

Markus Hoffmann

List of Publications by Year in descending order

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101
papers

25,594
citations

109137

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34900

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all docs

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docs citations

129
times ranked

43045
citing authors

#	ARTICLE	IF	CITATIONS
1	SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor. <i>Cell</i> , 2020, 181, 271-280.e8.	13.5	16,161
2	A Multibasic Cleavage Site in the Spike Protein of SARS-CoV-2 Is Essential for Infection of Human Lung Cells. <i>Molecular Cell</i> , 2020, 78, 779-784.e5.	4.5	1,527
3	SARS-CoV-2 variants B.1.351 and P.1 escape from neutralizing antibodies. <i>Cell</i> , 2021, 184, 2384-2393.e12.	13.5	848
4	The Omicron variant is highly resistant against antibody-mediated neutralization: Implications for control of the COVID-19 pandemic. <i>Cell</i> , 2022, 185, 447-456.e11.	13.5	736
5	Structural Basis for Potent Neutralization of Betacoronaviruses by Single-Domain Camelid Antibodies. <i>Cell</i> , 2020, 181, 1004-1015.e15.	13.5	506
6	Nafamostat Mesylate Blocks Activation of SARS-CoV-2: New Treatment Option for COVID-19. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	1.4	394
7	Chloroquine does not inhibit infection of human lung cells with SARS-CoV-2. <i>Nature</i> , 2020, 585, 588-590.	13.7	370
8	Immune responses against SARS-CoV-2 variants after heterologous and homologous ChAdOx1 nCoV-19/BNT162b2 vaccination. <i>Nature Medicine</i> , 2021, 27, 1525-1529.	15.2	363
9	Camostat mesylate inhibits SARS-CoV-2 activation by TMPRSS2-related proteases and its metabolite GBPA exerts antiviral activity. <i>EBioMedicine</i> , 2021, 65, 103255.	2.7	256
10	SARS-CoV-2 variant B.1.617 is resistant to bamlanivimab and evades antibodies induced by infection and vaccination. <i>Cell Reports</i> , 2021, 36, 109415.	2.9	206
11	LY6E impairs coronavirus fusion and confers immune control of viral disease. <i>Nature Microbiology</i> , 2020, 5, 1330-1339.	5.9	170
12	Protective mucosal immunity against SARS-CoV-2 after heterologous systemic prime-mucosal boost immunization. <i>Nature Communications</i> , 2021, 12, 6871.	5.8	147
13	Pharmacological Inhibition of Acid Sphingomyelinase Prevents Uptake of SARS-CoV-2 by Epithelial Cells. <i>Cell Reports Medicine</i> , 2020, 1, 100142.	3.3	142
14	Functional analysis of potential cleavage sites in the MERS-coronavirus spike protein. <i>Scientific Reports</i> , 2018, 8, 16597.	1.6	131
15	Mutations in the Spike Protein of Middle East Respiratory Syndrome Coronavirus Transmitted in Korea Increase Resistance to Antibody-Mediated Neutralization. <i>Journal of Virology</i> , 2019, 93, .	1.5	111
16	SARS-CoV-2 neutralizing antibodies: Longevity, breadth, and evasion by emerging viral variants. <i>PLoS Medicine</i> , 2021, 18, e1003656.	3.9	109
17	Heterologous ChAdOx1 nCoV-19 and BNT162b2 prime-boost vaccination elicits potent neutralizing antibody responses and T cell reactivity against prevalent SARS-CoV-2 variants. <i>EBioMedicine</i> , 2022, 75, 103761.	2.7	104
18	Differential Sensitivity of Bat Cells to Infection by Enveloped RNA Viruses: Coronaviruses, Paramyxoviruses, Filoviruses, and Influenza Viruses. <i>PLoS ONE</i> , 2013, 8, e72942.	1.1	103

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19	Low serum neutralizing anti-SARS-CoV-2 S antibody levels in mildly affected COVID-19 convalescent patients revealed by two different detection methods. <i>Cellular and Molecular Immunology</i> , 2021, 18, 936-944.	4.8	98
20	The SARS-CoV-2 and other human coronavirus spike proteins are fine-tuned towards temperature and proteases of the human airways. <i>PLoS Pathogens</i> , 2021, 17, e1009500.	2.1	91
21	Alpha-1 antitrypsin inhibits TMPRSS2 protease activity and SARS-CoV-2 infection. <i>Nature Communications</i> , 2021, 12, 1726.	5.8	86
22	Fusion-active glycoprotein G mediates the cytotoxicity of vesicular stomatitis virus M mutants lacking host shut-off activity. <i>Journal of General Virology</i> , 2010, 91, 2782-2793.	1.3	79
23	Comparable neutralisation evasion of SARS-CoV-2 omicron subvariants BA.1, BA.2, and BA.3. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 766-767.	4.6	79
24	Augmented neutralisation resistance of emerging omicron subvariants BA.2.12.1, BA.4, and BA.5. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 1117-1118.	4.6	79
25	Polymorphisms in dipeptidyl peptidase 4 reduce host cell entry of Middle East respiratory syndrome coronavirus. <i>Emerging Microbes and Infections</i> , 2020, 9, 155-168.	3.0	77
26	SARS-CoV-2 mutations acquired in mink reduce antibody-mediated neutralization. <i>Cell Reports</i> , 2021, 35, 109017.	2.9	77
27	B.1.617.2 enters and fuses lung cells with increased efficiency and evades antibodies induced by infection and vaccination. <i>Cell Reports</i> , 2021, 37, 109825.	2.9	73
28	Different residues in the SARS-CoV spike protein determine cleavage and activation by the host cell protease TMPRSS2. <i>PLoS ONE</i> , 2017, 12, e0179177.	1.1	71
29	Priming Time: How Cellular Proteases Arm Coronavirus Spike Proteins. , 2018, , 71-98.		69
30	Molecular mechanism of inhibiting the SARS-CoV-2 cell entry facilitator TMPRSS2 with camostat and nafamostat. <i>Chemical Science</i> , 2021, 12, 983-992.	3.7	66
31	Comparative Analysis of Ebola Virus Glycoprotein Interactions With Human and Bat Cells. <i>Journal of Infectious Diseases</i> , 2011, 204, S840-S849.	1.9	64
32	Inhibition of acid sphingomyelinase by ambroxol prevents SARS-CoV-2 entry into epithelial cells. <i>Journal of Biological Chemistry</i> , 2021, 296, 100701.	1.6	63
33	Interferon-Induced Transmembrane Proteinâ€‘Mediated Inhibition of Host Cell Entry of Ebolaviruses. <i>Journal of Infectious Diseases</i> , 2015, 212, S210-S218.	1.9	58
34	A novel class of TMPRSS2 inhibitors potently block SARS-CoV-2 and MERS-CoV viral entry and protect human epithelial lung cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	54
35	TMPRSS11A activates the influenza A virus hemagglutinin and the MERS coronavirus spike protein and is insensitive against blockade by HAI-1. <i>Journal of Biological Chemistry</i> , 2018, 293, 13863-13873.	1.6	47
36	Delta variant (B.1.617.2) sublineages do not show increased neutralization resistance. <i>Cellular and Molecular Immunology</i> , 2021, 18, 2557-2559.	4.8	41

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37	The glycoprotein of vesicular stomatitis virus promotes release of virus-like particles from tetherin-positive cells. <i>PLoS ONE</i> , 2017, 12, e0189073.	1.1	40
38	SARS-CoV-2 Omicron sublineages show comparable cell entry but differential neutralization by therapeutic antibodies. <i>Cell Host and Microbe</i> , 2022, 30, 1103-1111.e6.	5.1	38
39	Modulation of HIV-1 Gag/Gag-Pol frameshifting by tRNA abundance. <i>Nucleic Acids Research</i> , 2019, 47, 5210-5222.	6.5	35
40	Neutralization of the SARS-CoV-2 Delta variant after heterologous and homologous BNT162b2 or ChAdOx1 nCoV-19 vaccination. <i>Cellular and Molecular Immunology</i> , 2021, 18, 2455-2456.	4.8	35
41	Sphingosine prevents binding of SARS-CoV-2 spike to its cellular receptor ACE2. <i>Journal of Biological Chemistry</i> , 2020, 295, 15174-15182.	1.6	34
42	A Polymorphism within the Internal Fusion Loop of the Ebola Virus Glycoprotein Modulates Host Cell Entry. <i>Journal of Virology</i> , 2017, 91, .	1.5	33
43	Novel SARS-CoV-2 receptors: ASGR1 and KREMEN1. <i>Cell Research</i> , 2022, 32, 1-2.	5.7	33
44	The Glycoproteins of All Filovirus Species Use the Same Host Factors for Entry into Bat and Human Cells but Entry Efficiency Is Species Dependent. <i>PLoS ONE</i> , 2016, 11, e0149651.	1.1	30
45	Humoral and Cellular Immune Responses Against Severe Acute Respiratory Syndrome Coronavirus 2 Variants and Human Coronaviruses After Single BNT162b2 Vaccination. <i>Clinical Infectious Diseases</i> , 2021, 73, 2000-2008.	2.9	30
46	Rapid SARS-CoV-2 Adaptation to Available Cellular Proteases. <i>Journal of Virology</i> , 2022, 96, jvi0218621.	1.5	30
47	Rapid response flow cytometric assay for the detection of antibody responses to SARS-CoV-2. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2021, 40, 751-759.	1.3	29
48	The MEK1/2-inhibitor ATR-002 efficiently blocks SARS-CoV-2 propagation and alleviates pro-inflammatory cytokine/chemokine responses. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 65.	2.4	29
49	A system for production of defective interfering particles in the absence of infectious influenza A virus. <i>PLoS ONE</i> , 2019, 14, e0212757.	1.1	27
50	Omicron: Master of immune evasion maintains robust ACE2 binding. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 118.	7.1	27
51	Therapeutic Application of Alpha-1 Antitrypsin in COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 224-227.	2.5	25
52	The spike protein of SARS-CoV-2 variant A.30 is heavily mutated and evades vaccine-induced antibodies with high efficiency. <i>Cellular and Molecular Immunology</i> , 2021, 18, 2673-2675.	4.8	25
53	Spike residue 403 affects binding of coronavirus spikes to human ACE2. <i>Nature Communications</i> , 2021, 12, 6855.	5.8	25
54	A pair of noncompeting neutralizing human monoclonal antibodies protecting from disease in a SARS-CoV-2 infection model. <i>European Journal of Immunology</i> , 2022, 52, 770-783.	1.6	24

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55	SARS-CoV-2 delta variant neutralisation after heterologous ChAdOx1-S/BNT162b2 vaccination. <i>Lancet, The</i> , 2021, 398, 1041-1042.	6.3	24
56	Completion of Hepatitis C Virus Replication Cycle in Heterokaryons Excludes Dominant Restrictions in Human Non-liver and Mouse Liver Cell Lines. <i>PLoS Pathogens</i> , 2011, 7, e1002029.	2.1	23
57	The Hemagglutinin of Bat-Associated Influenza Viruses Is Activated by TMPRSS2 for pH-Dependent Entry into Bat but Not Human Cells. <i>PLoS ONE</i> , 2016, 11, e0152134.	1.1	23
58	Mutation D614G increases SARS-CoV-2 transmission. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 101.	7.1	22
59	Characterization of African bat henipavirus GH-M74a glycoproteins. <i>Journal of General Virology</i> , 2014, 95, 539-548.	1.3	21
60	The Tetherin Antagonism of the Ebola Virus Glycoprotein Requires an Intact Receptor-Binding Domain and Can Be Blocked by GP1-Specific Antibodies. <i>Journal of Virology</i> , 2016, 90, 11075-11086.	1.5	21
61	How SARS-CoV-2 makes the cut. <i>Nature Microbiology</i> , 2021, 6, 828-829.	5.9	21
62	Surface Glycoproteins of an African Henipavirus Induce Syncytium Formation in a Cell Line Derived from an African Fruit Bat, <i>Hypsignathus monstrosus</i> . <i>Journal of Virology</i> , 2013, 87, 13889-13891.	1.5	20
63	Dynamic Ca ²⁺ sensitivity stimulates the evolved SARS-CoV-2 spike strain-mediated membrane fusion for enhanced entry. <i>Cell Reports</i> , 2022, 39, 110694.	2.9	19
64	Tetherin Inhibits Nipah Virus but Not Ebola Virus Replication in Fruit Bat Cells. <i>Journal of Virology</i> , 2019, 93, .	1.5	18
65	Functional Properties and Genetic Relatedness of the Fusion and Hemagglutinin-Neuraminidase Proteins of a Mumps Virus-Like Bat Virus. <i>Journal of Virology</i> , 2015, 89, 4539-4548.	1.5	17
66	Evidence for an ACE2-Independent Entry Pathway That Can Protect from Neutralization by an Antibody Used for COVID-19 Therapy. <i>MBio</i> , 2022, 13, e0036422.	1.8	17
67	The Upper Respiratory Tract of Felids Is Highly Susceptible to SARS-CoV-2 Infection. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10636.	1.8	16
68	Isolation and Characterization of New Variant Strains of Infectious Bronchitis Virus in Northern Egypt. <i>Advances in Animal and Veterinary Sciences</i> , 2015, 3, 362-371.	0.1	14
69	Entry, Replication, Immune Evasion, and Neurotoxicity of Synthetically Engineered Bat-Borne Mumps Virus. <i>Cell Reports</i> , 2018, 25, 312-320.e7.	2.9	13
70	Calu-3 cells are largely resistant to entry driven by filovirus glycoproteins and the entry defect can be rescued by directed expression of DC-SIGN or cathepsin L. <i>Virology</i> , 2019, 532, 22-29.	1.1	13
71	Release of Immunomodulatory Ebola Virus Glycoprotein-Containing Microvesicles Is Suppressed by Tetherin in a Species-Specific Manner. <i>Cell Reports</i> , 2019, 26, 1841-1853.e6.	2.9	13
72	A GXXXA Motif in the Transmembrane Domain of the Ebola Virus Glycoprotein Is Required for Tetherin Antagonism. <i>Journal of Virology</i> , 2018, 92, .	1.5	12

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73	Synergistic inhibition of SARS-CoV-2 cell entry by otamixaban and covalent protease inhibitors: pre-clinical assessment of pharmacological and molecular properties. <i>Chemical Science</i> , 2021, 12, 12600-12609.	3.7	11
74	Improved cellular and humoral immunity upon a second BNT162b2 and mRNA-1273 boost in prime-boost vaccination no/low responders with end-stage renal disease. <i>Kidney International</i> , 2021, 100, 1335-1337.	2.6	11
75	Attachment Protein G of an African Bat Henipavirus Is Differentially Restricted in Chiropteran and Nonchiropteran Cells. <i>Journal of Virology</i> , 2014, 88, 11973-11980.	1.5	10
76	Augmented neutralization of SARS-CoV-2 Omicron variant by boost vaccination and monoclonal antibodies. <i>European Journal of Immunology</i> , 2022, 52, 970-977.	1.6	10
77	Virion Background and Efficiency of Virion Incorporation Determine Susceptibility of Simian Immunodeficiency Virus Env-Driven Viral Entry to Inhibition by IFITM Proteins. <i>Journal of Virology</i> , 2017, 91, .	1.5	9
78	Spike proteins of novel MERS-coronavirus isolates from North- and West-African dromedary camels mediate robust viral entry into human target cells. <i>Virology</i> , 2019, 535, 261-265.	1.1	9
79	Neutralizing antibody responses 300 days after SARS-CoV-2 infection and induction of high antibody titers after vaccination. <i>European Journal of Immunology</i> , 2022, 52, 810-815.	1.6	9
80	Exploring antiviral and anti-inflammatory effects of thiol drugs in COVID-19. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 323, L372-L389.	1.3	9
81	Cell Entry of Influenza A Viruses: Sweet Talk between HA and CaV1.2. <i>Cell Host and Microbe</i> , 2018, 23, 697-699.	5.1	8
82	Dalbavancin: novel candidate for COVID-19 treatment. <i>Cell Research</i> , 2021, 31, 243-244.	5.7	8
83	MCMV-based vaccine vectors expressing full-length viral proteins provide long-term humoral immune protection upon a single-shot vaccination. <i>Cellular and Molecular Immunology</i> , 2022, 19, 234-244.	4.8	8
84	Functional analysis of polymorphisms at the S1/S2 site of SARS-CoV-2 spike protein. <i>PLoS ONE</i> , 2022, 17, e0265453.	1.1	8
85	Ex vivo assay to evaluate the efficacy of drugs targeting sphingolipids in preventing SARS-CoV-2 infection of nasal epithelial cells. <i>STAR Protocols</i> , 2021, 2, 100356.	0.5	7
86	No evidence for increased cell entry or antibody evasion by Delta sublineage AY.4.2. <i>Cellular and Molecular Immunology</i> , 2022, 19, 449-452.	4.8	7
87	Peptidomimetic inhibitors of TMPRSS2 block SARS-CoV-2 infection in cell culture. <i>Communications Biology</i> , 2022, 5, .	2.0	6
88	Fusogenicity of the Ghana Virus (Henipavirus: Ghanaian bat henipavirus) Fusion Protein is Controlled by the Cytoplasmic Domain of the Attachment Glycoprotein. <i>Viruses</i> , 2019, 11, 800.	1.5	5
89	Recombinant mumps viruses expressing the batMuV fusion glycoprotein are highly fusion active and neurovirulent. <i>Journal of General Virology</i> , 2016, 97, 2837-2848.	1.3	5
90	SARS-CoV-2 variants C.1.2 and B.1.621 (Mu) partially evade neutralization by antibodies elicited upon infection or vaccination. <i>Cell Reports</i> , 2022, 39, 110754.	2.9	5

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91	Disease Manifestation and Viral Sequences in a Bonobo More Than 30 Years after Papillomavirus Infection. <i>Pathogens</i> , 2019, 8, 13.	1.2	4
92	Analysis of Resistance of Ebola Virus Glycoprotein-Driven Entry Against MDL28170, An Inhibitor of Cysteine Cathepsins. <i>Pathogens</i> , 2019, 8, 192.	1.2	3
93	A surrogate cell-based SARS-CoV-2 spike blocking assay. <i>European Journal of Immunology</i> , 2021, 51, 2665-2676.	1.6	3
94	Understanding Omicron: Transmissibility, immune evasion and antiviral intervention. <i>Clinical and Translational Medicine</i> , 2022, 12, e839.	1.7	3
95	Mutagenic Analysis of the HIV Restriction Factor Shiftless. <i>Viruses</i> , 2022, 14, 1454.	1.5	3
96	Nafamostat-Mediated Inhibition of SARS-CoV-2 Ribosomal Frameshifting Is Insufficient to Impair Viral Replication in Vero Cells. Comment on Munshi et al. Identifying Inhibitors of ω 1 Programmed Ribosomal Frameshifting in a Broad Spectrum of Coronaviruses. <i>Viruses</i> 2022, 14, 177. <i>Viruses</i> , 2022, 14, 1526.	1.5	3
97	Role of rhesus macaque IFITM3(2) in simian immunodeficiency virus infection of macaques. <i>PLoS ONE</i> , 2019, 14, e0224082.	1.1	1
98	Development and Evaluation of Peptidomimetic Compounds against SARS-CoV-2 Spike Protein: An <i>in silico</i> and <i>in vitro</i> Study. <i>Molecular Informatics</i> , 2022, 41, .	1.4	1
99	40 COMPLETION OF HEPATITIS C VIRUS REPLICATION CYCLE IN HETEROKARYONS EXCLUDES DOMINANT RESTRICTION FACTORS IN HUMAN NON-LIVER AND MOUSE LIVER CELL LINES. <i>Journal of Hepatology</i> , 2011, 54, S18-S19.	1.8	0
100	The Amino Acid at Position 8 of the Proteolytic Cleavage Site of the Mumps Virus Fusion Protein Affects Viral Proteolysis and Fusogenicity. <i>Journal of Virology</i> , 2020, 94, .	1.5	0
101	Efficient antibody evasion but reduced ACE2 binding by the emerging SARS-CoV-2 variant B.1.640.2. , 2022, , .		0