Barbara MÃ¼ller

List of Publications by Year
in descending order

74 papers	4,562 citations	117625 34 h-index	114465 63 g-index
85 all docs	85 docs citations	85 times ranked	4567 citing authors

#	Article	IF	Citations
1	Persistent Symptoms in Adult Patients 1 Year After Coronavirus Disease 2019 (COVID-19): A Prospective Cohort Study. Clinical Infectious Diseases, 2022, 74, 1191-1198.	5.8	330
2	Structure of the immature HIV-1 capsid in intact virus particles at 8.8ÂÅ resolution. Nature, 2015, 517, 505-508.	27.8	277
3	Maturation-Dependent HIV-1 Surface Protein Redistribution Revealed by Fluorescence Nanoscopy. Science, 2012, 338, 524-528.	12.6	245
4	Three-Dimensional Analysis of Budding Sites and Released Virus Suggests a Revised Model for HIV-1 Morphogenesis. Cell Host and Microbe, 2008, 4, 592-599.	11.0	208
5	Construction and Characterization of a Fluorescently Labeled Infectious Human Immunodeficiency Virus Type 1 Derivative. Journal of Virology, 2004, 78, 10803-10813.	3.4	201
6	Cone-shaped HIV-1 capsids are transported through intact nuclear pores. Cell, 2021, 184, 1032-1046.e18.	28.9	179
7	Dynamics of HIV-1 Assembly and Release. PLoS Pathogens, 2009, 5, e1000652.	4.7	178
8	Live-cell visualization of dynamics of HIV budding site interactions with an ESCRT component. Nature Cell Biology, 2011, 13, 469-474.	10.3	173
9	Quantitative microscopy of functional HIV post-entry complexes reveals association of replication with the viral capsid. ELife, 2014, 3, e04114.	6.0	146
10	HIV-1 nuclear import in macrophages is regulated by CPSF6-capsid interactions at the nuclear pore complex. ELife, 2019, 8, .	6.0	142
11	Super-Resolution Microscopy Reveals Specific Recruitment of HIV-1 Envelope Proteins to Viral Assembly Sites Dependent on the Envelope C-Terminal Tail. PLoS Pathogens, 2013, 9, e1003198.	4.7	131
12	Prevalence of SARS-CoV-2 Infection in Children and Their Parents in Southwest Germany. JAMA Pediatrics, 2021, 175, 586.	6.2	124
13	Double-labelled HIV-1 particles for study of virusâ€"cell interaction. Virology, 2007, 360, 92-104.	2.4	121
14	Retroviral proteases and their roles in virion maturation. Virology, 2015, 479-480, 403-417.	2.4	109
15	HIV-1 Gag Processing Intermediates Trans-dominantly Interfere with HIV-1 Infectivity. Journal of Biological Chemistry, 2009, 284, 29692-29703.	3.4	97
16	Structural Analysis of HIV-1 Maturation Using Cryo-Electron Tomography. PLoS Pathogens, 2010, 6, e1001215.	4.7	96
17	Human Immunodeficiency Virus Type 1 Vpr Protein Is Incorporated into the Virion in Significantly Smaller Amounts than Gag and Is Phosphorylated in Infected Cells. Journal of Virology, 2000, 74, 9727-9731.	3.4	95
18	Live-cell observation of cytosolic HIV-1 assembly onset reveals RNA-interacting Gag oligomers. Journal of Cell Biology, 2015, 210, 629-646.	5.2	86

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19	Probing HIV-1 Membrane Liquid Order by Laurdan Staining Reveals Producer Cell-dependent Differences. Journal of Biological Chemistry, 2009, 284, 22238-22247.	3.4	78
20	Super-Resolution Imaging of ESCRT-Proteins at HIV-1 Assembly Sites. PLoS Pathogens, 2015, 11, e1004677.	4.7	76
21	HIV-1 uncoating by release of viral cDNA from capsid-like structures in the nucleus of infected cells. ELife, 2021, 10, .	6.0	71
22	High-resolution structures of HIV-1 Gag cleavage mutants determine structural switch for virus maturation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9401-E9410.	7.1	65
23	Experimental and computational analyses reveal that environmental restrictions shape HIV-1 spread in 3D cultures. Nature Communications, 2019, 10, 2144.	12.8	60
24	Maturation of the matrix and viral membrane of HIV-1. Science, 2021, 373, 700-704.	12.6	60
25	HIV-1 Entry in SupT1-R5, CEM-ss, and Primary CD4⁺T Cells Occurs at the Plasma Membrane and Does Not Require Endocytosis. Journal of Virology, 2014, 88, 13956-13970.	3.4	58
26	Single-molecule coordinate-based analysis of the morphology of HIV-1 assembly sites with near-molecular spatial resolution. Histochemistry and Cell Biology, 2013, 139, 173-179.	1.7	57
27	A Versatile Tool for Live-Cell Imaging and Super-Resolution Nanoscopy Studies of HIV-1 Env Distribution and Mobility. Cell Chemical Biology, 2017, 24, 635-645.e5.	5.2	55
28	Robust and durable serological response following pediatric SARS-CoV-2 infection. Nature Communications, 2022, 13, 128.	12.8	54
29	Gag-Pol Processing during HIV-1 Virion Maturation: A Systems Biology Approach. PLoS Computational Biology, 2013, 9, e1003103.	3.2	49
30	Synchronized HIV assembly by tunable PIP2 changes reveals PIP2 requirement for stable Gag anchoring. ELife, 2017, 6, .	6.0	45
31	Specific Inhibitors of HIV Capsid Assembly Binding to the C-Terminal Domain of the Capsid Protein: Evaluation of 2-Arylquinazolines as Potential Antiviral Compounds. Journal of Medicinal Chemistry, 2016, 59, 545-558.	6.4	39
32	Shedding new light on viruses: super-resolution microscopy for studying human immunodeficiency virus. Trends in Microbiology, 2013, 21, 522-533.	7.7	38
33	A SNAP-Tagged Derivative of HIV-1â€”A Versatile Tool to Study Virus-Cell Interactions. PLoS ONE, 2011, 6, e22007.	2.5	38
34	Role of the SP2 Domain and Its Proteolytic Cleavage in HIV-1 Structural Maturation and Infectivity. Journal of Virology, 2012, 86, 13708-13716.	3.4	37
35	Labeling of virus components for advanced, quantitative imaging analyses. FEBS Letters, 2016, 590, 1896-1914.	2.8	34
36	Detailed Characterization of Early HIV-1 Replication Dynamics in Primary Human Macrophages. Viruses, 2018, 10, 620.	3.3	34

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37	A Spotlight on Virusesâ€"Application of Click Chemistry to Visualize Virus-Cell Interactions. Molecules, 2019, 24, 481.	3.8	34
38	Analysis of CA Content and CPSF6 Dependence of Early HIV-1 Replication Complexes in SupT1-R5 Cells. MBio, 2019, 10, .	4.1	34
39	HIV-1â€"cellular interactions analyzed by single virus tracing. European Biophysics Journal, 2008, 37, 1291-1301.	2.2	30
40	Stimulated Emission Depletion Nanoscopy Reveals Time-Course of Human Immunodeficiency Virus Proteolytic Maturation. ACS Nano, 2016, 10, 8215-8222.	14.6	30
41	Visualizing fusion of pseudotyped HIV-1 particles in real time by live cell microscopy. Retrovirology, 2009, 6, 84.	2.0	29
42	Induced Maturation of Human Immunodeficiency Virus. Journal of Virology, 2014, 88, 13722-13731.	3.4	29
43	Pooled RT-qPCR testing for SARS-CoV-2 surveillance in schools - a cluster randomised trial. EClinicalMedicine, 2021, 39, 101082.	7.1	29
44	Selective killing of human immunodeficiency virus infected cells by non-nucleoside reverse transcriptase inhibitor-induced activation of HIV protease. Retrovirology, 2010, 7, 89.	2.0	26
45	Superâ€resolved insights into human immunodeficiency virus biology. FEBS Letters, 2016, 590, 1858-1876.	2.8	26
46	Triggering HIV polyprotein processing by light using rapid photodegradation of a tight-binding protease inhibitor. Nature Communications, 2015, 6, 6461.	12.8	25
47	HIV-1 Vpu Antagonizes CD317/Tetherin by Adaptor Protein-1-Mediated Exclusion from Virus Assembly Sites. Journal of Virology, 2016, 90, 6709-6723.	3.4	25
48	Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 in Households with Children, Southwest Germany, Mayâ€"August 2020. Emerging Infectious Diseases, 2021, 27, 3009-3019.	4.3	25
49	Quantitative Live-Cell Imaging of Human Immunodeficiency Virus (HIV-1) Assembly. Viruses, 2012, 4, 777-799.	3.3	24
50	The Nucleocapsid Domain of Gag Is Dispensable for Actin Incorporation into HIV-1 and for Association of Viral Budding Sites with Cortical F-Actin. Journal of Virology, 2014, 88, 7893-7903.	3.4	23
51	Investigating the Role of F-Actin in Human Immunodeficiency Virus Assembly by Live-Cell Microscopy. Journal of Virology, 2014, 88, 7904-7914.	3.4	22
52	A Recurrent Neural Network for Particle Tracking in Microscopy Images Using Future Information, Track Hypotheses, and Multiple Detections. IEEE Transactions on Image Processing, 2020, 29, 3681-3694.	9.8	22
53	Microscopyâ€based assay for semiâ€quantitative detection of SARSâ€CoVâ€2 specific antibodies in human sera. BioEssays, 2021, 43, e2000257.	2.5	22
54	HIV-1 capsid is the key orchestrator of early viral replication. PLoS Pathogens, 2021, 17, e1010109.	4.7	22

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55	Comprehensive Mutational Analysis Reveals p6 ^{Gag} Phosphorylation To Be Dispensable for HIV-1 Morphogenesis and Replication. Journal of Virology, 2013, 87, 724-734.	3.4	17
56	RNA and Nucleocapsid Are Dispensable for Mature HIV-1 Capsid Assembly. Journal of Virology, 2015, 89, 9739-9747.	3.4	17
57	Investigation of <scp>HIV</scp>â€1 Assembly and Release Using Modern Fluorescence Imaging Techniques. Traffic, 2013, 14, 15-24.	2.7	16
58	A Randomized Open label Phase-II Clinical Trial with or without Infusion of Plasma from Subjects after Convalescence of SARS-CoV-2 Infection in High-Risk Patients with Confirmed Severe SARS-CoV-2 Disease (RECOVER): A structured summary of a study protocol for a randomised controlled trial. Trials, 2020, 21, 828.	1.6	16
59	An expanded model of HIV cell entry phenotype based on multi-parameter single-cell data. Retrovirology, 2012, 9, 60.	2.0	15
60	From Multiplex Serology to Serolomicsâ€"A Novel Approach to the Antibody Response against the SARS-CoV-2 Proteome. Viruses, 2021, 13, 749.	3.3	11
61	Identifying Virus-Cell Fusion in Two-Channel Fluorescence Microscopy Image Sequences Based on a Layered Probabilistic Approach. IEEE Transactions on Medical Imaging, 2012, 31, 1786-1808.	8.9	9
62	A simple fluorescence based assay for quantification of human immunodeficiency virus particle release. BMC Biotechnology, 2010, 10, 32.	3.3	8
63	Lactobacilli Expressing Broadly Neutralizing Nanobodies against HIV-1 as Potential Vectors for HIV-1 Prophylaxis?. Vaccines, 2020, 8, 758.	4.4	8
64	In Vitro Analysis of Human Immunodeficiency Virus Particle Dissociation: Gag Proteolytic Processing Influences Dissociation Kinetics. PLoS ONE, 2014, 9, e99504.	2.5	7
65	Prevalence of SARS-CoV-2 Infection in Children and Their Parents in Southwest Germany. SSRN Electronic Journal, 0, , .	0.4	6
66	Dynamics of HIV-1 Gag Processing as Revealed by Fluorescence Lifetime Imaging Microscopy and Single Virus Tracking. Viruses, 2022, 14, 340.	3.3	6
67	Re-visiting the functional Relevance of the highly conserved Serine 40 Residue within HIV-1 p6Gag. Retrovirology, 2014, 11, 114.	2.0	5
68	Reply to Peluso, et al. Clinical Infectious Diseases, 2021, , .	5.8	5
69	Two-filter probabilistic data association for tracking of virus particles in fluorescence microscopy images. , 2018, , .		4
70	Imaging of HIV Assembly and Release. Methods in Molecular Biology, 2014, 1087, 167-184.	0.9	3
71	Novel imaging technologies in the study of HIV. Future Virology, 2011, 6, 929-940.	1.8	2
72	Performance of Dried Blood Spot Samples in SARS-CoV-2 Serolomics. Microorganisms, 2022, 10, 1311.	3.6	1

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73	Investigating the Life Cycle of HIV with Fluorescent Proteins. Springer Series on Fluorescence, 2011, , 249-277.	0.8	0
74	Reply to â€œCorrespondence of FernÃ¡ndez-de-las-PeÃ±asâ€. Clinical Infectious Diseases, 2022, , .	5.8	0