

Judith Klumperman

List of Publications by Year in descending order

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110
papers

12,823
citations

28274

55
h-index

28297

105
g-index

157
all docs

157
docs citations

157
times ranked

19011
citing authors

#	ARTICLE	IF	CITATIONS
1	Lysosome biogenesis and lysosomal membrane proteins: trafficking meets function. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 623-635.	37.0	1,320
2	Termination of autophagy and reformation of lysosomes regulated by mTOR. <i>Nature</i> , 2010, 465, 942-946.	27.8	1,303
3	Trafficking and function of the tetraspanin CD63. <i>Experimental Cell Research</i> , 2009, 315, 1584-1592.	2.6	605
4	Sorting Nexin-1 Mediates Tubular Endosome-to-TGN Transport through Coincidence Sensing of High-Curvature Membranes and 3-Phosphoinositides. <i>Current Biology</i> , 2004, 14, 1791-1800.	3.9	414
5	Autophagy Proteins Regulate the Secretory Component of Osteoclastic Bone Resorption. <i>Developmental Cell</i> , 2011, 21, 966-974.	7.0	401
6	Akt inhibition promotes autophagy and sensitizes PTEN-null tumors to lysosomotropic agents. <i>Journal of Cell Biology</i> , 2008, 183, 101-116.	5.2	365
7	Association of the AP-3 Adaptor Complex with Clathrin. <i>Science</i> , 1998, 280, 431-434.	12.6	362
8	Changes in the Synaptic Proteome in Tauopathy and Rescue of Tau-Induced Synapse Loss by C1q Antibodies. <i>Neuron</i> , 2018, 100, 1322-1336.e7.	8.1	330
9	Localization of the AP-3 adaptor complex defines a novel endosomal exit site for lysosomal membrane proteins. <i>Journal of Cell Biology</i> , 2004, 164, 1065-1076.	5.2	329
10	Bilayered Clathrin Coats on Endosomal Vacuoles Are Involved in Protein Sorting toward Lysosomes. <i>Molecular Biology of the Cell</i> , 2002, 13, 1313-1328.	2.1	319
11	Vesicular Tubular Clusters between the ER and Golgi Mediate Concentration of Soluble Secretory Proteins by Exclusion from COPI-Coated Vesicles. <i>Cell</i> , 1999, 98, 81-90.	28.9	298
12	The Complex Ultrastructure of the Endolysosomal System. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a016857-a016857.	5.5	282
13	Mannose 6-Phosphate Receptors Are Sorted from Immature Secretory Granules via Adaptor Protein AP-1, Clathrin, and Syntaxin 3-positive Vesicles. <i>Journal of Cell Biology</i> , 1998, 141, 359-371.	5.2	277
14	Endosomes are specialized platforms for bacterial sensing and NOD2 signalling. <i>Nature</i> , 2014, 509, 240-244.	27.8	259
15	Mesenchymal Stromal/stem Cell-derived Extracellular Vesicles Promote Human Cartilage Regeneration <i>In Vitro</i> . <i>Theranostics</i> , 2018, 8, 906-920.	10.0	252
16	Vamp-7 Mediates Vesicular Transport from Endosomes to Lysosomes. <i>Journal of Cell Biology</i> , 1999, 146, 765-776.	5.2	179
17	Rab14 Is Involved in Membrane Trafficking between the Golgi Complex and Endosomes. <i>Molecular Biology of the Cell</i> , 2004, 15, 2218-2229.	2.1	177
18	Immuno-electron tomography of ER exit sites reveals the existence of free COPII-coated transport carriers. <i>Nature Cell Biology</i> , 2006, 8, 377-383.	10.3	173

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19	Correlative light-electron microscopy (CLEM) combining live-cell imaging and immunolabeling of ultrathin cryosections. <i>Nature Methods</i> , 2008, 5, 973-980.	19.0	170
20	EGFL7 regulates the collective migration of endothelial cells by restricting their spatial distribution. <i>Development (Cambridge)</i> , 2007, 134, 2913-2923.	2.5	169
21	Differential Sorting of Lysosomal Enzymes Out of the Regulated Secretory Pathway in Pancreatic β -Cells. <i>Journal of Cell Biology</i> , 1997, 137, 595-608.	5.2	167
22	The UIM domain of Hrs couples receptor sorting to vesicle formation. <i>Journal of Cell Science</i> , 2003, 116, 4169-4179.	2.0	164
23	Single-cell analysis uncovers that metabolic reprogramming by ErbB2 signaling is essential for cardiomyocyte proliferation in the regenerating heart. <i>ELife</i> , 2019, 8, .	6.0	162
24	Peri-Golgi vesicles contain retrograde but not anterograde proteins consistent with the cisternal progression model of intra-Golgi transport. <i>Journal of Cell Biology</i> , 2001, 155, 1213-1224.	5.2	161
25	Architecture of the Mammalian Golgi. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a005181-a005181.	5.5	154
26	Loss of Syntaxin 3 Causes Variant Microvillus Inclusion Disease. <i>Gastroenterology</i> , 2014, 147, 65-68.e10.	1.3	151
27	SNX1 Defines an Early Endosomal Recycling Exit for Sortilin and Mannose 6-Phosphate Receptors. <i>Traffic</i> , 2008, 9, 380-393.	2.7	145
28	Differential Roles of Syntaxin 7 and Syntaxin 8 in Endosomal Trafficking. <i>Molecular Biology of the Cell</i> , 1999, 10, 3891-3908.	2.1	130
29	Transport between ER and Golgi. <i>Current Opinion in Cell Biology</i> , 2000, 12, 445-449.	5.4	130
30	hVps41 and VAMP7 function in direct TGN to late endosome transport of lysosomal membrane proteins. <i>Nature Communications</i> , 2013, 4, 1361.	12.8	129
31	Vesicle-associated Membrane Protein 4 is Implicated in <i>Trans</i> -Golgi Network Vesicle Trafficking. <i>Molecular Biology of the Cell</i> , 1999, 10, 1957-1972.	2.1	127
32	The maturing role of COPI vesicles in intra-Golgi transport. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 812-817.	37.0	122
33	Molecular Pathway of Microtubule Organization at the Golgi Apparatus. <i>Developmental Cell</i> , 2016, 39, 44-60.	7.0	114
34	Atg5-Independent Sequestration of Ubiquitinated Mycobacteria. <i>PLoS Pathogens</i> , 2009, 5, e1000430.	4.7	109
35	Imaging and imagination: understanding the endo-lysosomal system. <i>Histochemistry and Cell Biology</i> , 2008, 129, 253-266.	1.7	107
36	Sorting nexin-2 is associated with tubular elements of the early endosome, but is not essential for retromer-mediated endosome-to-TGN transport. <i>Journal of Cell Science</i> , 2005, 118, 4527-4539.	2.0	99

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37	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 443001.	2.8	99
38	Death-receptor activation halts clathrin-dependent endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10283-10288.	7.1	98
39	The <scp>HOPS</scp> Proteins <scp>hVps41</scp> and <scp>hVps39</scp> Are Required for Homotypic and Heterotypic Late Endosome Fusion. <i>Traffic</i> , 2013, 14, 219-232.	2.7	98
40	Lysosome-Associated Membrane Proteins (LAMP) Maintain Pancreatic Acinar Cell Homeostasis: LAMP-2â€“Deficient Mice Develop Pancreatitis. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2015, 1, 678-694.	4.5	95
41	Dynamic kinetochore size regulation promotes microtubule capture and chromosome biorientation in mitosis. <i>Nature Cell Biology</i> , 2018, 20, 800-810.	10.3	92
42	Neuron Specific Rab4 Effector GRASP-1 Coordinates Membrane Specialization and Maturation of Recycling Endosomes. <i>PLoS Biology</i> , 2010, 8, e1000283.	5.6	86
43	Characterization of the Mammalian CORVET and HOPS Complexes and Their Modular Restructuring for Endosome Specificity. <i>Journal of Biological Chemistry</i> , 2015, 290, 30280-30290.	3.4	84
44	CORVET, CHEVI and HOPS â€“ multisubunit tethers of the endo-lysosomal system in health and disease. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	79
45	EB1 and EB3 regulate microtubule minus end organization and Golgi morphology. <i>Journal of Cell Biology</i> , 2017, 216, 3179-3198.	5.2	76
46	Rabaptin-5alpha/rabaptin-4 serves as a linker between rab4 and gamma1-adaptin in membrane recycling from endosomes. <i>EMBO Journal</i> , 2003, 22, 2645-2657.	7.8	74
47	Associations among genotype, clinical phenotype, and intracellular localization of trafficking proteins in ARC syndrome. <i>Human Mutation</i> , 2012, 33, 1656-1664.	2.5	74
48	Single organelle dynamics linked to 3D structure by correlative liveâ€“cell imaging and 3D electron microscopy. <i>Traffic</i> , 2018, 19, 354-369.	2.7	72
49	The ubiquitinâ€“conjugating enzyme <scp>UBE</scp> 2 <scp>QL</scp> 1 coordinates lysophagy in response to endolysosomal damage. <i>EMBO Reports</i> , 2019, 20, e48014.	4.5	71
50	An inducible mouse model for microvillus inclusion disease reveals a role for myosin Vb in apical and basolateral trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12408-12413.	7.1	67
51	SNARE Membrane Trafficking Dynamics In Vivo. <i>Journal of Cell Biology</i> , 1999, 144, 869-881.	5.2	66
52	Endosomes: multipurpose designs for integrating housekeeping and specialized tasks. <i>Histochemistry and Cell Biology</i> , 2002, 117, 91-104.	1.7	66
53	An Organoid for Woven Bone. <i>Advanced Functional Materials</i> , 2021, 31, 2010524.	14.9	65
54	Rab4 Regulates Formation of Synaptic-like Microvesicles from Early Endosomes in PC12 Cells. <i>Molecular Biology of the Cell</i> , 2001, 12, 3703-3715.	2.1	62

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55	ATPase-deficient hVPS4 impairs formation of internal endosomal vesicles and stabilizes bilayered clathrin coats on endosomal vacuoles. <i>Journal of Cell Science</i> , 2004, 117, 1699-1708.	2.0	61
56	Synaptic Vesicles Form by Budding from Tubular Extensions of Sorting Endosomes in PC12 Cells. <i>Molecular Biology of the Cell</i> , 1999, 10, 4163-4176.	2.1	58
57	<sc>SKIP</sc> recruits <sc>HOPS</sc> to control late endosome transport. <i>EMBO Journal</i> , 2020, 39, e102301.	7.8	58
58	A Novel Flat-embedding Method to Prepare Ultrathin Cryosections from Cultured Cells in Their In Situ Orientation. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 1067-1080.	2.5	52
59	The ER to Golgi Interface is the Major Concentration Site of Secretory Proteins in the Exocrine Pancreatic Cell. <i>Traffic</i> , 2001, 2, 831-838.	2.7	46
60	Cathepsin D and its newly identified transport receptor Sez6l2 can modulate neurite outgrowth. <i>Journal of Cell Science</i> , 2016, 129, 557-68.	2.0	46
61	Î±-Synuclein fibrils subvert lysosome structure and function for the propagation of protein misfolding between cells through tunneling nanotubes. <i>PLoS Biology</i> , 2021, 19, e3001287.	5.6	45
62	Electron microscopy in cell biology: integrating structure and function. <i>Nature Reviews Molecular Cell Biology</i> , 2003, Suppl, SS6-10.	37.0	44
63	Disruption of the Manâ€™P Targeting Pathway in Mice Impairs Osteoclast Secretory Lysosome Biogenesis. <i>Traffic</i> , 2011, 12, 912-924.	2.7	43
64	Apoptosis-linked Gene-2 (ALG-2)/Sec31 Interactions Regulate Endoplasmic Reticulum (ER)-to-Golgi Transport. <i>Journal of Biological Chemistry</i> , 2014, 289, 23609-23628.	3.4	43
65	Vps3 and Vps8 control integrin trafficking from early to recycling endosomes and regulate integrin-dependent functions. <i>Nature Communications</i> , 2018, 9, 792.	12.8	40
66	rab4 Function in Membrane Recycling from Early Endosomes Depends on a Membrane to Cytoplasm Cycle. <i>Journal of Biological Chemistry</i> , 2002, 277, 32029-32035.	3.4	38
67	Ultrastructural Characterization of Membrane Rearrangements Induced by Porcine Epidemic Diarrhea Virus Infection. <i>Viruses</i> , 2017, 9, 251.	3.3	37
68	Fluorescently Labelled Silica Coated Gold Nanoparticles as Fiducial Markers for Correlative Light and Electron Microscopy. <i>Scientific Reports</i> , 2018, 8, 13625.	3.3	35
69	Apolipoprotein L1-Specific Antibodies Detect Endogenous APOL1 inside the Endoplasmic Reticulum and on the Plasma Membrane of Podocytes. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 2044-2064.	6.1	33
70	Quantitative correlative microscopy reveals the ultrastructural distribution of endogenous endosomal proteins. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	33
71	<i>Egfl7</i> knockdown causes defects in the extension and junctional arrangements of endothelial cells during zebrafish vasculogenesis. <i>Developmental Dynamics</i> , 2008, 237, 580-591.	1.8	32
72	Lysosomal Membrane Protein Composition, Acidic pH and Sterol Content are Regulated via a Light-Dependent Pathway in Metazoan Cells. <i>Traffic</i> , 2011, 12, 1037-1055.	2.7	32

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73	ERâ€™s lysosome contacts at a pre-axonal region regulate axonal lysosome availability. <i>Nature Communications</i> , 2021, 12, 4493.	12.8	32
74	<scp>Vps33B</scp> is required for delivery of endocytosed cargo to lysosomes. <i>Traffic</i> , 2015, 16, 1288-1305.	2.7	30
75	Vacuolization of mucopolidosis type II mouse exocrine gland cells represents accumulation of autolysosomes. <i>Molecular Biology of the Cell</i> , 2011, 22, 1135-1147.	2.1	27
76	A mouse model for SPG48 reveals a block of autophagic flux upon disruption of adaptor protein complex five. <i>Neurobiology of Disease</i> , 2019, 127, 419-431.	4.4	26
77	Neurodegenerative <i>VPS41</i> variants inhibit HOPS function and mTORC1â€™dependent TFEB/TFE3 regulation. <i>EMBO Molecular Medicine</i> , 2021, 13, e13258.	6.9	26
78	High accuracy, fiducial marker-based image registration of correlative microscopy images. <i>Scientific Reports</i> , 2019, 9, 3211.	3.3	24
79	The stress-sensing domain of activated IRE1â€™ forms helical filaments in narrow ER membrane tubes. <i>Science</i> , 2021, 374, 52-57.	12.6	24
80	The hepatic WASH complex is required for efficient plasma LDL and HDL cholesterol clearance. <i>JCI Insight</i> , 2019, 4, .	5.0	24
81	Cysteamineâ€™bicalutamide combination therapy corrects proximal tubule phenotype in cystinosis. <i>EMBO Molecular Medicine</i> , 2021, 13, e13067.	6.9	23
82	Identification of the ubiquitin ligase Triad1 as a regulator of endosomal transport. <i>Biology Open</i> , 2012, 1, 607-614.	1.2	21
83	Aquaporin-3 regulates endosome-to-cytosol transfer via lipid peroxidation for cross presentation. <i>PLoS ONE</i> , 2020, 15, e0238484.	2.5	20
84	HEPES activates a MiT/TFE-dependent lysosomal-autophagic gene network in cultured cells: A call for caution. <i>Autophagy</i> , 2018, 14, 437-449.	9.1	18
85	High Resolution Proteomic Analysis of Subcellular Fractionated Boar Spermatozoa Provides Comprehensive Insights Into Perinuclear Theca-Residing Proteins. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 836208.	3.7	16
86	DGAT2 partially compensates for lipid-induced ER stress in human DGAT1-deficient intestinal stem cells. <i>Journal of Lipid Research</i> , 2019, 60, 1787-1800.	4.2	14
87	HC StratoMineR: A Web-Based Tool for the Rapid Analysis of High-Content Datasets. <i>Assay and Drug Development Technologies</i> , 2016, 14, 439-452.	1.2	11
88	A paralog-specific role of COPI vesicles in the neuronal differentiation of mouse pluripotent cells. <i>Life Science Alliance</i> , 2020, 3, e202000714.	2.8	11
89	Integrated super resolution fluorescence microscopy and transmission electron microscopy. <i>Ultramicroscopy</i> , 2020, 215, 113007.	1.9	10
90	Pancreatic â€™-Cellâ€™ Specific Deletion of VPS41 Causes Diabetes Due to Defects in Insulin Secretion. <i>Diabetes</i> , 2021, 70, 436-448.	0.6	10

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91	Visualizing the cellular route of entry of a cystine-knot peptide with Xfect transfection reagent by electron microscopy. <i>Scientific Reports</i> , 2019, 9, 6907.	3.3	9
92	Wiskott-Aldrich syndrome protein restricts cGAS/STING activation by dsDNA immune complexes. <i>JCI Insight</i> , 2020, 5, .	5.0	9
93	Quantitative 3D microscopy highlights altered von Willebrand factor Î±â€‰granule storage in patients with von Willebrand disease with distinct pathogenic mechanisms. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2021, 5, e12595.	2.3	7
94	Quantifying lymphocyte vacuolization serves as a measure of CLN3 disease severity. <i>JIMD Reports</i> , 2020, 54, 87-97.	1.5	6
95	An optimized protocol for immuno-electron microscopy of endogenous LC3. <i>Autophagy</i> , 2022, 18, 3004-3022.	9.1	6
96	Correlative Organelle Microscopy: Fluorescence Guided Volume Electron Microscopy of Intracellular Processes. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 829545.	3.7	6
97	Bimodal endocytic probe for three-dimensional correlative light and electron microscopy. <i>Cell Reports Methods</i> , 2022, 2, 100220.	2.9	6
98	TGN exit of the cation-independent mannose 6-phosphate receptor does not require acid hydrolase binding. <i>Cellular Logistics</i> , 2014, 4, e954441.	0.9	5
99	Optimization of negative stage bias potential for faster imaging in large-scale electron microscopy. <i>Journal of Structural Biology: X</i> , 2021, 5, 100046.	1.3	4
100	The potential and limitations of intrahepatic cholangiocyte organoids to study inborn errors of metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2022, 45, 353-365.	3.6	4
101	FER regulates endosomal recycling and is a predictor for adjuvant taxane benefit in breast cancer. <i>Cell Reports</i> , 2022, 39, 110584.	6.4	4
102	Improving Comprehension Efficiency of High Content Screening Data Through Interactive Visualizations. <i>Assay and Drug Development Technologies</i> , 2017, 15, 247-256.	1.2	3
103	Understanding membrane traffic from molecular ensemble, energetics, and the cell biology of participant components. <i>Current Opinion in Cell Biology</i> , 2021, 71, iii-vi.	5.4	2
104	Fatty acylation enhances the cellular internalization and cytosolic distribution of a cystine-knot peptide. <i>IScience</i> , 2021, 24, 103220.	4.1	2
105	HTS-IA. <i>International Journal of Healthcare Information Systems and Informatics</i> , 2013, 8, 17-31.	0.9	1
106	Feasibility of Immuno-TRITC Labeling in Integrated 3D CLEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 64-65.	0.4	0
107	Aquaporin-3 regulates endosome-to-cytosol transfer via lipid peroxidation for cross presentation. , 2020, 15, e0238484.		0
108	Aquaporin-3 regulates endosome-to-cytosol transfer via lipid peroxidation for cross presentation. , 2020, 15, e0238484.		0

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109	Aquaporin-3 regulates endosome-to-cytosol transfer via lipid peroxidation for cross presentation. , 2020, 15, e0238484.		0
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