

Hyeryun Choe

List of Publications by Year in descending order

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80
papers

25,449
citations

36303

51
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64796

79
g-index

84
all docs

84
docs citations

84
times ranked

27063
citing authors

#	ARTICLE	IF	CITATIONS
1	Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus. <i>Nature</i> , 2003, 426, 450-454.	27.8	5,168
2	The $\hat{\gamma}^2$ -Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates. <i>Cell</i> , 1996, 85, 1135-1148.	28.9	2,432
3	The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry. <i>Nature</i> , 1996, 382, 829-833.	27.8	1,958
4	Mechanisms of SARS-CoV-2 entry into cells. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 3-20.	37.0	1,532
5	CD4-induced interaction of primary HIV-1 gp120 glycoproteins with the chemokine receptor CCR-5. <i>Nature</i> , 1996, 384, 179-183.	27.8	1,224
6	CCR3 and CCR5 are co-receptors for HIV-1 infection of microglia. <i>Nature</i> , 1997, 385, 645-649.	27.8	945
7	Receptor and viral determinants of SARS-coronavirus adaptation to human ACE2. <i>EMBO Journal</i> , 2005, 24, 1634-1643.	7.8	892
8	SARS-CoV-2 spike-protein D614G mutation increases virion spike density and infectivity. <i>Nature Communications</i> , 2020, 11, 6013.	12.8	828
9	CCR5 Levels and Expression Pattern Correlate with Infectability by Macrophage-tropic HIV-1, <i>In Vitro</i> . <i>Journal of Experimental Medicine</i> , 1997, 185, 1681-1692.	8.5	728
10	Tyrosine Sulfation of the Amino Terminus of CCR5 Facilitates HIV-1 Entry. <i>Cell</i> , 1999, 96, 667-676.	28.9	658
11	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, 3197-3201.	3.4	618
12	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, 2536-2541.	7.1	543
13	Distinct Patterns of IFITM-Mediated Restriction of Filoviruses, SARS Coronavirus, and Influenza A Virus. <i>PLoS Pathogens</i> , 2011, 7, e1001258.	4.7	518
14	Transferrin receptor 1 is a cellular receptor for New World haemorrhagic fever arenaviruses. <i>Nature</i> , 2007, 446, 92-96.	27.8	374
15	SARS Coronavirus, but Not Human Coronavirus NL63, Utilizes Cathepsin L to Infect ACE2-expressing Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 3198-3203.	3.4	328
16	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, 405-411.	8.5	316
17	TIM-family Proteins Promote Infection of Multiple Enveloped Viruses through Virion-associated Phosphatidylserine. <i>PLoS Pathogens</i> , 2013, 9, e1003232.	4.7	288
18	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, 2706-2711.	7.1	278

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19	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.	14.3	267
20	Animal Origins of the Severe Acute Respiratory Syndrome Coronavirus: Insight from ACE2-S-Protein Interactions. <i>Journal of Virology</i> , 2006, 80, 4211-4219.	3.4	247
21	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, 10628-10635.	3.4	240
22	The Role of Post-translational Modifications of the CXCR4 Amino Terminus in Stromal-derived Factor 1 α Association and HIV-1 Entry. <i>Journal of Biological Chemistry</i> , 2002, 277, 29484-29489.	3.4	193
23	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, 6113-6118.	3.4	192
24	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, 1160-1164.	3.4	187
25	HIV-1 Entry and Macrophage Inflammatory Protein-1 β -mediated Signaling Are Independent Functions of the Chemokine Receptor CCR5. <i>Journal of Biological Chemistry</i> , 1997, 272, 6854-6857.	3.4	186
26	Tyrosine Sulfation of Human Antibodies Contributes to Recognition of the CCR5 Binding Region of HIV-1 gp120. <i>Cell</i> , 2003, 114, 161-170.	28.9	186
27	AXL-dependent infection of human fetal endothelial cells distinguishes Zika virus from other pathogenic flaviviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2024-2029.	7.1	177
28	Hydroxychloroquine-mediated inhibition of SARS-CoV-2 entry is attenuated by TMPRSS2. <i>PLoS Pathogens</i> , 2021, 17, e1009212.	4.7	167
29	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, 11429-11433.	3.4	164
30	Sialylated O-Glycans and Sulfated Tyrosines in the NH ₂ -Terminal Domain of CC Chemokine Receptor 5 Contribute to High Affinity Binding of Chemokines. <i>Journal of Experimental Medicine</i> , 2001, 194, 1661-1674.	8.5	147
31	Adaptation of a CCR5-Using, Primary Human Immunodeficiency Virus Type 1 Isolate for CD4-Independent Replication. <i>Journal of Virology</i> , 1999, 73, 8120-8126.	3.4	145
32	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, 33516-33521.	3.4	138
33	Protein evolution with an expanded genetic code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17688-17693.	7.1	138
34	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, 1413-1422.	2.5	136
35	Influenza A Virus Neuraminidase Limits Viral Superinfection. <i>Journal of Virology</i> , 2008, 82, 4834-4843.	3.4	130
36	Structural basis for receptor recognition by New World hemorrhagic fever arenaviruses. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 438-444.	8.2	125

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37	CD4-Independent Binding of SIV gp120 to Rhesus CCR5. <i>Science</i> , 1997, 278, 1470-1473.	12.6	123
38	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, 14682-14687.	7.1	120
39	Dual Host-Virus Arms Races Shape an Essential Housekeeping Protein. <i>PLoS Biology</i> , 2013, 11, e1001571.	5.6	116
40	Conserved Receptor-binding Domains of Lake Victoria Marburgvirus and Zaire Ebolavirus Bind a Common Receptor. <i>Journal of Biological Chemistry</i> , 2006, 281, 15951-15958.	3.4	115
41	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, 2664-2669.	7.1	112
42	Mapping binding residues in the Plasmodium vivax domain that binds Duffy antigen during red cell invasion. <i>Molecular Microbiology</i> , 2005, 55, 1423-1434.	2.5	104
43	Mutations derived from horseshoe bat ACE2 orthologs enhance ACE2-Fc neutralization of SARS-CoV-2. <i>PLoS Pathogens</i> , 2021, 17, e1009501.	4.7	97
44	Host-Species Transferrin Receptor 1 Orthologs Are Cellular Receptors for Nonpathogenic New World Clade B Arenaviruses. <i>PLoS Pathogens</i> , 2009, 5, e1000358.	4.7	96
45	Ebselen, a Small-Molecule Capsid Inhibitor of HIV-1 Replication. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2195-2208.	3.2	91
46	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, 11972-11976.	3.4	87
47	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, 1059-1066.	8.5	83
48	Zika virus infection during the period of maximal brain growth causes microcephaly and corticospinal neuron apoptosis in wild type mice. <i>Scientific Reports</i> , 2016, 6, 34793.	3.3	80
49	Functional importance of the D614G mutation in the SARS-CoV-2 spike protein. <i>Biochemical and Biophysical Research Communications</i> , 2021, 538, 108-115.	2.1	79
50	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, 7620-7625.	3.4	70
51	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, 28529-28535.	3.4	58
52	Tyrosine-sulfated Peptides Functionally Reconstitute a CCR5 Variant Lacking a Critical Amino-terminal Region. <i>Journal of Biological Chemistry</i> , 2002, 277, 40397-40402.	3.4	54
53	Structural interactions between chemokine receptors, gp120 Env and CD4. <i>Seminars in Immunology</i> , 1998, 10, 249-257.	5.6	53
54	Ontogeny of the B- and T-cell response in a primary Zika virus infection of a dengue-naïve individual during the 2016 outbreak in Miami, FL. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0006000.	3.0	48

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55	Sulfation of Tyrosine 174 in the Human C3a Receptor Is Essential for Binding of C3a Anaphylatoxin. <i>Journal of Biological Chemistry</i> , 2003, 278, 37902-37908.	3.4	47
56	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, 4024-4028.	3.4	47
57	Transferrin receptor 1 in the zoonosis and pathogenesis of New World hemorrhagic fever arenaviruses. <i>Current Opinion in Microbiology</i> , 2011, 14, 476-482.	5.1	46
58	Chapter 7 Tyrosine Sulfation of HIV-1 Coreceptors and Other Chemokine Receptors. <i>Methods in Enzymology</i> , 2009, 461, 147-170.	1.0	31
59	Human and Host Species Transferrin Receptor 1 Use by North American Arenaviruses. <i>Journal of Virology</i> , 2014, 88, 9418-9428.	3.4	31
60	Zika Virus-Immune Plasmas from Symptomatic and Asymptomatic Individuals Enhance Zika Pathogenesis in Adult and Pregnant Mice. <i>MBio</i> , 2019, 10, .	4.1	30
61	Novel Arenavirus Entry Inhibitors Discovered by Using a Minigenome Rescue System for High-Throughput Drug Screening. <i>Journal of Virology</i> , 2015, 89, 8428-8443.	3.4	27
62	Enhanced Recognition and Neutralization of HIV-1 by Antibody-Derived CCR5-Mimetic Peptide Variants. <i>Journal of Virology</i> , 2012, 86, 12417-12421.	3.4	24
63	Use of Murine CXCR-4 as a Second Receptor by Some T-Cell-Tropic Human Immunodeficiency Viruses. <i>Journal of Virology</i> , 1998, 72, 1652-1656.	3.4	23
64	A New World Primate Deficient in Tetherin-Mediated Restriction of Human Immunodeficiency Virus Type 1. <i>Journal of Virology</i> , 2009, 83, 8771-8780.	3.4	21
65	How SARS-CoV-2 first adapted in humans. <i>Science</i> , 2021, 372, 466-467.	12.6	21
66	SARS-CoV, But not HCoV-NL63, Utilizes Cathepsins to Infect Cells: Viral Entry. <i>Advances in Experimental Medicine and Biology</i> , 2006, 581, 335-338.	1.6	21
67	An Engineered Receptor-Binding Domain Improves the Immunogenicity of Multivalent SARS-CoV-2 Vaccines. <i>MBio</i> , 2021, 12, .	4.1	20
68	Insights from the Association of SARS-CoV S-Protein with its Receptor, ACE2. <i>Advances in Experimental Medicine and Biology</i> , 2006, 581, 209-218.	1.6	20
69	Phosphatidylethanolamine and Phosphatidylserine Synergize To Enhance GAS6/AXL-Mediated Virus Infection and Efferocytosis. <i>Journal of Virology</i> , 2020, 95, .	3.4	19
70	Transferrin receptor 1 is a cellular receptor for human heme-albumin. <i>Communications Biology</i> , 2020, 3, 621.	4.4	19
71	A Tyrosine-Sulfated CCR5-Mimetic Peptide Promotes Conformational Transitions in the HIV-1 Envelope Glycoprotein. <i>Journal of Virology</i> , 2011, 85, 7563-7571.	3.4	18
72	Diverse pathways of escape from all well-characterized VRC01-class broadly neutralizing HIV-1 antibodies. <i>PLoS Pathogens</i> , 2018, 14, e1007238.	4.7	18

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73	Severe Acute Respiratory Syndrome Coronavirus Entry as a Target of Antiviral Therapies. Antiviral Therapy, 2007, 12, 639-650.	1.0	17
74	Clinical Antiviral Drug Arbidol Inhibits Infection by SARS-CoV-2 and Variants through Direct Binding to the Spike Protein. ACS Chemical Biology, 2021, 16, 2845-2851.	3.4	16
75	Chemokine receptors in HIV-1 and SIV infection. Archives of Pharmacal Research, 1998, 21, 634-639.	6.3	14
76	Label-free pathogen detection by a deoxyribozyme cascade with visual signal readout. Sensors and Actuators B: Chemical, 2019, 282, 945-951.	7.8	14
77	AAV vectors engineered to target insulin receptor greatly enhance intramuscular gene delivery. Molecular Therapy - Methods and Clinical Development, 2020, 19, 496-506.	4.1	8
78	Tyrosine sulfate trapped by amber. Nature Biotechnology, 2006, 24, 1361-1362.	17.5	4
79	Angiotensin-Converting Enzyme 2, the Cellular Receptor for Severe Acute Respiratory Syndrome Coronavirus and Human Coronavirus NL63. , 0, , 147-156.		1
80	Reply to Marques and Drexler, "Complex Scenario of Homotypic and Heterotypic Zika Virus Immune Enhancement" MBio, 2019, 10, .	4.1	1