Urs F Greber

List of Publications by Year
in descending order

142 papers	11,727 citations	24978 57 h-index	30848 102 g-index
156 all docs	156 docs citations	156 times ranked	13648 citing authors

#	Article	IF	Citations
1	Neuropilin-1 is a host factor for SARS-CoV-2 infection. Science, 2020, 370, 861-865.	6.0	1,015
2	Stepwise dismantling of adenovirus 2 during entry into cells. Cell, 1993, 75, 477-486.	13.5	807
3	Adenovirus triggers macropinocytosis and endosomal leakage together with its clathrin-mediated uptake. Journal of Cell Biology, 2002, 158, 1119-1131.	2.3	425
4	Microtubule-dependent Plus- and Minus Endâ€"directed Motilities Are Competing Processes for Nuclear Targeting of Adenovirus. Journal of Cell Biology, 1999, 144, 657-672.	2.3	413
5	A Superhighway to Virus Infection. Cell, 2006, 124, 741-754.	13.5	351
6	Import of adenovirus DNA involves the nuclear pore complex receptor CAN/Nup214 and histone H1. Nature Cell Biology, 2001, 3, 1092-1100.	4.6	274
7	The role of the nuclear pore complex in adenovirus DNA entry. EMBO Journal, 1997, 16, 5998-6007.	3.5	269
8	The Human Membrane Cofactor CD46 Is a Receptor for Species B Adenovirus Serotype 3. Journal of Virology, 2004, 78, 4454-4462.	1.5	247
9	Adenovirus endocytosis. Journal of Gene Medicine, 2004, 6, S152-S163.	1.4	217
10	Adenovirus-activated PKA and p38/MAPK pathways boost microtubule-mediated nuclear targeting of virus. EMBO Journal, 2001, 20, 1310-1319.	3.5	210
11	Niclosamide Is a Proton Carrier and Targets Acidic Endosomes with Broad Antiviral Effects. PLoS Pathogens, 2012, 8, e1002976.	2.1	200
12	Depletion of calcium from the lumen of endoplasmic reticulum reversibly inhibits passive diffusion and signal-mediated transport into the nucleus.. Journal of Cell Biology, 1995, 128, 5-14.	2.3	198
13	Enhanced microtubule-dependent trafficking and p53 nuclear accumulation by suppression of microtubule dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10855-10860.	3.3	192
14	Rhinovirus Uses a Phosphatidylinositol 4-Phosphate/Cholesterol Counter-Current for the Formation of Replication Compartments at the ER-Golgi Interface. Cell Host and Microbe, 2014, 16, 677-690.	5.1	189
15	Innate Immunity to Adenovirus. Human Gene Therapy, 2014, 25, 265-284.	1.4	185
16	Kinesin-1-Mediated Capsid Disassembly and Disruption of the Nuclear Pore Complex Promote Virus Infection. Cell Host and Microbe, 2011, 10, 210-223.	5.1	174
17	Subversion of CtBP1-controlled macropinocytosis by human adenovirus serotype 3. EMBO Journal, 2008, 27, 956-969.	3.5	172
18	Using the Whole-Genome Sequence To Characterize and Name Human Adenoviruses. Journal of Virology, 2011, 85, 5701-5702.	1.5	163

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19	The First Step of Adenovirus Type 2 Disassembly Occurs at the Cell Surface, Independently of Endocytosis and Escape to the Cytosol. Journal of Virology, 2000, 74, 7085-7095.	1.5	157
20	Drifting Motions of the Adenovirus Receptor CAR and Immobile Integrins Initiate Virus Uncoating and Membrane Lytic Protein Exposure. Cell Host and Microbe, 2011, 10, 105-117.	5.1	157
21	Adenovirus endocytosis. Journal of Gene Medicine, 2003, 5, 451-462.	1.4	155
22	Singleâ€cell analysis of population context advances RNAi screening at multiple levels. Molecular Systems Biology, 2012, 8, 579.	3.2	153
23	Intact Microtubules Support Adenovirus and Herpes Simplex Virus Infections. Journal of Virology, 2002, 76, 9962-9971.	1.5	143
24	Tracking Viral Genomes in Host Cells at Single-Molecule Resolution. Cell Host and Microbe, 2013, 14, 468-480.	5.1	141
25	Virus Movements on the Plasma Membrane Support Infection and Transmission between Cells. PLoS Pathogens, 2009, 5, e1000621.	2.1	128
26	Nucleo-cytoplasmic Trafficking of Metal-regulatory Transcription Factor 1 Is Regulated by Diverse Stress Signals. Journal of Biological Chemistry, 2001, 276, 25487-25495.	1.6	119
27	Infectious Adenovirus Type 2 Transport Through Early but not Late Endosomes. Traffic, 2008, 9, 2265-2278.	1.3	117
28	Flamingo Regulates R8 Axon-Axon and Axon-Target Interactions in the Drosophila Visual System. Current Biology, 2003, 13, 828-832.	1.8	116
29	Mechanisms of virus uncoating. Trends in Microbiology, 1994, 2, 52-56.	3.5	114
30	Co-option of Membrane Wounding Enables Virus Penetration into Cells. Cell Host and Microbe, 2015, 18, 75-85.	5.1	114
31	Adenovirus Entry: From Infection to Immunity. Annual Review of Virology, 2019, 6, 177-197.	3.0	113
32	Uncoating of non-enveloped viruses. Current Opinion in Virology, 2013, 3, 27-33.	2.6	105
33	Principles of Virus Uncoating: Cues and the Snooker Ball. Traffic, 2016, 17, 569-592.	1.3	105
34	Macropinocytotic Uptake and Infection of Human Epithelial Cells with Species B2 Adenovirus Type 35. Journal of Virology, 2010, 84, 5336-5350.	1.5	103
35	MxB is an interferon-induced restriction factor of human herpesviruses. Nature Communications, 2018, 9, 1980.	5.8	102
36	Nuclear protein import is inhibited by an antibody to a lumenal epitope of a nuclear pore complex glycoprotein.. Journal of Cell Biology, 1992, 116, 15-30.	2.3	100

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37	Virus and Host Mechanics Support Membrane Penetration and Cell Entry. Journal of Virology, 2016, 90, 3802-3805.	1.5	93
38	A novel supervised trajectory segmentation algorithm identifies distinct types of human adenovirus motion in host cells. Journal of Structural Biology, 2007, 159, 347-358.	1.3	92
39	Key Role of Splenic Myeloid DCs in the IFN-Î±Î² Response to Adenoviruses In Vivo. PLoS Pathogens, 2008, 4, e1000208.	2.1	89
40	Virus interactions with endocytic pathways in macrophages and dendritic cells. Trends in Microbiology, 2013, 21, 380-388.	3.5	88
41	Chemotactic antiviral cytokines promote infectious apical entry of human adenovirus into polarized epithelial cells. Nature Communications, 2011, 2, 391.	5.8	87
42	Imaging, Tracking and Computational Analyses of Virus Entry and Egress with the Cytoskeleton. Viruses, 2018, 10, 166.	1.5	87
43	Cholesterol Is Required for Endocytosis and Endosomal Escape of Adenovirus Type 2. Journal of Virology, 2004, 78, 3089-3098.	1.5	86
44	Nuclear Targeting of Adenovirus Type 2 Requires CRM1-mediated Nuclear Export. Molecular Biology of the Cell, 2005, 16, 2999-3009.	0.9	85
45	Nuclear Import of Viral DNA Genomes. Traffic, 2003, 4, 136-143.	1.3	81
46	Adenovirus signalling in entry. Cellular Microbiology, 2013, 15, 53-62.	1.1	78
47	Functional and Selective Targeting of Adenovirus to High-Affinity FcÎ³ Receptor I-Positive Cells by Using a Bispecific Hybrid Adapter. Journal of Virology, 2001, 75, 480-489.	1.5	76
48	Stepwise Loss of Fluorescent Core Protein V from Human Adenovirus during Entry into Cells. Journal of Virology, 2011, 85, 481-496.	1.5	76
49	Cell spreading on quartz crystal microbalance elicits positive frequency shifts indicative of viscosity changes. Analytical and Bioanalytical Chemistry, 2003, 377, 578-586.	1.9	73
50	iTRAQ-Based and Label-Free Proteomics Approaches for Studies of Human Adenovirus Infections. International Journal of Proteomics, 2013, 2013, 1-16.	2.0	73
51	Virus assembly and disassembly: the adenovirus cysteine protease as a trigger factor. , 1998, 8, 213-222.		70
52	Avidity Binding of Human Adenovirus Serotypes 3 and 7 to the Membrane Cofactor CD46 Triggers Infection. Journal of Virology, 2012, 86, 1623-1637.	1.5	70
53	RESPONSE OF THE ITALIAN AGILE FROG (RANA LATASTEI) TO A RANAVIRUS, FROG VIRUS 3: A MODEL FOR VIRAL EMERGENCE IN NAÃVE POPULATIONS. Journal of Wildlife Diseases, 2004, 40, 660-669.	0.3	68
54	Fluorescence Tracking of Genome Release during Mechanical Unpacking of Single Viruses. ACS Nano, 2015, 9, 10571-10579.	7.3	67

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55	Adenoviral vector with shield and adapter increases tumor specificity and escapes liver and immune control. Nature Communications, 2018, 9, 450.	5.8	65
56	Species B adenovirus serotypes 3, 7, 11 and 35 share similar binding sites on the membrane cofactor protein CD46 receptor. Journal of General Virology, 2007, 88, 2925-2934.	1.3	62
57	A Direct and Versatile Assay Measuring Membrane Penetration of Adenovirus in Single Cells. Journal of Virology, 2013, 87, 12367-12379.	1.5	62
58	Unhampered Prion Neuroinvasion despite Impaired Fast Axonal Transport in Transgenic Mice Overexpressing Four-Repeat Tau. Journal of Neuroscience, 2002, 22, 7471-7477.	1.7	61
59	Nuclear targeting of SV40 and adenovirus. Trends in Cell Biology, 1996, 6, 189-195.	3.6	60
60	Cell-Free Transmission of Human Adenovirus by Passive Mass Transfer in Cell Culture Simulated in a Computer Model. Journal of Virology, 2012, 86, 10123-10137.	1.5	60
61	A combined proteomic and genetic analysis identifies a role for the lipid desaturase Desat1 in starvation-induced autophagy in Drosophila. Autophagy, 2009, 5, 980-990.	4.3	59
62	Lung macrophage scavenger receptor SR-A6 (MARCO) is an adenovirus type-specific virus entry receptor. PLoS Pathogens, 2018, 14, e1006914.	2.1	56
63	Key Role of the Scavenger Receptor MARCO in Mediating Adenovirus Infection and Subsequent Innate Responses of Macrophages. MBio, 2017, 8, .	1.8	55
64	A SPOPL/Cullin-3 ubiquitin ligase complex regulates endocytic trafficking by targeting EPS15 at endosomes. ELife, 2016, 5, e13841.	2.8	53
65	The Î±vÎ²5 integrin of hematopoietic and nonhematopoietic cells is a transduction receptor of RGD-4C fiber-modified adenoviruses. Gene Therapy, 2003, 10, 1643-1653.	2.3	52
66	A Stochastic Model for Microtubule Motors Describes the In Vivo Cytoplasmic Transport of Human Adenovirus. PLoS Computational Biology, 2009, 5, e1000623.	1.5	51
67	The adenovirus major core protein VII is dispensable for virion assembly but is essential for lytic infection. PLoS Pathogens, 2017, 13, e1006455.	2.1	51
68	Genetic reconstitution of the human Adenovirus type 2 temperature-sensitive 1 mutant defective in endosomal escape. Virology Journal, 2009, 6, 174.	1.4	50
69	The nucleotide sequence and a first generation gene transfer vector of species B human adenovirus serotype 3. Virology, 2005, 343, 283-298.	1.1	47
70	The Distal Short Consensus Repeats 1 and 2 of the Membrane Cofactor Protein CD46 and Their Distance from the Cell Membrane Determine Productive Entry of Species B Adenovirus Serotype 35. Journal of Virology, 2005, 79, 10013-10022.	1.5	46
71	The Dynactin Complex Enhances the Speed of Microtubule-Dependent Motions of Adenovirus Both Towards and Away from the Nucleus. Viruses, 2011, 3, 233-253.	1.5	44
72	Concepts in Light Microscopy of Viruses. Viruses, 2018, 10, 202.	1.5	44

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73	Plaque2.0â€"A High-Throughput Analysis Framework to Score Virus-Cell Transmission and Clonal Cell Expansion. PLoS ONE, 2015, 10, e0138760.	1.1	44
74	Early Steps of Clathrin-Mediated Endocytosis Involved in Phagosomal Escape of FcÎ³ Receptor-Targeted Adenovirus. Journal of Virology, 2005, 79, 2604-2613.	1.5	40
75	Rhinovirus 3C protease suppresses apoptosis and triggers caspase-independent cell death. Cell Death and Disease, 2018, 9, 272.	2.7	39
76	Simultaneous analysis of large-scale RNAi screens for pathogen entry. BMC Genomics, 2014, 15, 1162.	1.2	38
77	Misdelivery at the Nuclear Pore Complexâ€"Stopping a Virus Dead in Its Tracks. Cells, 2015, 4, 277-296.	1.8	38
78	The endoplasmic reticulum unfolded protein response â€" homeostasis, cell death and evolution in virus infections. FEMS Microbiology Reviews, 2021, 45, .	3.9	38
79	The E3ÂUbiquitin Ligase Mind Bomb 1 Controls Adenovirus Genome Release at the Nuclear Pore Complex. Cell Reports, 2019, 29, 3785-3795.e8.	2.9	37
80	The nuclear export factor CRM1 controls juxta-nuclear microtubule-dependent virus transport. Journal of Cell Science, 2017, 130, 2185-2195.	1.2	34
81	An RNA replication-center assay for high content image-based quantifications of human rhinovirus and coxsackievirus infections. Virology Journal, 2010, 7, 264.	1.4	33
82	Viral mechanisms for docking and delivering at nuclear pore complexes. Seminars in Cell and Developmental Biology, 2017, 68, 59-71.	2.3	33
83	Acid ceramidase of macrophages traps herpes simplex virus in multivesicular bodies and protects from severe disease. Nature Communications, 2020, 11, 1338.	5.8	32
84	The UPR sensor IRE1Î± and the adenovirus E3-19K glycoprotein sustain persistent and lytic infections. Nature Communications, 2020, 11, 1997.	5.8	32
85	Adenovirus-triggered innate signalling pathways. European Journal of Microbiology and Immunology, 2011, 1, 279-288.	1.5	31
86	The HSV-1 Transcription Factor ICP4 Confers Liquid-Like Properties to Viral Replication Compartments. International Journal of Molecular Sciences, 2021, 22, 4447.	1.8	31
87	Inhibition of Poxvirus Gene Expression and Genome Replication by Bisbenzimide Derivatives. Journal of Virology, 2017, 91, .	1.5	30
88	Chemical Induction of Unfolded Protein Response Enhances Cancer Cell Killing through Lytic Virus Infection. Journal of Virology, 2014, 88, 13086-13098.	1.5	29
89	Adenoviruses â€" Infection, pathogenesis and therapy. FEBS Letters, 2020, 594, 1818-1827.	1.3	28
90	Non-Classical Export of an Adenovirus Structural Protein. Traffic, 2003, 4, 390-402.	1.3	27

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91	A novel attenuated replication-competent adenovirus for melanoma therapy. Gene Therapy, 2003, 10, 530-539.	2.3	26
92	Dynamic competition for hexon binding between core protein VII and lytic protein VI promotes adenovirus maturation and entry. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13699-13707.	3.3	26
93	Virus Infection Variability by Single-Cell Profiling. Viruses, 2021, 13, 1568.	1.5	26
94	How Cells Tune Viral Mechanicsâ€"Insights from Biophysical Measurements of Influenza Virus. Biophysical Journal, 2014, 106, 2317-2321.	0.2	25
95	Adenovirus â€" a blueprint for gene delivery. Current Opinion in Virology, 2021, 48, 49-56.	2.6	25
96	DNA-tumor virus entryâ€"From plasma membrane to the nucleus. Seminars in Cell and Developmental Biology, 2009, 20, 631-642.	2.3	24
97	The Adenovirus Death Protein â€" a small membrane protein controls cell lysis and disease. FEBS Letters, 2020, 594, 1861-1878.	1.3	24
98	Junctional Gating: The Achilles' Heel of Epithelial Cells in Pathogen Infection. Cell Host and Microbe, 2007, 2, 143-146.	5.1	21
99	Genomic and phylogenetic analyses of murine adenovirus 2. Virus Research, 2011, 160, 128-135.	1.1	21
100	iMATCH: an integrated modular assembly system for therapeutic combination high-capacity adenovirus gene therapy. Molecular Therapy - Methods and Clinical Development, 2021, 20, 572-586.	1.8	21
101	Galactosyltransferase-dependent sialylation of complex and endo-N-acetylglucosaminidase H-treated coreN-glycans in vitro. FEBS Letters, 1986, 203, 64-68.	1.3	20
102	Identification of broad anti-coronavirus chemical agents for repurposing against SARS-CoV-2 and variants of concern. Current Research in Virological Science, 2022, 3, 100019.	1.8	20
103	Viral trafficking violations in axons: The herpesvirus case. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5639-5640.	3.3	19
104	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
105	Simultaneous measurement of the maximum oscillation amplitude and the transient decay time constant of the QCM reveals stiffness changes of the adlayer. Analytical and Bioanalytical Chemistry, 2003, 377, 570-577.	1.9	17
106	NEMix: Single-cell Nested Effects Models for Probabilistic Pathway Stimulation. PLoS Computational Biology, 2015, 11, e1004078.	1.5	17
107	Melanoma cultures show different susceptibility towards E1A-, E1B-19â€‰kDa- and fiber-modified replication-competent adenoviruses. Gene Therapy, 2006, 13, 893-905.	2.3	16
108	A Single Point Mutation in the Rhinovirus 2B Protein Reduces the Requirement for Phosphatidylinositol 4-Kinase Class III Beta in Viral Replication. Journal of Virology, 2018, 92, .	1.5	16

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109	The FDA-Approved Drug Nelfinavir Inhibits Lytic Cell-Free but Not Cell-Associated Nonlytic Transmission of Human Adenovirus. Antimicrobial Agents and Chemotherapy, 2020, 64, .	1.4	16
110	Regulation of a Viral Proteinase by a Peptide and DNA in One-dimensional Space. Journal of Biological Chemistry, 2013, 288, 2059-2067.	1.6	15
111	Label-Free Digital Holo-tomographic Microscopy Reveals Virus-Induced Cytopathic Effects in Live Cells. MSphere, 2018, 3, .	1.3	15
112	Single entity resolution valving of nanoscopic species in liquids. Nature Nanotechnology, 2018, 13, 578-582.	15.6	15
113	Cell-to-cell and genome-to-genome variability of adenovirus transcription tuned by the cell cycle. Journal of Cell Science, 2021, 134, .	1.2	14
114	Microscopy deep learning predicts virus infections and reveals mechanics of lytic-infected cells. IScience, 2021, 24, 102543.	1.9	14
115	Cell Cycle-Dependent Kinase Cdk9 Is a Postexposure Drug Target against Human Adenoviruses. ACS Infectious Diseases, 2017, 3, 398-405.	1.8	13
116	Double-stranded RNA bending by AU-tract sequences. Nucleic Acids Research, 2020, 48, 12917-12928.	6.5	12
117	Chemical Evolution of Rhinovirus Identifies Capsid-Destabilizing Mutations Driving Low-pH-Independent Genome Uncoating. Journal of Virology, 2022, 96, JVI0106021.	1.5	12
118	Intracellular Virus Trafficking Reveals Physiological Characteristics of the Cytoskeleton. Physiology, 2000, 15, 67-71.	1.6	11
119	Biology of Adenovirus Cell Entry. , 2016, , 27-58.		11
120	A high-content image-based drug screen of clinical compounds against cell transmission of adenovirus. Scientific Data, 2020, 7, 265.	2.4	11
121	Endosomophagy clears disrupted early endosomes but not virus particles during virus entry into cells . Matters, 0, , .	1.0	11
122	Adenovirus entry: Stability, uncoating, and nuclear import. Molecular Microbiology, 2022, 118, 309-320.	1.2	11
123	Adenovirus Entry into Cells: A Quantitative Fluorescence Microscopy Approach. , 1999, , 217-230.		10
124	Redox rescues virus from ER trap. Nature Cell Biology, 2008, 10, 9-11.	4.6	10
125	Proper migration and axon outgrowth of zebrafish cranial motoneuron subpopulations require the cell adhesion molecule MDGA2A. Biology Open, 2015, 4, 146-154.	0.6	10
126	Editorial: An expanded view of viruses. FEMS Microbiology Reviews, 2017, 41, 1-4.	3.9	10

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127	Cell Cycle-Dependent Expression of Adeno-Associated Virus 2 (AAV2) Rep in Coinfections with Herpes Simplex Virus 1 (HSV-1) Gives Rise to a Mosaic of Cells Replicating either AAV2 or HSV-1. Journal of Virology, 2017, 91, .	1.5	10
128	A viral ubiquitination switch attenuates innate immunity and triggers nuclear import of virion DNA and infection. Science Advances, 2021, 7, eabl7150.	4.7	10
129	Infectio: a Generic Framework for Computational Simulation of Virus Transmission between Cells. MSphere, 2016, 1, .	1.3	9
130	Small-size recombinant adenoviral hexon protein fragments for the production of virus-type specific antibodies. Virology Journal, 2017, 14, 158.	1.4	8
131	The RGD-binding integrins Î±vÎ²6 and Î±vÎ²8 are receptors for mouse adenovirus-1 and -3 infection. PLoS Pathogens, 2021, 17, e1010083.	2.1	8
132	Growth-restricting effects of siRNA transfections: a largely deterministic combination of off-target binding and hybridization-independent competition. Nucleic Acids Research, 2018, 46, 9309-9320.	6.5	7
133	How Computational Models Enable Mechanistic Insights into Virus Infection. Methods in Molecular Biology, 2018, 1836, 609-631.	0.4	7
134	Analysis of adenovirus trans-complementation-mediated gene expression controlled by melanoma-specific TETP promoter in vitro. Virology Journal, 2010, 7, 175.	1.4	6
135	Editorial: Physical Virology and the Nature of Virus Infections. Advances in Experimental Medicine and Biology, 2019, 1215, 1-11.	0.8	5
136	Virus assembly and disassembly: the adenovirus cysteine protease as a trigger factor. , 1998, 8, 213.		5
137	Two years into COVIDâ€19 â€" Lessons in SARSâ€CoVâ€2 and a perspective from papers in FEBS Letters. FEBS Letters, 2021, 595, 2847.	1.3	5
138	Effect of the glucosidase inhibitor 1-deoxynojirimycin on protein secretion from Saccharomyces cerevisiae. Enzyme and Microbial Technology, 1988, 10, 246-251.	1.6	4
139	Too smart to failâ€"how viruses exploit the complexity of host cells during entry. Current Opinion in Virology, 2011, 1, 3-5.	2.6	4
140	Purification of endo-N-acetyl-Î²-d-glucosaminidase H by substrate-affinity chromatography. Carbohydrate Research, 1989, 189, 289-299.	1.1	2
141	On-chip transporting arresting and characterizing individual nano-objects in biological ionic liquids. Science Advances, 2021, 7, .	4.7	2
142	Sequence-Specific Features of Short Double-Strand, Blunt-End RNAs Have RIG-I- and Type 1 Interferon-Dependent or -Independent Anti-Viral Effects. Viruses, 2022, 14, 1407.	1.5	1