Ari Helenius

List of Publications by Year
in descending order

142 papers	43,782 citations	3726 89 h-index	11047 137 g-index
145 all docs	145 docs citations	145 times ranked	33588 citing authors

#	Article	IF	Citations
1	Neuropilin-1 facilitates SARS-CoV-2 cell entry and infectivity. Science, 2020, 370, 856-860.	6.0	1,441
2	Neuropilin-1 is a host factor for SARS-CoV-2 infection. Science, 2020, 370, 861-865.	6.0	1,015
3	Standing on the Shoulders of Viruses. Annual Review of Biochemistry, 2020, 89, 21-43.	5.0	2
4	Influenza virus uses transportin 1 for vRNP debundling during cell entry. Nature Microbiology, 2019, 4, 578-586.	5.9	41
5	Virus Entry: Looking Back and Moving Forward. Journal of Molecular Biology, 2018, 430, 1853-1862.	2.0	91
6	<scp>HCMV</scp> Induces Macropinocytosis for Host Cell Entry in Fibroblasts. Traffic, 2016, 17, 351-368.	1.3	57
7	Model for the architecture of caveolae based on a flexible, net-like assembly of Cavin1 and Caveolin discs. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8069-E8078.	3.3	84
8	In Vitro Disassembly of Influenza A Virus Capsids by Gradient Centrifugation. Journal of Visualized Experiments, 2016, , e53909.	0.2	3
9	Cargo Capture and Bulk Flow in the Early Secretory Pathway. Annual Review of Cell and Developmental Biology, 2016, 32, 197-222.	4.0	162
10	PI3KÎ³ Is Critical for Dendritic Cell-Mediated CD8+ T Cell Priming and Viral Clearance during Influenza Virus Infection. PLoS Pathogens, 2016, 12, e1005508.	2.1	18
11	A SPOPL/Cullin-3 ubiquitin ligase complex regulates endocytic trafficking by targeting EPS15 at endosomes. ELife, 2016, 5, e13841.	2.8	53
12	Vaccinia Virus Infection Requires Maturation of Macropinosomes. Traffic, 2015, 16, 814-831.	1.3	44
13	Large Scale RNAi Reveals the Requirement of Nuclear Envelope Breakdown for Nuclear Import of Human Papillomaviruses. PLoS Pathogens, 2014, 10, e1004162.	2.1	135
14	The Host Nonsense-Mediated mRNA Decay Pathway Restricts Mammalian RNA Virus Replication. Cell Host and Microbe, 2014, 16, 403-411.	5.1	150
15	Endocytosis of Viruses and Bacteria. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016972-a016972.	2.3	320
16	Genome-Wide Small Interfering RNA Screens Reveal VAMP3 as a Novel Host Factor Required for Uukuniemi Virus Late Penetration. Journal of Virology, 2014, 88, 8565-8578.	1.5	48
17	Stepwise Priming by Acidic pH and a High K ⁺ Concentration Is Required for Efficient Uncoating of Influenza A Virus Cores after Penetration. Journal of Virology, 2014, 88, 13029-13046.	1.5	135
18	siRNA Screen of Early Poxvirus Genes Identifies the AAA+ ATPase D5 as the Virus Genome-Uncoating Factor. Cell Host and Microbe, 2014, 15, 103-112.	5.1	56

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19	Virus entry: What has pH got to do with it?. Nature Cell Biology, 2013, 15, 125-125.	4.6	37
20	Investigating Endocytic Pathways to the Endoplasmic Reticulum and to the Cytosol Using <scp>SNAP</scp>â€Trap. Traffic, 2013, 14, 36-46.	1.3	19
21	Virus entry at a glance. Journal of Cell Science, 2013, 126, 1289-95.	1.2	194
22	Oligomers of the ATPase EHD2 confine caveolae to the plasma membrane through association with actin. EMBO Journal, 2012, 31, 2350-2364.	3.5	140
23	Entry of Human Papillomavirus Type 16 by Actin-Dependent, Clathrin- and Lipid Raft-Independent Endocytosis. PLoS Pathogens, 2012, 8, e1002657.	2.1	238
24	Membranes, viruses, detergents, and endosomes. Molecular Biology of the Cell, 2012, 23, 4157-4159.	0.9	1
25	Singleâ€cell analysis of population context advances RNAi screening at multiple levels. Molecular Systems Biology, 2012, 8, 579.	3.2	153
26	Cullin-3 regulates late endosome maturation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 823-828.	3.3	61
27	Gulping rather than sipping: macropinocytosis as a way of virus entry. Current Opinion in Microbiology, 2012, 15, 490-499.	2.3	176
28	Late-penetrating viruses. Current Opinion in Virology, 2011, 1, 35-43.	2.6	101
29	Endosome maturation. EMBO Journal, 2011, 30, 3481-3500.	3.5	1,878
30	BAP31 and BiP are essential for dislocation of SV40 from the endoplasmic reticulum to the cytosol. Nature Cell Biology, 2011, 13, 1305-1314.	4.6	136
31	Role of Endosomes in Simian Virus 40 Entry and Infection. Journal of Virology, 2011, 85, 4198-4211.	1.5	147
32	Vaccinia extracellular virions enter cells by macropinocytosis and acid-activated membrane rupture. EMBO Journal, 2011, 30, 3647-3661.	3.5	97
33	Folding, Quality Control, and Secretion of Pancreatic Ribonuclease in Live Cells. Journal of Biological Chemistry, 2011, 286, 5813-5822.	1.6	15
34	Lipid-Mediated Endocytosis. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004721-a004721.	2.3	154
35	Histone Deacetylase 8 Is Required for Centrosome Cohesion and Influenza A Virus Entry. PLoS Pathogens, 2011, 7, e1002316.	2.1	78
36	Virus Entry by Endocytosis. Annual Review of Biochemistry, 2010, 79, 803-833.	5.0	855

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37	Biogenesis of Caveolae: Stepwise Assembly of Large Caveolin and Cavin Complexes. Traffic, 2010, 11, 361-382.	1.3	223
38	GM1 structure determines SV40-induced membrane invagination and infection. Nature Cell Biology, 2010, 12, 11-18.	4.6	535
39	Apoptotic mimicry: phosphatidylserineâ€mediated macropinocytosis of vaccinia virus. Annals of the New York Academy of Sciences, 2010, 1209, 49-55.	1.8	42
40	Vaccinia virus strains use distinct forms of macropinocytosis for host-cell entry. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9346-9351.	3.3	142
41	Caveolin-1 is ubiquitinated and targeted to intralumenal vesicles in endolysosomes for degradation. Journal of Cell Biology, 2010, 191, 615-629.	2.3	262
42	Entry of Bunyaviruses into Mammalian Cells. Cell Host and Microbe, 2010, 7, 488-499.	5.1	131
43	Virus entry by macropinocytosis. Nature Cell Biology, 2009, 11, 510-520.	4.6	710
44	High-speed nanoscopic tracking of the position and orientation of a single virus. Nature Methods, 2009, 6, 923-927.	9.0	328
45	Bulk Flow Revisited: Transport of a Soluble Protein in the Secretory Pathway. Traffic, 2009, 10, 1819-1830.	1.3	88
46	Host Cell Factors and Functions Involved in Vesicular Stomatitis Virus Entry. Journal of Virology, 2009, 83, 440-453.	1.5	177
47	High-throughput siRNA silencing screens to identify host-cell factors required for virus infection. Future Virology, 2009, 4, 517-519.	0.9	0
48	Lymphocytic choriomeningitis virus uses a novel endocytic pathway for infectious entry via late endosomes. Virology, 2008, 378, 21-33.	1.1	101
49	Vaccinia Virus Uses Macropinocytosis and Apoptotic Mimicry to Enter Host Cells. Science, 2008, 320, 531-535.	6.0	676
50	Human Papillomavirus Type 16 Entry: Retrograde Cell Surface Transport along Actin-Rich Protrusions. PLoS Pathogens, 2008, 4, e1000148.	2.1	136
51	Ari Helenius: viruses under surveillance. Journal of Cell Biology, 2008, 182, 414-415.	2.3	1
52	Simian Virus 40 Depends on ER Protein Folding and Quality Control Factors for Entry into Host Cells. Cell, 2007, 131, 516-529.	13.5	285
53	<i>N</i> -Glycolyl GM1 Ganglioside as a Receptor for Simian Virus 40. Journal of Virology, 2007, 81, 12846-12858.	1.5	150
54	Label-Free Optical Detection and Tracking of Single Virions Bound to Their Receptors in Supported Membrane Bilayers. Nano Letters, 2007, 7, 2263-2266.	4.5	67

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55	Virus Entry: Open Sesame. Cell, 2006, 124, 729-740.	13.5	1,016
56	Minor folding defects trigger local modification of glycoproteins by the ER folding sensor GT. EMBO Journal, 2005, 24, 1730-1738.	3.5	85
57	Folding and dimerization of hepatitis C virus E1 and E2 glycoproteins in stably transfected CHO cells. Virology, 2005, 332, 438-453.	1.1	74
58	Rab7 Associates with Early Endosomes to Mediate Sorting and Transport of Semliki Forest Virus to Late Endosomes. PLoS Biology, 2005, 3, e233.	2.6	368
59	Single-particle tracking of murine polyoma virus-like particles on live cells and artificial membranes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15110-15115.	3.3	235
60	Clathrin- and caveolin-1â€"independent endocytosis. Journal of Cell Biology, 2005, 168, 477-488.	2.3	399
61	Assembly and trafficking of caveolar domains in the cell. Journal of Cell Biology, 2005, 170, 769-779.	2.3	228
62	More Than One Glycan Is Needed for ER Glucosidase II to Allow Entry of Glycoproteins into the Calnexin/Calreticulin Cycle. Molecular Cell, 2005, 19, 183-195.	4.5	128
63	Echovirus 1 Endocytosis into Caveosomes Requires Lipid Rafts, Dynamin II, and Signaling Events. Molecular Biology of the Cell, 2004, 15, 4911-4925.	0.9	141
64	How Viruses Enter Animal Cells. Science, 2004, 304, 237-242.	6.0	671
65	Mutational Analysis Provides Molecular Insight into the Carbohydrate-Binding Region of Calreticulin:Â Pivotal Roles of Tyrosine-109 and Aspartate-135 in Carbohydrate Recognitionâ€. Biochemistry, 2004, 43, 97-106.	1.2	75
66	Roles of N-Linked Glycans in the Endoplasmic Reticulum. Annual Review of Biochemistry, 2004, 73, 1019-1049.	5.0	1,789
67	Caveolin-Stabilized Membrane Domains as Multifunctional Transport and Sorting Devices in Endocytic Membrane Traffic. Cell, 2004, 118, 767-780.	13.5	470
68	Contrasting Functions of Calreticulin and Calnexin in Glycoprotein Folding and ER Quality Control. Molecular Cell, 2004, 13, 125-135.	4.5	196
69	Insider information: what viruses tell us about endocytosis. Current Opinion in Cell Biology, 2003, 15, 414-422.	2.6	312
70	Quality control in the endoplasmic reticulum. Nature Reviews Molecular Cell Biology, 2003, 4, 181-191.	16.1	1,866
71	Ganglioside-dependent cell attachment and endocytosis of murine polyomavirus-like particles. FEBS Letters, 2003, 555, 199-203.	1.3	67
72	A Chaperone System for Glycoprotein Folding: The Calnexin/Calreticulin Cycle. Molecular Biology Intelligence Unit, 2003, , 19-29.	0.2	2

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73	Nuclear import of hepatitis B virus capsids and release of the viral genome. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9849-9854.	3.3	246
74	Intracellular Assembly and Secretion of Recombinant Subviral Particles from Tick-Borne Encephalitis Virus. Journal of Virology, 2003, 77, 4370-4382.	1.5	104
75	Interactions of Substrate with Calreticulin, an Endoplasmic Reticulum Chaperone. Journal of Biological Chemistry, 2003, 278, 6194-6200.	1.6	73
76	Multiple Endoplasmic Reticulum-associated Pathways Degrade Mutant Yeast Carboxypeptidase Y in Mammalian Cells. Journal of Biological Chemistry, 2003, 278, 46895-46905.	1.6	40
77	TROSY-NMR reveals interaction between ERp57 and the tip of the calreticulin P-domain. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1954-1959.	3.3	269
78	Local Actin Polymerization and Dynamin Recruitment in SV40-Induced Internalization of Caveolae. Science, 2002, 296, 535-539.	6.0	648
79	Protein Folding during Cotranslational Translocation in the Endoplasmic Reticulum. Molecular Cell, 2002, 10, 769-778.	4.5	118
80	Endocytosis Via Caveolae. Traffic, 2002, 3, 311-320.	1.3	623
81	The Transitional ER Defines a Boundary for Quality Control in the Secretion of tsO45 VSV Glycoprotein. Traffic, 2002, 3, 833-849.	1.3	82
82	Three-dimensional structure topology of the calreticulin P-domain based on NMR assignment. FEBS Letters, 2001, 488, 69-73.	1.3	41
83	Quaternary and Domain Structure of Glycoprotein Processing Glucosidase IIâ€. Biochemistry, 2001, 40, 10717-10722.	1.2	82
84	Caveolar endocytosis of simian virus 40 reveals a new two-step vesicular-transport pathway to the ER. Nature Cell Biology, 2001, 3, 473-483.	4.6	1,158
85	ER quality control: towards an understanding at the molecular level. Current Opinion in Cell Biology, 2001, 13, 431-437.	2.6	369
86	Folding of Hepatitis C Virus E1 Glycoprotein in a Cell-Free System. Journal of Virology, 2001, 75, 11205-11217.	1.5	41
87	Quality control in the secretory assembly line. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 147-150.	1.8	52
88	Recognition of local glycoprotein misfolding by the ER folding sensor UDP-glucose:glycoprotein glucosyltransferase. , 2000, 7, 278-280.		136
89	Herpes Simplex Virus Type 1 Entry into Host Cells: Reconstitution of Capsid Binding and Uncoating at the Nuclear Pore Complex In Vitro. Molecular and Cellular Biology, 2000, 20, 4922-4931.	1.1	237
90	Viral Entry into the Nucleus. Annual Review of Cell and Developmental Biology, 2000, 16, 627-651.	4.0	210

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91	Conformational Requirements for Glycoprotein Reglucosylation in the Endoplasmic Reticulum. Journal of Cell Biology, 2000, 148, 1123-1130.	2.3	94
92	Expression of Antibody Interferes with Disulfide Bond Formation and Intracellular Transport of Antigen in the Secretory Pathway. Journal of Biological Chemistry, 1999, 274, 14495-14499.	1.6	4
93	Trimming and Readdition of Glucose to N-Linked Oligosaccharides Determines Calnexin Association of a Substrate Glycoprotein in Living Cells. Journal of Biological Chemistry, 1999, 274, 7537-7544.	1.6	72
94	Glycoproteins form mixed disulphides with oxidoreductases during folding in living cells. Nature, 1999, 402, 90-93.	13.7	294
95	Interaction of Newly Synthesized Apolipoprotein B with Calnexin and Calreticulin Requires Glucose Trimming in the Endoplasmic Reticulum. Bioscience Reports, 1999, 19, 189-196.	1.1	13
96	Setting the Standards: Quality Control in the Secretory Pathway. Science, 1999, 286, 1882-1888.	6.0	1,142
97	Phosphorylation-dependent Binding of Hepatitis B Virus Core Particles to the Nuclear Pore Complex. Journal of Cell Biology, 1999, 145, 45-55.	2.3	221
98	Nuclear Import and Export of Viruses and Virus Genomes. Virology, 1998, 246, 1-23.	1.1	188
99	Interactions between Newly Synthesized Glycoproteins, Calnexin and a Network of Resident Chaperones in the Endoplasmic Reticulum. Journal of Cell Biology, 1997, 136, 555-565.	2.3	221
100	Microtubule-mediated Transport of Incoming Herpes Simplex Virus 1 Capsids to the Nucleus. Journal of Cell Biology, 1997, 136, 1007-1021.	2.3	619
101	Quality Control in the Secretory Pathway: The Role of Calreticulin, Calnexin and BiP in the Retention of Glycoproteins with C-Terminal Truncations. Molecular Biology of the Cell, 1997, 8, 1943-1954.	0.9	187
102	The Number and Location of Glycans on Influenza Hemagglutinin Determine Folding and Association with Calnexin and Calreticulin. Journal of Cell Biology, 1997, 139, 613-623.	2.3	250
103	The role of the nuclear pore complex in adenovirus DNA entry. EMBO Journal, 1997, 16, 5998-6007.	3.5	269
104	Multiple Mechanisms for the Inhibition of Entry and Uncoating of Superinfecting Semliki Forest Virus. Virology, 1997, 231, 59-71.	1.1	68
105	Glycan-dependent and -independent Association of Vesicular Stomatitis Virus G Protein with Calnexin. Journal of Biological Chemistry, 1996, 271, 14280-14284.	1.6	144
106	Quality control in the secretory pathway. Current Opinion in Cell Biology, 1995, 7, 523-529.	2.6	653
107	Glucose trimming and reglucosylation determine glycoprotein association with calnexin in the endoplasmic reticulum. Cell, 1995, 81, 425-433.	13.5	556
108	Alphavirus and flavivirus glycoproteins: Structures and functions. Cell, 1995, 81, 651-653.	13.5	40

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109	Mechanisms of virus uncoating. Trends in Microbiology, 1994, 2, 52-56.	3.5	114
110	Stepwise dismantling of adenovirus 2 during entry into cells. Cell, 1993, 75, 477-486.	13.5	807
111	Protein Folding in the Endoplasmic Reticulum. , 1993, , 125-136.		4
112	Unpacking the incoming influenza virus. Cell, 1992, 69, 577-578.	13.5	318
113	Role of ATP and disulphide bonds during protein folding in the endoplasmic reticulum. Nature, 1992, 356, 260-262.	13.7	303
114	The endoplasmic reticulum as a protein-folding compartment. Trends in Cell Biology, 1992, 2, 227-231.	3.6	306
115	Virus Entry into Animal Cells. Advances in Virus Research, 1989, 36, 107-151.	0.9	643
116	Protein Oligomerization in the Endoplasmic Reticulum. Annual Review of Cell Biology, 1989, 5, 277-307.	26.0	1,022
117	Spikeâ€"nucleocapsid interaction in Semliki Forest virus reconstructed using network antibodies. Nature, 1988, 336, 36-42.	13.7	101
118	Folding, trimerization, and transport are sequential events in the biogenesis of influenza virus hemagglutinin. Cell, 1988, 53, 197-209.	13.5	313
119	The Control of Membrane Traffic on the Endocytic Pathway. Current Topics in Membranes and Transport, 1987, , 255-288.	0.6	25
120	Viruses as Tools in Drug Delivery. Annals of the New York Academy of Sciences, 1987, 507, 1-6.	1.8	10
121	Inhibition of endocytosis by anti-clathrin antibodies. Cell, 1987, 50, 453-463.	13.5	140
122	Acidification of the Endocytic and Exocytic Pathways. Annual Review of Biochemistry, 1986, 55, 663-700.	5.0	1,957
123	Entry of Alphaviruses. , 1986, , 91-119.		41
124	Semliki forest virus entry and the endocytic pathway. Biochemical Society Transactions, 1984, 12, 981-983.	1.6	25
125	Endosomes. Trends in Biochemical Sciences, 1983, 8, 245-250.	3.7	481
126	Penetration of semliki forest virus from acidic prelysosomal vacuoles. Cell, 1983, 32, 931-940.	13.5	426

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127	Membrane fusion proteins of enveloped animal viruses. Quarterly Reviews of Biophysics, 1983, 16, 151-195.	2.4	711
128	[20] Binding, endocytosis, and degradation of enveloped animal viruses. Methods in Enzymology, 1983, 98, 260-266.	0.4	12
129	Pathway of vesicular stomatitis virus entry leading to infection. Journal of Molecular Biology, 1982, 156, 609-631.	2.0	388
130	Haemagglutinin of influenza virus expressed from a cloned gene promotes membrane fusion. Nature, 1982, 300, 658-659.	13.7	254
131	Endocytosis of Enveloped Animal Viruses. Novartis Foundation Symposium, 1982, , 59-76.	1.2	30
132	On the entry of semliki forest virus into BHK-21 cells. Journal of Cell Biology, 1980, 84, 404-420.	2.3	829
133	Adsorptive endocytosis of Semliki Forest virus. Journal of Molecular Biology, 1980, 142, 439-454.	2.0	383
134	The entry of viruses into animal cells. Trends in Biochemical Sciences, 1980, 5, 104-106.	3.7	106
135	Alphavirus Proteins. , 1980, , 317-333.		9
136	Binding of Semliki Forest Virus and Its Spike Glycoproteins to Cells. FEBS Journal, 1979, 97, 213-220.	0.2	81
137	[63] Properties of detergents. Methods in Enzymology, 1979, 56, 734-749.	0.4	627
138	Solubilization of the semliki forest virus membrane with sodium deoxycholate. Biochimica Et Biophysica Acta - Biomembranes, 1976, 436, 319-334.	1.4	67
139	Solubilization of membranes by detergents. BBA - Biomembranes, 1975, 415, 29-79.	7.9	2,762
140	Solubilization of the membrane proteins from Semliki Forest virus with Triton X100. Journal of Molecular Biology, 1973, 80, 119-133.	2.0	203
141	Stepwise dissociation of the semliki forest virus membrane with triton-X-100. Biochimica Et Biophysica Acta - Biomembranes, 1973, 307, 287-300.	1.4	132
142	Caveolar endocytosis of simian virus 40 reveals a new two-step vesicular-transport pathway to the ER. , 0, .		1