

Elizabeth A Miller

List of Publications by Year in descending order

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Version: 2024-02-01

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	BI-DIRECTIONAL PROTEIN TRANSPORT BETWEEN THE ER AND GOLGI. Annual Review of Cell and Developmental Biology, 2004, 20, 87-123.	4.0	815
2	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
3	Computed structures of core eukaryotic protein complexes. Science, 2021, 374, eabm4805.	6.0	316
4	Secretory Protein Biogenesis and Traffic in the Early Secretory Pathway. Genetics, 2013, 193, 383-410.	1.2	243
5	A cost-benefit analysis of the physical mechanisms of membrane curvature. Nature Cell Biology, 2013, 15, 1019-1027.	4.6	194
6	Substratum adhesion and gliding in a diatom are mediated by extracellular proteoglycans. Planta, 1997, 203, 213-221.	1.6	144
7	COPII is a flexible vesicle formation system. Current Opinion in Cell Biology, 2013, 25, 420-427.	2.6	136
8	ER Cargo Properties Specify a Requirement for COPII Coat Rigidity Mediated by Sec13p. Science, 2012, 335, 1359-1362.	6.0	124
9	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
10	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
11	Regulation of coat assembly sorting things out at the ER. Current Opinion in Cell Biology, 2010, 22, 447-453.	2.6	95
12	Sec24p and Sec16p cooperate to regulate the GTP cycle of the COPII coat. EMBO Journal, 2012, 31, 1014-1027.	3.5	88
13	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
14	The architecture of EMC reveals a path for membrane protein insertion. ELife, 2020, 9, .	2.8	81
15	Molecular mechanisms of COPII vesicle formation. Seminars in Cell and Developmental Biology, 2007, 18, 424-434.	2.3	79
16	Csi1 links centromeres to the nuclear envelope for centromere clustering. Journal of Cell Biology, 2012, 199, 735-744.	2.3	79
17	Subtomogram averaging of COPII assemblies reveals how coat organization dictates membrane shape. Nature Communications, 2018, 9, 4154.	5.8	78
18	A yeast phenomic model for the gene interaction network modulating CFTR-F508 protein biogenesis. Genome Medicine, 2012, 4, 103.	3.6	76

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19	Sec24 phosphorylation regulates autophagosome abundance during nutrient deprivation. <i>ELife</i> , 2016, 5, .	2.8	73
20	Tricalbins Contribute to Cellular Lipid Flux and Form Curved ER-PM Contacts that Are Bridged by Rod-Shaped Structures. <i>Developmental Cell</i> , 2019, 51, 488-502.e8.	3.1	72
21	Sec24 Is a Coincidence Detector that Simultaneously Binds Two Signals to Drive ER Export. <i>Current Biology</i> , 2015, 25, 403-412.	1.8	66
22	Genomewide Analysis Reveals Novel Pathways Affecting Endoplasmic Reticulum Homeostasis, Protein Modification and Quality Control. <i>Genetics</i> , 2009, 182, 757-769.	1.2	62
23	Identification and Characterization of a Prevacuolar Compartment in Stigmas of <i>Nicotiana glauca</i> . <i>Plant Cell</i> , 1999, 11, 1499-1508.	3.1	54
24	COP-coated vesicles. <i>Current Biology</i> , 2016, 26, R54-R57.	1.8	52
25	Inhibiting Endoplasmic Reticulum (ER)-associated Degradation of Misfolded Yor1p Does Not Permit ER Export Despite the Presence of a Diacidic Sorting Signal. <i>Molecular Biology of the Cell</i> , 2007, 18, 3398-3413.	0.9	51
26	Protein quality control in the endoplasmic reticulum. <i>Current Opinion in Cell Biology</i> , 2020, 65, 96-102.	2.6	50
27	<i>Plasmodium falciparum</i> Sec24 marks transitional ER that exports a model cargo via a diacidic motif. <i>Molecular Microbiology</i> , 2008, 68, 1535-1546.	1.2	49
28	Structure of the complete, membrane-assembled COPII coat reveals a complex interaction network. <i>Nature Communications</i> , 2021, 12, 2034.	5.8	40
29	ER-Golgi Transport Defects Are Associated with Mutations in the Sed5p-binding Domain of the COPII Coat Subunit, Sec24p. <i>Molecular Biology of the Cell</i> , 2005, 16, 3719-3726.	0.9	37
30	Pre-emptive Quality Control of a Misfolded Membrane Protein by Ribosome-Driven Effects. <i>Current Biology</i> , 2020, 30, 854-864.e5.	1.8	36
31	Identification of a novel four-domain member of the proteinase inhibitor II family from the stigmas of <i>Nicotiana glauca</i> . <i>Plant Molecular Biology</i> , 2000, 42, 329-333.	2.0	33
32	Autophagosome formation: Where the secretory and autophagy pathways meet. <i>Autophagy</i> , 2017, 13, 973-974.	4.3	33
33	Traffic of p24 Proteins and COPII Coat Composition Mutually Influence Membrane Scaffolding. <i>Current Biology</i> , 2015, 25, 1296-1305.	1.8	29
34	Cargo crowding contributes to sorting stringency in COPII vesicles. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	29
35	An in vitro vesicle formation assay reveals cargo clients and factors that mediate vesicular trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	25
36	Structural basis of TRAPPIII-mediated Rab1 activation. <i>EMBO Journal</i> , 2021, 40, e107607.	3.5	24

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37	Mapping of Interdomain Interfaces Required for the Functional Architecture of Yor1p, a Eukaryotic ATP-binding Cassette (ABC) Transporter*. <i>Journal of Biological Chemistry</i> , 2008, 283, 26444-26451.	1.6	23
38	Intragenic Suppressing Mutations Correct the Folding and Intracellular Traffic of Misfolded Mutants of Yor1p, a Eukaryotic Drug Transporter. <i>Journal of Biological Chemistry</i> , 2010, 285, 36304-36314.	1.6	23
39	Combinatorial multivalent interactions drive cooperative assembly of the COPII coat. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	20
40	Membrane protein folding and quality control. <i>Current Opinion in Structural Biology</i> , 2021, 69, 50-54.	2.6	19
41	Ribosome-associated quality control of membrane proteins at the endoplasmic reticulum. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	18
42	Hph1 and Hph2 Are Novel Components of the Sec63/Sec62 Posttranslational Translocation Complex That Aid in Vacuolar Proton ATPase Biogenesis. <i>Eukaryotic Cell</i> , 2011, 10, 63-71.	3.4	17
43	A SURF4-to-proteoglycan relay mechanism that mediates the sorting and secretion of a tagged variant of sonic hedgehog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2113991119.	3.3	14
44	High molecular mass glycoproteins associated with the siliceous scales and bristles of <i>Mallomonas splendens</i> (Synurophyceae) may be involved in cell surface development and maintenance. <i>Planta</i> , 1996, 199, 219.	1.6	13
45	Two novel effectors of trafficking and maturation of the yeast plasma membrane H ⁺ -ATPase. <i>Traffic</i> , 2017, 18, 672-682.	1.3	13
46	Evolutionary balance between foldability and functionality of a glucose transporter. <i>Nature Chemical Biology</i> , 2022, 18, 713-723.	3.9	13
47	Uncoating the mechanisms of vacuolar protein transport. <i>Trends in Plant Science</i> , 1999, 4, 46-48.	4.3	11
48	Dual location of a family of proteinase inhibitors within the stigmas of <i>Nicotiana glauca</i> . <i>Planta</i> , 2007, 225, 1265-1276.	1.6	11
49	Genetic Analysis of Yeast Sec24p Mutants Suggests Cargo Binding Is Not Co-operative during ER Export. <i>Traffic</i> , 2010, 11, 1034-1043.	1.3	8
50	Protein and lipid interactions “ Modulating CFTR trafficking and rescue. <i>Journal of Cystic Fibrosis</i> , 2018, 17, S9-S13.	0.3	6
51	Functional Rescue of a Misfolded Eukaryotic ATP-binding Cassette Transporter by Domain Replacement. <i>Journal of Biological Chemistry</i> , 2010, 285, 36225-36234.	1.6	4
52	The Ubp3/Bre5 deubiquitylation complex modulates COPII vesicle formation. <i>Traffic</i> , 2020, 21, 702-711.	1.3	4
53	The COPII cage sharpens its image. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 139-140.	3.6	2
54	Vesicle Tethering: TRAPPING Transport Carriers. <i>Current Biology</i> , 2007, 17, R211-R213.	1.8	1

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55	A sustained passion for intracellular trafficking. <i>Molecular Biology of the Cell</i> , 2013, 24, 3270-3272.	0.9	0