Eija S Jokitalo

List of Publications by Year
in descending order

118	9,328	38742 50	45317 90
papers	citations	h-index	g-index

130	130	130	14246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D tomography reveals connections between the phagophore and endoplasmic reticulum. Autophagy, 2009, 5, 1180-1185.	9.1	595
2	Callose Biosynthesis Regulates Symplastic Trafficking during Root Development. Developmental Cell, 2011, 21, 1144-1155.	7.0	394
3	Missing-in-metastasis and IRSp53 deform PI(4,5)P2-rich membranes by an inverse BAR domainâ€“like mechanism. Journal of Cell Biology, 2007, 176, 953-964.	5.2	349
4	Heterochromatin-Driven Nuclear Softening Protects the Genome against Mechanical Stress-Induced Damage. Cell, 2020, 181, 800-817.e22.	28.9	341
5	Composition and Dynamics of Human Mitochondrial Nucleoids. Molecular Biology of the Cell, 2003, 14, 1583-1596.	2.1	316
6	Microscopy Image Browser: A Platform for Segmentation and Analysis of Multidimensional Datasets. PLoS Biology, 2016, 14, e1002340.	5.6	311
7	A Role for Giantin in Docking COPI Vesicles to Golgi Membranes. Journal of Cell Biology, 1998, 140, 1013-1021.	5.2	291
8	Cdc2 Kinase Directly Phosphorylates the cis-Golgi Matrix Protein GM130 and Is Required for Golgi Fragmentation in Mitosis. Cell, 1998, 94, 783-793.	28.9	277
9	Seipin regulates <scp>ER</scp>â€“lipid droplet contacts and cargo delivery. EMBO Journal, 2016, 35, 2699-2716.	7.8	258
10	Matrix proteins can generate the higher order architecture of the Golgi apparatus. Nature, 2000, 407, 1022-1026.	27.8	245
11	Chapter 10 Monitoring Autophagy by Electron Microscopy in Mammalian Cells. Methods in Enzymology, 2009, 452, 143-164.	1.0	227
12	Endoplasmic reticulum remains continuous and undergoes sheet-to-tubule transformation during cell division in mammalian cells. Journal of Cell Biology, 2007, 179, 895-909.	5.2	211
13	VCIP135, a novel essential factor for p97/p47-mediated membrane fusion, is required for Golgi and ER assembly in vivo. Journal of Cell Biology, 2002, 159, 855-866.	5.2	188
14	Arabidopsis NAC45/86 direct sieve element morphogenesis culminating in enucleation. Science, 2014, 345, 933-937.	12.6	173
15	The Role of the Tethering Proteins p115 and GM130 in Transport through the Golgi Apparatus In Vivo. Molecular Biology of the Cell, 2000, 11, 635-645.	2.1	165
16	Progressive sheet-to-tubule transformation is a general mechanism for endoplasmic reticulum partitioning in dividing mammalian cells. Molecular Biology of the Cell, 2012, 23, 2424-2432.	2.1	149
17	Seipin Facilitates Triglyceride Flow to Lipid Droplet and Counteracts Droplet Ripening via Endoplasmic Reticulum Contact. Developmental Cell, 2019, 50, 478-493.e9.	7.0	149
18	COMPLEMENT ACTIVATION ASSOCIATES WITH SACCULARCEREBRAL ARTERY ANEURYSM WALL DEGENERATION AND RUPTURE. Neurosurgery, 2006, 59, 1069-1077.	1.1	145

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19	PML isoform II plays a critical role in nuclear lipid droplet formation. Journal of Cell Biology, 2016, 212, 29-38.	5.2	141
20	The tumor suppressor PTEN has a critical role in antiviral innate immunity. Nature Immunology, 2016, 17, 241-249.	14.5	138
21	Functional, metabolic and transcriptional maturation of human pancreatic islets derived from stem cells. Nature Biotechnology, 2022, 40, 1042-1055.	17.5	135
22	Properly Folded Nonstructural Polyprotein Directs the Semliki Forest Virus Replication Complex to the Endosomal Compartment. Journal of Virology, 2003, 77, 1691-1702.	3.4	120
23	Ultrastructural relationship of the phagophore with surrounding organelles. Autophagy, 2015, 11, 439-451.	9.1	117
24	Strigolactone- and Karrikin-Independent SMXL Proteins Are Central Regulators of Phloem Formation. Current Biology, 2017, 27, 1241-1247.	3.9	117
25	Secretion of Tau via an Unconventional Non-vesicular Mechanism. Cell Reports, 2018, 25, 2027-2035.e4.	6.4	117
26	Selective retention of secretory proteins in the yeast endoplasmic reticulum by treatment of cells with a reducing agent. Yeast, 1994, 10, 355-370.	1.7	108
27	GRASP55 Senses Glucose Deprivation through O-GlcNAcylation to Promote Autophagosome-Lysosome Fusion. Developmental Cell, 2018, 45, 245-261.e6.	7.0	108
28	Normal stroma suppresses cancer cell proliferation via mechanosensitive regulation of JMJD1a-mediated transcription. Nature Communications, 2016, 7, 12237.	12.8	105
29	Golgi clusters and vesicles mediate mitotic inheritance independently of the endoplasmic reticulum. Journal of Cell Biology, 2001, 154, 317-330.	5.2	102
30	Selective Autophagy of Mitochondria on a Ubiquitin-Endoplasmic-Reticulum Platform. Developmental Cell, 2019, 50, 627-643.e5.	7.0	101
31	Role of the Amphipathic Peptide of Semliki Forest Virus Replicase Protein nsP1 in Membrane Association and Virus Replication. Journal of Virology, 2007, 81, 872-883.	3.4	98
32	The localization and phosphorylation of p47 are important for Golgi disassemblyâ€“assembly during the cell cycle. Journal of Cell Biology, 2003, 161, 1067-1079.	5.2	96
33	p37 Is a p97 Adaptor Required for Golgi and ER Biogenesis in Interphase and at the End of Mitosis. Developmental Cell, 2006, 11, 803-816.	7.0	95
34	Defective endocytic trafficking of NPC1 and NPC2 underlying infantile Niemann-Pick type C disease. Human Molecular Genetics, 2003, 12, 257-272.	2.9	86
35	Pinkbar is an epithelial-specific BAR domain protein that generates planar membrane structures. Nature Structural and Molecular Biology, 2011, 18, 902-907.	8.2	84
36	Assembly of Alphavirus Replication Complexes from RNA and Protein Components in a Novel trans -Replication System in Mammalian Cells. Journal of Virology, 2011, 85, 4739-4751.	3.4	84

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37	Prostatic Acid Phosphatase Is Not a Prostate Specific Target. Cancer Research, 2007, 67, 6549-6554.	0.9	83
38	Mitochondria Permeability Transition versus Necroptosis in Oxalate-Induced AKI. Journal of the American Society of Nephrology: JASN, 2019, 30, 1857-1869.	6.1	81
39	Template RNA Length Determines the Size of Replication Complex Spherules for Semliki Forest Virus. Journal of Virology, 2013, 87, 9125-9134.	3.4	74
40	MLN64 Is Involved in Actin-mediated Dynamics of Late Endocytic Organelles. Molecular Biology of the Cell, 2005, 16, 3873-3886.	2.1	71
41	CHOLINE TRANSPORTER-LIKE1 is required for sieve plate development to mediate long-distance cell-to-cell communication. Nature Communications, 2014, 5, 4276.	12.8	69
42	ER sheet persistence is coupled to myosin 1câ€“regulated dynamic actin filament arrays. Molecular Biology of the Cell, 2014, 25, 1111-1126.	2.1	68
43	The effect of Golgi depletion on exocytic transport. Nature Cell Biology, 2000, 2, 840-846.	10.3	66
44	GDNF-deprived sympathetic neurons die via a novel nonmitochondrial pathway. Journal of Cell Biology, 2003, 163, 987-997.	5.2	65
45	Sphingolipid biosynthesis modulates plasmodesmal ultrastructure and phloem unloading. Nature Plants, 2019, 5, 604-615.	9.3	65
46	Defective insulin receptor activation and altered lipid rafts in Niemannâ€“Pick type C disease hepatocytes. Biochemical Journal, 2005, 391, 465-472.	3.7	61
47	How to Bury the Dead: Elimination of Apoptotic Hair Cells from the Hearing Organ of the Mouse. JARO - Journal of the Association for Research in Otolaryngology, 2014, 15, 975-992.	1.8	58
48	YIPF5 mutations cause neonatal diabetes and microcephaly through endoplasmic reticulum stress. Journal of Clinical Investigation, 2020, 130, 6338-6353.	8.2	58
49	Characterization of the Intracellular Localization, Processing, and Secretion of Two Glial Cell Line-Derived Neurotrophic Factor Splice Isoforms. Journal of Neuroscience, 2010, 30, 11403-11413.	3.6	57
50	Extracellular Lipids Accumulate in Human Carotid Arteries as Distinct Three-Dimensional Structures and Have Proinflammatory Properties. American Journal of Pathology, 2018, 188, 525-538.	3.8	56
51	Protein Delivery with Transportans Is Mediated by Caveolae Rather Than Flotillin-Dependent Pathways. Bioconjugate Chemistry, 2009, 20, 877-887.	3.6	54
52	Seipin traps triacylglycerols to facilitate their nanoscale clustering in the endoplasmic reticulum membrane. PLoS Biology, 2021, 19, e3000998.	5.6	54
53	MANF Is Required for the Postnatal Expansion and Maintenance of Pancreatic Î²-Cell Mass in Mice. Diabetes, 2019, 68, 66-80.	0.6	50
54	Genetic Control of Myelin Plasticity after Chronic Psychosocial Stress. ENeuro, 2018, 5, ENEURO.0166-18.2018.	1.9	48

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55	Automated 3D Axonal Morphometry of White Matter. Scientific Reports, 2019, 9, 6084.	3.3	46
56	Secretion of Sterols and the NPC2 Protein from Primary Astrocytes. Journal of Biological Chemistry, 2004, 279, 48654-48662.	3.4	44
57	Multi-omics analysis identifies mitochondrial pathways associated with anxiety-related behavior. PLoS Genetics, 2019, 15, e1008358.	3.5	43
58	DeepMIB: User-friendly and open-source software for training of deep learning network for biological image segmentation. PLoS Computational Biology, 2021, 17, e1008374.	3.2	42
59	Cholesterol Substitution Increases the Structural Heterogeneity of Caveolae. Journal of Biological Chemistry, 2008, 283, 14610-14618.	3.4	41
60	Up-regulation of Î²2 and Î±7 subunit containing nicotinic acetylcholine receptors in mouse striatum at cellular level. European Journal of Neuroscience, 2005, 21, 2681-2691.	2.6	40
61	Abnormal cerebellar development and ataxia in CARP VIII morphant zebrafish. Human Molecular Genetics, 2013, 22, 417-432.	2.9	39
62	Membrane protrusion powers clathrinâ€independent endocytosis of interleukinâ€2 receptor. EMBO Journal, 2015, 34, 2147-2161.	7.8	39
63	REEP3 and REEP4 determine the tubular morphology of the endoplasmic reticulum during mitosis. Molecular Biology of the Cell, 2019, 30, 1377-1389.	2.1	37
64	GORAB scaffolds COPI at the trans-Golgi for efficient enzyme recycling and correct protein glycosylation. Nature Communications, 2019, 10, 127.	12.8	37
65	Quantification of anisotropy and orientation in 3D electron microscopy and diffusion tensor imaging in injured rat brain. NeuroImage, 2018, 172, 404-414.	4.2	36
66	Genome-wide RNAi screen for nuclear actin reveals a network of cofilin regulators. Journal of Cell Science, 2015, 128, 2388-2400.	2.0	35
67	Partially Uncleaved Alphavirus Replicase Forms Spherule Structures in the Presence and Absence of RNA Template. Journal of Virology, 2017, 91, .	3.4	34
68	The versatile electron microscope: An ultrastructural overview of autophagy. Methods, 2015, 75, 44-53.	3.8	33
69	Myosin-X and talin modulate integrin activity at filopodia tips. Cell Reports, 2021, 36, 109716.	6.4	33
70	Cdc42-dependent structural development of auditory supporting cells is required for wound healing at adulthood. Scientific Reports, 2012, 2, 978.	3.3	32
71	Intrastriatally Infused Exogenous CDNF Is Endocytosed and Retrogradely Transported to Substantia Nigra. ENeuro, 2017, 4, ENEURO.0128-16.2017.	1.9	32
72	RNA Replication and Membrane Modification Require the Same Functions of Alphavirus Nonstructural Proteins. Journal of Virology, 2016, 90, 1687-1692.	3.4	31

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73	Structural features of a polypeptide carrier promoting secretion of a Î²-lactamase fusion protein in yeast. Yeast, 1995, 11, 1381-1391.	1.7	30
74	Folding of Active Î²-Lactamase in the Yeast Cytoplasm before Translocation into the Endoplasmic Reticulum. Molecular Biology of the Cell, 1998, 9, 817-827.	2.1	30
75	DeepACSON automated segmentation of white matter in 3D electron microscopy. Communications Biology, 2021, 4, 179.	4.4	30
76	Indications of lymphatic endothelial differentiation and endothelial progenitor cell activation in the pathology of proliferative diabetic retinopathy. Acta Ophthalmologica, 2015, 93, 512-523.	1.1	29
77	Seipin localizes at endoplasmic-reticulum-mitochondria contact sites to control mitochondrial calcium import and metabolism in adipocytes. Cell Reports, 2022, 38, 110213.	6.4	29
78	NOGO-A/RTN4A and NOGO-B/RTN4B are simultaneously expressed in epithelial, fibroblast and neuronal cells and maintain ER morphology. Scientific Reports, 2016, 6, 35969.	3.3	28
79	OSBP-related protein-2 (ORP2): a novel Akt effector that controls cellular energy metabolism. Cellular and Molecular Life Sciences, 2018, 75, 4041-4057.	5.4	27
80	Regulation of sympathetic neuron and neuroblastoma cell death by XIAP and its association with proteasomes in neural cells. Molecular and Cellular Neurosciences, 2003, 22, 308-318.	2.2	26
81	Characterization of YIPF3 and YIPF4, cis-Golgi Localizing Yip Domain Family Proteins. Cell Structure and Function, 2011, 36, 171-185.	1.1	26
82	Mitochondrial stress response triggered by defects in protein synthesis quality control. Life Science Alliance, 2019, 2, e201800219.	2.8	26
83	Correlative light and electron microscopy enables viral replication studies at the ultrastructural level. Methods, 2015, 90, 49-56.	3.8	25
84	Golgi apparatus partitioning during cell division (Review). Molecular Membrane Biology, 2003, 20, 117-127.	2.0	24
85	Intracellular localization and effects of individually expressed human parechovirus 1 non-structural proteins. Journal of General Virology, 2007, 88, 831-841.	2.9	24
86	Endosomal Actin Remodeling by Coronin-1A Controls Lipoprotein Uptake and Degradation in Macrophages. Circulation Research, 2012, 110, 450-455.	4.5	20
87	A Hitchhiker's guide through the bioâ€image analysis software universe. FEBS Letters, 2022, 596, 2472-2485.	2.8	20
88	Active and specific recruitment of a soluble cargo protein for endoplasmic reticulum exit in the absence of functional COPII component Sec24p. Journal of Cell Science, 2004, 117, 1665-1673.	2.0	19
89	FYCO1 and autophagy control the integrity of the haploid male germ cell-specific RNP granules. Autophagy, 2017, 13, 302-321.	9.1	19
90	Characterization and subcellular localization of human neutral class IIÎ±-mannosidase cytosolic enzymes/free oligosaccharides/glycosidehydrolase family 38/M2C1/N-glycosylation. Glycobiology, 2007, 17, 1084-1093.	2.5	18

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91	ER sheetâ€“tubule balance is regulated by an array of actin filaments and microtubules. Experimental Cell Research, 2015, 337, 170-178.	2.6	18
92	Endoplasmic Reticulum Exit of a Secretory Glycoprotein in the Absence of Sec24p Family Proteins in Yeast. Traffic, 2005, 6, 562-574.	2.7	16
93	Rhinomonas nottbecki n. sp. (Cryptomonadales) and Molecular Phylogeny of the Family Pyrenomonadaceae. Journal of Eukaryotic Microbiology, 2014, 61, 480-492.	1.7	16
94	De novo assembly of genomes from long sequence reads reveals uncharted territories of Propionibacterium freudenreichii. BMC Genomics, 2017, 18, 790.	2.8	16
95	The microenvironment of proliferative diabetic retinopathy supports lymphatic neovascularization. Journal of Pathology, 2018, 245, 172-185.	4.5	16
96	Secretome profiling of Propionibacterium freudenreichii reveals highly variable responses even among the closely related strains. Microbial Biotechnology, 2018, 11, 510-526.	4.2	15
97	B cells rapidly target antigen and surface-derived MHCII into peripheral degradative compartments. Journal of Cell Science, 2020, 133, .	2.0	15
98	FAM92A1 is a BAR domain protein required for mitochondrial ultrastructure and function. Journal of Cell Biology, 2019, 218, 97-111.	5.2	15
99	Differences in the Aerobic Capacity of Flight Muscles between Butterfly Populations and Species with Dissimilar Flight Abilities. PLoS ONE, 2014, 9, e78069.	2.5	14
100	Combined immunodeficiency and hypoglycemia associated with mutations in hypoxia upregulated 1. Journal of Allergy and Clinical Immunology, 2017, 139, 1391-1393.e11.	2.9	14
101	RTN4B interacting protein FAM134C promotes ER membrane curvature and has a functional role in autophagy. Molecular Biology of the Cell, 2021, 32, 1158-1170.	2.1	14
102	Control of lysosomal-mediated cell death by the pH-dependent calcium channel RECS1. Science Advances, 2021, 7, eabe5469.	10.3	14
103	Computational Tools for Serial Block Electron Microscopy Reveal Plasmodesmata Distributions and Wall Environments. Plant Physiology, 2020, 184, 53-64.	4.8	12
104	Ability of minus strands and modified plus strands to act as templates in Semliki Forest virus RNA replication. Journal of General Virology, 2016, 97, 1395-1407.	2.9	12
105	Morphological Heterogeneity of the Endoplasmic Reticulum within Neurons and Its Implications in Neurodegeneration. Cells, 2021, 10, 970.	4.1	11
106	Specific subdomain localization of ER resident proteins and membrane contact sites resolved by electron microscopy. European Journal of Cell Biology, 2021, 100, 151180.	3.6	11
107	Cytoskeletal Stability in the Auditory OrganIn Vivo: RhoA Is Dispensable for Wound Healing but Essential for Hair Cell Development. ENeuro, 2017, 4, ENEURO.0149-17.2017.	1.9	9
108	Cell Volume (3D) Correlative Microscopy Facilitated by Intracellular Fluorescent Nanodiamonds as Multi-Modal Probes. Nanomaterials, 2021, 11, 14.	4.1	9

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109	Assessment of the structural complexity of diffusion MRI voxels using 3D electron microscopy in the rat brain. NeuroImage, 2021, 225, 117529.	4.2	8
110	Sensory neurons from N-syndecan-deficient mice are defective in survival. NeuroReport, 2008, 19, 1397-1400.	1.2	7
111	Effect of chronic nicotine treatment on localization of neuronal nicotinic acetylcholine receptors at cellular level. Synapse, 2006, 59, 383-393.	1.2	6
112	gACSON software for automated segmentation and morphology analyses of myelinated axons in 3D electron microscopy. Computer Methods and Programs in Biomedicine, 2022, 220, 106802.	4.7	6
113	Insight into Cell-Entry Mechanisms of CPPs by Electron Microscopy. Methods in Molecular Biology, 2011, 683, 181-193.	0.9	5
114	Cellâ€Nanoparticle Interactions at (Sub)â€“Nanometer Resolution Analyzed by Electron Microscopy and Correlative Coherent Antiâ€Stokes Raman Scattering. Biotechnology Journal, 2019, 14, 1800413.	3.5	5
115	A Na,K-ATPaseâ€“Fodrinâ€“Actin Membrane Cytoskeleton Complex is Required for Endothelial Fenestra Biogenesis. Cells, 2020, 9, 1387.	4.1	5
116	Code-Free Development and Deployment of Deep Segmentation Models for Digital Pathology. Frontiers in Medicine, 2021, 8, 816281.	2.6	4
117	Microscopic characterization reveals the diversity of EVs secreted by GFP-HAS3 expressing MCF7 cells. European Journal of Cell Biology, 2022, 101, 151235.	3.6	2
118	Role of Endoplasmic Reticulum in the Formation of Phagophores/Autophagosomes. , 2015, , 57-68.		0