autophagy pathways meet. Autophagy, 2017, 13, 973-974.	4.3	33

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19	Two novel effectors of trafficking and maturation of the yeast plasma membrane H⁺â€<scp>ATPase</scp>. Traffic, 2017, 18, 672-682.	1.3	13
20	Sec24 phosphorylation regulates autophagosome abundance during nutrient deprivation. ELife, 2016, 5, .	2.8	73
21	COP-coated vesicles. Current Biology, 2016, 26, R54-R57.	1.8	52
22	Sec24 Is a Coincidence Detector that Simultaneously Binds Two Signals to Drive ER Export. Current Biology, 2015, 25, 403-412.	1.8	66
23	Traffic of p24 Proteins and COPII Coat Composition Mutually Influence Membrane Scaffolding. Current Biology, 2015, 25, 1296-1305.	1.8	29
24	COPII â€" a flexible vesicle formation system. Current Opinion in Cell Biology, 2013, 25, 420-427.	2.6	136
25	A costâ€"benefit analysis of the physical mechanisms of membrane curvature. Nature Cell Biology, 2013, 15, 1019-1027.	4.6	194
26	Secretory Protein Biogenesis and Traffic in the Early Secretory Pathway. Genetics, 2013, 193, 383-410.	1.2	243
27	The COPII cage sharpens its image. Nature Structural and Molecular Biology, 2013, 20, 139-140.	3.6	2
28	Vesicle-mediated export from the ER: COPII coat function and regulation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2464-2472.	1.9	123
29	A sustained passion for intracellular trafficking. Molecular Biology of the Cell, 2013, 24, 3270-3272.	0.9	0
30	The Highly Conserved COPII Coat Complex Sorts Cargo from the Endoplasmic Reticulum and Targets It to the Golgi. Cold Spring Harbor Perspectives in Biology, 2013, 5, a013367-a013367.	2.3	103
31	Csi1 links centromeres to the nuclear envelope for centromere clustering. Journal of Cell Biology, 2012, 199, 735-744.	2.3	79
32	A yeast phenomic model for the gene interaction network modulating CFTR-Î”F508 protein biogenesis. Genome Medicine, 2012, 4, 103.	3.6	76
33	Vesicle-mediated ER export of proteins and lipids. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1040-1049.	1.2	84
34	ER Cargo Properties Specify a Requirement for COPII Coat Rigidity Mediated by Sec13p. Science, 2012, 335, 1359-1362.	6.0	124
35	Sec24p and Sec16p cooperate to regulate the GTP cycle of the COPII coat. EMBO Journal, 2012, 31, 1014-1027.	3.5	88
36	Hph1 and Hph2 Are Novel Components of the Sec63/Sec62 Posttranslational Translocation Complex That Aid in Vacuolar Proton ATPase Biogenesis. Eukaryotic Cell, 2011, 10, 63-71.	3.4	17

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37	Regulation of coat assemblyâ€"sorting things out at the ER. Current Opinion in Cell Biology, 2010, 22, 447-453.	2.6	95
38	Genetic Analysis of Yeast Sec24p Mutants Suggests Cargo Binding Is Not Co-operative during ER Export. Traffic, 2010, 11, 1034-1043.	1.3	8
39	Intragenic Suppressing Mutations Correct the Folding and Intracellular Traffic of Misfolded Mutants of Yor1p, a Eukaryotic Drug Transporter. Journal of Biological Chemistry, 2010, 285, 36304-36314.	1.6	23
40	Functional Rescue of a Misfolded Eukaryotic ATP-binding Cassette Transporter by Domain Replacement. Journal of Biological Chemistry, 2010, 285, 36225-36234.	1.6	4
41	Genomewide Analysis Reveals Novel Pathways Affecting Endoplasmic Reticulum Homeostasis, Protein Modification and Quality Control. Genetics, 2009, 182, 757-769.	1.2	62
42	Plasmodium falciparum Sec24 marks transitional ER that exports a model cargo via a diacidic motif. Molecular Microbiology, 2008, 68, 1535-1546.	1.2	49
43	Mapping of Interdomain Interfaces Required for the Functional Architecture of Yor1p, a Eukaryotic ATP-binding Cassette (ABC) Transporter*. Journal of Biological Chemistry, 2008, 283, 26444-26451.	1.6	23
44	Inhibiting Endoplasmic Reticulum (ER)-associated Degradation of Misfolded Yor1p Does Not Permit ER Export Despite the Presence of a Diacidic Sorting Signal. Molecular Biology of the Cell, 2007, 18, 3398-3413.	0.9	51
45	Molecular mechanisms of COPII vesicle formation. Seminars in Cell and Developmental Biology, 2007, 18, 424-434.	2.3	79
46	Vesicle Tethering: TRAPPing Transport Carriers. Current Biology, 2007, 17, R211-R213.	1.8	1
47	Dual location of a family of proteinase inhibitors within the stigmas of Nicotiana alata. Planta, 2007, 225, 1265-1276.	1.6	11
48	ER-Golgi Transport Defects Are Associated with Mutations in the Sed5p-binding Domain of the COPII Coat Subunit, Sec24p. Molecular Biology of the Cell, 2005, 16, 3719-3726.	0.9	37
49	BI-DIRECTIONAL PROTEIN TRANSPORT BETWEEN THE ER AND GOLGI. Annual Review of Cell and Developmental Biology, 2004, 20, 87-123.	4.0	815
50	Multiple Cargo Binding Sites on the COPII Subunit Sec24p Ensure Capture of Diverse Membrane Proteins into Transport Vesicles. Cell, 2003, 114, 497-509.	13.5	461
51	Identification of a novel four-domain member of the proteinase inhibitor II family from the stigmas of Nicotiana alata. Plant Molecular Biology, 2000, 42, 329-333.	2.0	33
52	Identification and Characterization of a Prevacuolar Compartment in Stigmas of Nicotiana alata. Plant Cell, 1999, 11, 1499-1508.	3.1	54
53	Uncoating the mechanisms of vacuolar protein transport. Trends in Plant Science, 1999, 4, 46-48.	4.3	11
54	Substratum adhesion and gliding in a diatom are mediated by extracellular proteoglycans. Planta, 1997, 203, 213-221.	1.6	144

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55	High molecular mass glycoproteins associated with the siliceous scales and bristles of Mallomonas splendens (Synurophyceae) may be involved in cell surface development and maintenance. Planta, 1996, 199, 219.	1.6	13