

Michael Farzan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3827562/michael-farzan-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163
papers

28,484
citations

72
h-index

168
g-index

172
ext. papers

33,170
ext. citations

12.5
avg, IF

6.79
L-index

#	Paper	IF	Citations
163	Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus. <i>Nature</i> , 2003 , 426, 450-4	50.4	3969
162	The beta-chemokine receptors CCR3 and CCR5 facilitate infection by primary HIV-1 isolates. <i>Cell</i> , 1996 , 85, 1135-48	56.2	2099
161	The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry. <i>Nature</i> , 1996 , 382, 829-33	50.4	1754
160	Structure of SARS coronavirus spike receptor-binding domain complexed with receptor. <i>Science</i> , 2005 , 309, 1864-8	33.3	1383
159	SARS-CoV-2 Receptor ACE2 Is an Interferon-Stimulated Gene in Human Airway Epithelial Cells and Is Detected in Specific Cell Subsets across Tissues. <i>Cell</i> , 2020 , 181, 1016-1035.e19	56.2	1326
158	The IFITM proteins mediate cellular resistance to influenza A H1N1 virus, West Nile virus, and dengue virus. <i>Cell</i> , 2009 , 139, 1243-54	56.2	921
157	CCR3 and CCR5 are co-receptors for HIV-1 infection of microglia. <i>Nature</i> , 1997 , 385, 645-9	50.4	821
156	Receptor and viral determinants of SARS-coronavirus adaptation to human ACE2. <i>EMBO Journal</i> , 2005 , 24, 1634-43	13	710
155	Influenza A virus NS1 targets the ubiquitin ligase TRIM25 to evade recognition by the host viral RNA sensor RIG-I. <i>Cell Host and Microbe</i> , 2009 , 5, 439-49	23.4	600
154	ACE2 receptor expression and severe acute respiratory syndrome coronavirus infection depend on differentiation of human airway epithelia. <i>Journal of Virology</i> , 2005 , 79, 14614-21	6.6	593
153	Tyrosine sulfation of the amino terminus of CCR5 facilitates HIV-1 entry. <i>Cell</i> , 1999 , 96, 667-76	56.2	589
152	A 193-amino acid fragment of the SARS coronavirus S protein efficiently binds angiotensin-converting enzyme 2. <i>Journal of Biological Chemistry</i> , 2004 , 279, 3197-201	5.4	528
151	Potent neutralization of severe acute respiratory syndrome (SARS) coronavirus by a human mAb to S1 protein that blocks receptor association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 2536-41	11.5	481
150	The broad-spectrum antiviral functions of IFIT and IFITM proteins. <i>Nature Reviews Immunology</i> , 2013 , 13, 46-57	36.5	478
149	SARS-CoV-2 spike-protein D614G mutation increases virion spike density and infectivity. <i>Nature Communications</i> , 2020 , 11, 6013	17.4	450
148	Distinct patterns of IFITM-mediated restriction of filoviruses, SARS coronavirus, and influenza A virus. <i>PLoS Pathogens</i> , 2011 , 7, e1001258	7.6	417
147	BACE2, a beta -secretase homolog, cleaves at the beta site and within the amyloid-beta region of the amyloid-beta precursor protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 9712-7	11.5	335

146	Receptor-binding domain of SARS-CoV spike protein induces highly potent neutralizing antibodies: implication for developing subunit vaccine. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 324, 773-81	3.4	316
145	Transferrin receptor 1 is a cellular receptor for New World haemorrhagic fever arenaviruses. <i>Nature</i> , 2007 , 446, 92-6	50.4	314
144	The D614G mutation in the SARS-CoV-2 spike protein reduces S1 shedding and increases infectivity 2020 ,		294
143	IFITM-Family Proteins: The Cell's First Line of Antiviral Defense. <i>Annual Review of Virology</i> , 2014 , 1, 261-283	24.6	262
142	SARS coronavirus, but not human coronavirus NL63, utilizes cathepsin L to infect ACE2-expressing cells. <i>Journal of Biological Chemistry</i> , 2006 , 281, 3198-203	5.4	261
141	Two orphan seven-transmembrane segment receptors which are expressed in CD4-positive cells support simian immunodeficiency virus infection. <i>Journal of Experimental Medicine</i> , 1997 , 186, 405-11	16.6	257
140	Structural basis of tyrosine sulfation and VH-gene usage in antibodies that recognize the HIV type 1 coreceptor-binding site on gp120. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 2706-11	11.5	236
139	Mechanisms of SARS-CoV-2 entry into cells. <i>Nature Reviews Molecular Cell Biology</i> , 2021 ,	48.7	228
138	The antiviral effector IFITM3 disrupts intracellular cholesterol homeostasis to block viral entry. <i>Cell Host and Microbe</i> , 2013 , 13, 452-64	23.4	225
137	TIM-family proteins promote infection of multiple enveloped viruses through virion-associated phosphatidylserine. <i>PLoS Pathogens</i> , 2013 , 9, e1003232	7.6	223
136	AAV-expressed eCD4-Ig provides durable protection from multiple SHIV challenges. <i>Nature</i> , 2015 , 519, 87-91	50.4	211
135	Animal origins of the severe acute respiratory syndrome coronavirus: insight from ACE2-S-protein interactions. <i>Journal of Virology</i> , 2006 , 80, 4211-9	6.6	206
134	Retroviruses pseudotyped with the severe acute respiratory syndrome coronavirus spike protein efficiently infect cells expressing angiotensin-converting enzyme 2. <i>Journal of Virology</i> , 2004 , 78, 10628-35	6.6	197
133	Increased CCR5 affinity and reduced CCR5/CD4 dependence of a neurovirulent primary human immunodeficiency virus type 1 isolate. <i>Journal of Virology</i> , 2002 , 76, 6277-92	6.6	197
132	Structural basis of neutralization by a human anti-severe acute respiratory syndrome spike protein antibody, 80R. <i>Journal of Biological Chemistry</i> , 2006 , 281, 34610-6	5.4	174
131	Ligand-independent dimerization of CXCR4, a principal HIV-1 coreceptor. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3378-85	5.4	173
130	A tyrosine-rich region in the N terminus of CCR5 is important for human immunodeficiency virus type 1 entry and mediates an association between gp120 and CCR5. <i>Journal of Virology</i> , 1998 , 72, 1160-4	6.6	173
129	Recombinant modified vaccinia virus Ankara expressing the spike glycoprotein of severe acute respiratory syndrome coronavirus induces protective neutralizing antibodies primarily targeting the receptor binding region. <i>Journal of Virology</i> , 2005 , 79, 2678-88	6.6	171

128	The Triggering Receptor Expressed on Myeloid Cells 2 Binds Apolipoprotein E. <i>Journal of Biological Chemistry</i> , 2015 , 290, 26033-42	5.4	167
127	Ifitm3 limits the severity of acute influenza in mice. <i>PLoS Pathogens</i> , 2012 , 8, e1002909	7.6	167
126	Tyrosine sulfation of human antibodies contributes to recognition of the CCR5 binding region of HIV-1 gp120. <i>Cell</i> , 2003 , 114, 161-70	56.2	166
125	HIV-1 entry and macrophage inflammatory protein-1beta-mediated signaling are independent functions of the chemokine receptor CCR5. <i>Journal of Biological Chemistry</i> , 1997 , 272, 6854-7	5.4	164
124	The role of post-translational modifications of the CXCR4 amino terminus in stromal-derived factor 1 alpha association and HIV-1 entry. <i>Journal of Biological Chemistry</i> , 2002 , 277, 29484-9	5.4	163
123	The orphan seven-transmembrane receptor apj supports the entry of primary T-cell-line-tropic and dualtropic human immunodeficiency virus type 1. <i>Journal of Virology</i> , 1998 , 72, 6113-8	6.6	158
122	Characterization of stable, soluble trimers containing complete ectodomains of human immunodeficiency virus type 1 envelope glycoproteins. <i>Journal of Virology</i> , 2000 , 74, 5716-25	6.6	156
121	Evolution of a TRIM5-CypA splice isoform in old world monkeys. <i>PLoS Pathogens</i> , 2008 , 4, e1000003	7.6	152
120	Antibody responses against SARS coronavirus are correlated with disease outcome of infected individuals. <i>Journal of Medical Virology</i> , 2006 , 78, 1-8	19.7	152
119	Efficient replication of severe acute respiratory syndrome coronavirus in mouse cells is limited by murine angiotensin-converting enzyme 2. <i>Journal of Virology</i> , 2004 , 78, 11429-33	6.6	139
118	Adaptation of a CCR5-using, primary human immunodeficiency virus type 1 isolate for CD4-independent replication. <i>Journal of Virology</i> , 1999 , 73, 8120-6	6.6	136
117	Envelope residue 375 substitutions in simian-human immunodeficiency viruses enhance CD4 binding and replication in rhesus macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3413-22	11.5	132
116	A Single Immunization with Nucleoside-Modified mRNA Vaccines Elicits Strong Cellular and Humoral Immune Responses against SARS-CoV-2 in Mice. <i>Immunity</i> , 2020 , 53, 724-732.e7	32.3	132
115	A tyrosine-sulfated peptide based on the N terminus of CCR5 interacts with a CD4-enhanced epitope of the HIV-1 gp120 envelope glycoprotein and inhibits HIV-1 entry. <i>Journal of Biological Chemistry</i> , 2000 , 275, 33516-21	5.4	130
114	Evaluation of human monoclonal antibody 80R for immunoprophylaxis of severe acute respiratory syndrome by an animal study, epitope mapping, and analysis of spike variants. <i>Journal of Virology</i> , 2005 , 79, 5900-6	6.6	129
113	Sialylated O-glycans and sulfated tyrosines in the NH2-terminal domain of CC chemokine receptor 5 contribute to high affinity binding of chemokines. <i>Journal of Experimental Medicine</i> , 2001 , 194, 1661-73	16.6	127
112	The S proteins of human coronavirus NL63 and severe acute respiratory syndrome coronavirus bind overlapping regions of ACE2. <i>Virology</i> , 2007 , 367, 367-74	3.6	119
111	Sulphated tyrosines mediate association of chemokines and Plasmodium vivax Duffy binding protein with the Duffy antigen/receptor for chemokines (DARC). <i>Molecular Microbiology</i> , 2005 , 55, 1413-22	4.1	118

110	Enhanced expression, native purification, and characterization of CCR5, a principal HIV-1 coreceptor. <i>Journal of Biological Chemistry</i> , 1999 , 274, 28745-50	5.4	118
109	Protein evolution with an expanded genetic code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17688-93	11.5	116
108	CD4-independent binding of SIV gp120 to rhesus CCR5. <i>Science</i> , 1997 , 278, 1470-3	33.3	111
107	Paramagnetic proteoliposomes containing a pure, native, and oriented seven-transmembrane segment protein, CCR5. <i>Nature Biotechnology</i> , 2000 , 18, 649-54	44.5	107
106	Structural basis for receptor recognition by New World hemorrhagic fever arenaviruses. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 438-44	17.6	105
105	Influenza A virus neuraminidase limits viral superinfection. <i>Journal of Virology</i> , 2008 , 82, 4834-43	6.6	104
104	Conserved receptor-binding domains of Lake Victoria marburgvirus and Zaire ebolavirus bind a common receptor. <i>Journal of Biological Chemistry</i> , 2006 , 281, 15951-8	5.4	104
103	Receptor determinants of zoonotic transmission of New World hemorrhagic fever arenaviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 2664-9	11.5	99
102	Conformational states of the severe acute respiratory syndrome coronavirus spike protein ectodomain. <i>Journal of Virology</i> , 2006 , 80, 6794-800	6.6	96
101	Palmitoylation of the cysteine-rich endodomain of the SARS-coronavirus spike glycoprotein is important for spike-mediated cell fusion. <i>Virology</i> , 2007 , 360, 264-74	3.6	93
100	Cross-neutralization of human and palm civet severe acute respiratory syndrome coronaviruses by antibodies targeting the receptor-binding domain of spike protein. <i>Journal of Immunology</i> , 2006 , 176, 6085-92	5.3	93
99	Associating HIV-1 envelope glycoprotein structures with states on the virus observed by smFRET. <i>Nature</i> , 2019 , 568, 415-419	50.4	92
98	IFITM-2 and IFITM-3 but not IFITM-1 restrict Rift Valley fever virus. <i>Journal of Virology</i> , 2013 , 87, 8451-646.6		90
97	Dual host-virus arms races shape an essential housekeeping protein. <i>PLoS Biology</i> , 2013 , 11, e1001571	9.7	89
96	Mapping binding residues in the Plasmodium vivax domain that binds Duffy antigen during red cell invasion. <i>Molecular Microbiology</i> , 2005 , 55, 1423-34	4.1	88
95	Virion-associated phosphatidylethanolamine promotes TIM1-mediated infection by Ebola, dengue, and West Nile viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14682-7	11.5	85
94	Host-species transferrin receptor 1 orthologs are cellular receptors for nonpathogenic new world clade B arenaviruses. <i>PLoS Pathogens</i> , 2009 , 5, e1000358	7.6	85
93	Hydroxychloroquine-mediated inhibition of SARS-CoV-2 entry is attenuated by TMPRSS2. <i>PLoS Pathogens</i> , 2021 , 17, e1009212	7.6	85

92	Apelin, the natural ligand of the orphan seven-transmembrane receptor APJ, inhibits human immunodeficiency virus type 1 entry. <i>Journal of Virology</i> , 2000 , 74, 11972-6	6.6	79
91	Evidence for ACE2-utilizing coronaviruses (CoVs) related to severe acute respiratory syndrome CoV in bats. <i>Journal of Virology</i> , 2012 , 86, 6350-3	6.6	72
90	Sulfated tyrosines contribute to the formation of the C5a docking site of the human C5a anaphylatoxin receptor. <i>Journal of Experimental Medicine</i> , 2001 , 193, 1059-66	16.6	72
89	Stabilization of human immunodeficiency virus type 1 envelope glycoprotein trimers by disulfide bonds introduced into the gp41 glycoprotein ectodomain. <i>Journal of Virology</i> , 1998 , 72, 7620-5	6.6	69
88	Mechanism for Selective Synaptic Wiring of Rod Photoreceptors into the Retinal Circuitry and Its Role in Vision. <i>Neuron</i> , 2015 , 87, 1248-1260	13.9	68
87	Stimulation of enveloped virus infection by beta-amyloid fibrils. <i>Journal of Biological Chemistry</i> , 2002 , 277, 35019-24	5.4	65
86	A highly conserved arginine in gp120 governs HIV-1 binding to both syndecans and CCR5 via sulfated motifs. <i>Journal of Biological Chemistry</i> , 2005 , 280, 39493-504	5.4	64
85	Interferon-induced transmembrane protein 3 is a type II transmembrane protein. <i>Journal of Biological Chemistry</i> , 2013 , 288, 32184-32193	5.4	63
84	The Interferon-Stimulated Gene Ifitm3 Restricts West Nile Virus Infection and Pathogenesis. <i>Journal of Virology</i> , 2016 , 90, 8212-25	6.6	63
83	The SARS-CoV-2 receptor-binding domain elicits a potent neutralizing response without antibody-dependent enhancement		59
82	Genetic analysis of the SARS-coronavirus spike glycoprotein functional domains involved in cell-surface expression and cell-to-cell fusion. <i>Virology</i> , 2005 , 341, 215-30	3.6	57
81	Lectin-dependent enhancement of Ebola virus infection via soluble and transmembrane C-type lectin receptors. <i>PLoS ONE</i> , 2013 , 8, e60838	3.7	56
80	The antiviral restriction factors IFITM1, 2 and 3 do not inhibit infection of human papillomavirus, cytomegalovirus and adenovirus. <i>PLoS ONE</i> , 2014 , 9, e96579	3.7	55
79	Generation and characterization of human monoclonal neutralizing antibodies with distinct binding and sequence features against SARS coronavirus using Xenomouse. <i>Virology</i> , 2007 , 361, 93-102	3.6	54
78	CD4-induced T-20 binding to human immunodeficiency virus type 1 gp120 blocks interaction with the CXCR4 coreceptor. <i>Journal of Virology</i> , 2004 , 78, 5448-57	6.6	54
77	Human Mast cell progenitors can be infected by macrophagetropic human immunodeficiency virus type 1 and retain virus with maturation in vitro. <i>Journal of Virology</i> , 2001 , 75, 10808-14	6.6	54
76	The Interferon-Stimulated Gene IFITM3 Restricts Infection and Pathogenesis of Arthritogenic and Encephalitic Alphaviruses. <i>Journal of Virology</i> , 2016 , 90, 8780-94	6.6	54
75	A tyrosine-sulfated peptide derived from the heavy-chain CDR3 region of an HIV-1-neutralizing antibody binds gp120 and inhibits HIV-1 infection. <i>Journal of Biological Chemistry</i> , 2006 , 281, 28529-35	5.4	52

74	Structural interactions between chemokine receptors, gp120 Env and CD4. <i>Seminars in Immunology</i> , 1998 , 10, 249-57	10.7	49
73	Tyrosine-sulfated peptides functionally reconstitute a CCR5 variant lacking a critical amino-terminal region. <i>Journal of Biological Chemistry</i> , 2002 , 277, 40397-402	5.4	48
72	Rational design of aptazyme riboswitches for efficient control of gene expression in mammalian cells. <i>ELife</i> , 2016 , 5,	8.9	48
71	SARS-CoV-2 and Three Related Coronaviruses Utilize Multiple ACE2 Orthologs and Are Potently Blocked by an Improved ACE2-Ig. <i>Journal of Virology</i> , 2020 , 94,	6.6	48
70	A trimeric human angiotensin-converting enzyme 2 as an anti-SARS-CoV-2 agent. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 202-209	17.6	46
69	Envelope Glycoprotein Internalization Protects Human and Simian Immunodeficiency Virus-Infected Cells from Antibody-Dependent Cell-Mediated Cytotoxicity. <i>Journal of Virology</i> , 2015 , 89, 10648-55	6.6	45
68	Cpf1 proteins excise CRISPR RNAs from mRNA transcripts in mammalian cells. <i>Nature Chemical Biology</i> , 2017 , 13, 839-841	11.7	42
67	Transferrin receptor 1 in the zoonosis and pathogenesis of New World hemorrhagic fever arenaviruses. <i>Current Opinion in Microbiology</i> , 2011 , 14, 476-82	7.9	42
66	An antibody recognizing the apical domain of human transferrin receptor 1 efficiently inhibits the entry of all new world hemorrhagic Fever arenaviruses. <i>Journal of Virology</i> , 2012 , 86, 4024-8	6.6	41
65	Changes in the V3 region of gp120 contribute to unusually broad coreceptor usage of an HIV-1 isolate from a CCR5 Delta32 heterozygote. <i>Virology</i> , 2007 , 362, 163-78	3.6	39
64	Ebolavirus delta-peptide immunoadhesins inhibit marburgvirus and ebolavirus cell entry. <i>Journal of Virology</i> , 2011 , 85, 8502-13	6.6	38
63	N-linked glycosylation in the CXCR4 N-terminus inhibits binding to HIV-1 envelope glycoproteins. <i>Virology</i> , 2004 , 324, 140-50	3.6	37
62	IFITM proteins restrict antibody-dependent enhancement of dengue virus infection. <i>PLoS ONE</i> , 2012 , 7, e34508	3.7	36
61	Functional importance of the D614G mutation in the SARS-CoV-2 spike protein. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 538, 108-115	3.4	36
60	IFITM3 polymorphism rs12252-C restricts influenza A viruses. <i>PLoS ONE</i> , 2014 , 9, e110096	3.7	35
59	Functional mimicry of a human immunodeficiency virus type 1 coreceptor by a neutralizing monoclonal antibody. <i>Journal of Virology</i> , 2005 , 79, 6068-77	6.6	32
58	Mutagenesis and evolution of sulfated antibodies using an expanded genetic code. <i>Biochemistry</i> , 2009 , 48, 8891-8	3.2	29
57	Chapter 7. Tyrosine sulfation of HIV-1 coreceptors and other chemokine receptors. <i>Methods in Enzymology</i> , 2009 , 461, 147-70	1.7	28

56	Identification of a new region of SARS-CoV S protein critical for viral entry. <i>Journal of Molecular Biology</i> , 2009 , 394, 600-5	6.5	26
55	A reversible RNA on-switch that controls gene expression of AAV-delivered therapeutics in vivo. <i>Nature Biotechnology</i> , 2020 , 38, 169-175	44.5	26
54	Anti-drug Antibody Responses Impair Prophylaxis Mediated by AAV-Delivered HIV-1 Broadly Neutralizing Antibodies. <i>Molecular Therapy</i> , 2019 , 27, 650-660	11.7	25
53	UVRAG is required for virus entry through combinatorial interaction with the class C-Vps complex and SNAREs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2716-21	11.5	25
52	Zika Virus-Immune Plasmas from Symptomatic and Asymptomatic Individuals Enhance Zika Pathogenesis in Adult and Pregnant Mice. <i>MBio</i> , 2019 , 10,	7.8	23
51	The bis-azo compound FP-21399 inhibits HIV-1 replication by preventing viral entry. <i>Virology</i> , 1998 , 244, 530-41	3.6	23
50	Infection of human airway epithelia by SARS coronavirus is associated with ACE2 expression and localization. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 479-84	3.6	22
49	Enhanced recognition and neutralization of HIV-1 by antibody-derived CCR5-mimetic peptide variants. <i>Journal of Virology</i> , 2012 , 86, 12417-21	6.6	21
48	Potential host range of multiple SARS-like coronaviruses and an improved ACE2-Fc variant that is potent against both SARS-CoV-2 and SARS-CoV-1		21
47	High-Throughput Screening for Drugs That Inhibit Papain-Like Protease in SARS-CoV-2. <i>SLAS Discovery</i> , 2020 , 25, 1152-1161	3.4	21
46	SARS-CoV, but not HCoV-NL63, utilizes cathepsins to infect cells: viral entry. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 335-8	3.6	21
45	AAV-delivered eCD4-Ig protects rhesus macaques from high-dose SIVmac239 challenges. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	20
44	A New World primate deficient in tetherin-mediated restriction of human immunodeficiency virus type 1. <i>Journal of Virology</i> , 2009 , 83, 8771-80	6.6	20
43	Mutations derived from horseshoe bat ACE2 orthologs enhance ACE2-Fc neutralization of SARS-CoV-2. <i>PLoS Pathogens</i> , 2021 , 17, e1009501	7.6	20
42	Neutralization properties of simian immunodeficiency viruses infecting chimpanzees and gorillas. <i>MBio</i> , 2015 , 6,	7.8	19
41	IFITM3 functions as a PIP3 scaffold to amplify PI3K signalling in B cells. <i>Nature</i> , 2020 , 588, 491-497	50.4	19
40	A Bispecific Antibody That Simultaneously Recognizes the V2- and V3-Glycan Epitopes of the HIV-1 Envelope Glycoprotein Is Broader and More Potent than Its Parental Antibodies. <i>MBio</i> , 2020 , 11,	7.8	19
39	eCD4-Ig promotes ADCC activity of sera from HIV-1-infected patients. <i>PLoS Pathogens</i> , 2017 , 13, e1006786	3.6	19

38	Use of murine CXCR-4 as a second receptor by some T-cell-tropic human immunodeficiency viruses. <i>Journal of Virology</i> , 1998 , 72, 1652-6	6.6	18
37	A tyrosine-sulfated CCR5-mimetic peptide promotes conformational transitions in the HIV-1 envelope glycoprotein. <i>Journal of Virology</i> , 2011 , 85, 7563-71	6.6	17
36	eCD4-Ig Variants That More Potently Neutralize HIV-1. <i>Journal of Virology</i> , 2018 , 92,	6.6	16
35	Mutations from bat ACE2 orthologs markedly enhance ACE2-Fc neutralization of SARS-CoV-2 2020 ,		16
34	Insights from the association of SARS-CoV S-protein with its receptor, ACE2. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 209-18	3.6	16
33	eCD4-Ig Limits HIV-1 Escape More Effectively than CD4-Ig or a Broadly Neutralizing Antibody. <i>Journal of Virology</i> , 2019 , 93,	6.6	15
32	Conditional Regulation of Gene Expression by Ligand-Induced Occlusion of a MicroRNA Target Sequence. <i>Molecular Therapy</i> , 2018 , 26, 1277-1286	11.7	15
31	Effect of SARS-CoV-2 spike mutations on animal ACE2 usage and in vitro neutralization sensitivity		15
30	Engineering antibody-like inhibitors to prevent and treat HIV-1 infection. <i>Current Opinion in HIV and AIDS</i> , 2017 , 12, 294-301	4.2	14
29	An alternative conformation of the gp41 heptad repeat 1 region coiled coil exists in the human immunodeficiency virus (HIV-1) envelope glycoprotein precursor. <i>Virology</i> , 2005 , 338, 133-43	3.6	14
28	Circumventing cellular immunity by miR142-mediated regulation sufficiently supports rAAV-delivered OVA expression without activating humoral immunity. <i>JCI Insight</i> , 2019 , 5,	9.9	14
27	A double-mimetic peptide efficiently neutralizes HIV-1 by bridging the CD4- and coreceptor-binding sites of gp120. <i>Journal of Virology</i> , 2014 , 88, 3353-8	6.6	13
26	CD4-Induced Antibodies Promote Association of the HIV-1 Envelope Glycoprotein with CD4-Binding Site Antibodies. <i>Journal of Virology</i> , 2016 , 90, 7822-32	6.6	13
25	Severe Acute Respiratory Syndrome Coronavirus Entry as a Target of Antiviral Therapies. <i>Antiviral Therapy</i> , 2007 , 12, 639-650	1.6	12
24	How SARS-CoV-2 first adapted in humans. <i>Science</i> , 2021 , 372, 466-467	33.3	11
23	The SARS Coronavirus receptor ACE 2 A potential target for antiviral therapy 2006 , 397-418		11
22	Interactions between SARS coronavirus and its receptor. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 229-34	3.6	11
21	Investigating the mutational landscape of the SARS-CoV-2 Omicron variant via ab initio quantum mechanical modeling		10

20	Diverse pathways of escape from all well-characterized VRC01-class broadly neutralizing HIV-1 antibodies. <i>PLoS Pathogens</i> , 2018 , 14, e1007238	7.6	9
19	Direct expression and validation of phage-selected peptide variants in mammalian cells. <i>Journal of Biological Chemistry</i> , 2013 , 288, 18803-10	5.4	9
18	Hydroxychloroquine-mediated inhibition of SARS-CoV-2 entry is attenuated by TMPRSS2		8
17	JLK inhibitors: isocoumarin compounds as putative probes to selectively target the gamma-secretase pathway. <i>Current Alzheimer Research</i> , 2005 , 2, 327-34	3	6
16	An Engineered Receptor-Binding Domain Improves the Immunogenicity of Multivalent SARS-CoV-2 Vaccines. <i>MBio</i> , 2021 , 12,	7.8	6
15	A more efficient CRISPR-Cas12a variant derived from MA2020. <i>Molecular Therapy - Nucleic Acids</i> , 2021 , 24, 40-53	10.7	6
14	Identification of potent small molecule inhibitors of SARS-CoV-2 entry.. <i>SLAS Discovery</i> , 2021 ,	3.4	4
13	An engineered receptor-binding domain improves the immunogenicity of multivalent SARS-CoV-2 vaccines 2020 ,		4
12	Riboswitches for Controlled Expression of Therapeutic Transgenes Delivered by Adeno-Associated Viral Vectors. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	4
11	Simian Immunodeficiency Virus SIVmac239, but Not SIVmac316, Binds and Utilizes Human CD4 More Efficiently than Rhesus CD4. <i>Journal of Virology</i> , 2017 , 91,	6.6	3
10	Anticipating future SARS-CoV-2 variants of concern through ab initio quantum mechanical modeling		2
9	Selection of High-Affinity RNA Aptamers That Distinguish between Doxycycline and Tetracycline. <i>Biochemistry</i> , 2020 , 59, 3473-3486	3.2	2
8	Donor Anti-Spike Immunity is Related to Recipient Recovery and Can Predict the Efficacy of Convalescent Plasma Units 2021 ,		2
7	AAV vectors engineered to target insulin receptor greatly enhance intramuscular gene delivery. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 19, 496-506	6.4	1
6	Predicting the efficacy of COVID-19 convalescent plasma donor units with the Lumit Dx anti-receptor binding domain assay. <i>PLoS ONE</i> , 2021 , 16, e0253551	3.7	1
5	A Coreceptor-Mimetic Peptide Enhances the Potency of V3-Glycan Antibodies. <i>Journal of Virology</i> , 2019 , 93,	6.6	1
4	Identification of Potent Small Molecule Inhibitors of SARS-CoV-2 Entry		1
3	Angiotensin-Converting Enzyme 2, the Cellular Receptor for Severe Acute Respiratory Syndrome Coronavirus and Human Coronavirus NL63 2014 , 147-156		

- | | | |
|---|--|------|
| 2 | Estimation of the in vivo neutralization potency of eCD4Ig and conditions for AAV-mediated production for SHIV long-term remission.. <i>Science Advances</i> , 2022 , 8, eabj5666 | 14-3 |
| 1 | HIV-1 inhibitory properties of eCD4-Igmim2 determined using an Env-mediated membrane fusion assay. <i>PLoS ONE</i> , 2018 , 13, e0206365 | 3-7 |