

Matthias G Pauthner

List of Publications by Citations

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

42
papers

2,503
citations

21
h-index

48
g-index

48
ext. papers

3,282
ext. citations

16.8
avg, IF

4.21
L-index

#	Paper	IF	Citations
42	HIV-1 VACCINES. Priming a broadly neutralizing antibody response to HIV-1 using a germline-targeting immunogen. <i>Science</i> , 2015 , 349, 156-61	33.3	264
41	Recombinant HIV envelope trimer selects for quaternary-dependent antibodies targeting the trimer apex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17624-9	11.5	239
40	Elicitation of Robust Tier 2 Neutralizing Antibody Responses in Nonhuman Primates by HIV Envelope Trimer Immunization Using Optimized Approaches. <i>Immunity</i> , 2017 , 46, 1073-1088.e6	32.3	204
39	Holes in the Glycan Shield of the Native HIV Envelope Are a Target of Trimer-Elicited Neutralizing Antibodies. <i>Cell Reports</i> , 2016 , 16, 2327-38	10.6	163
38	A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic EHairpin Structure. <i>Immunity</i> , 2017 , 46, 690-702	32.3	146
37	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. <i>Cell</i> , 2019 , 177, 1153-1171.e28	56.2	143
36	Global site-specific N-glycosylation analysis of HIV envelope glycoprotein. <i>Nature Communications</i> , 2017 , 8, 14954	17.4	133
35	Direct Probing of Germinal Center Responses Reveals Immunological Features and Bottlenecks for Neutralizing Antibody Responses to HIV Env Trimer. <i>Cell Reports</i> , 2016 , 17, 2195-2209	10.6	110
34	Electron-Microscopy-Based Epitope Mapping Defines Specificities of Polyclonal Antibodies Elicited during HIV-1 BG505 Envelope Trimer Immunization. <i>Immunity</i> , 2018 , 49, 288-300.e8	32.3	110
33	Priming HIV-1 broadly neutralizing antibody precursors in human Ig loci transgenic mice. <i>Science</i> , 2016 , 353, 1557-1560	33.3	106
32	An HIV-1 antibody from an elite neutralizer implicates the fusion peptide as a site of vulnerability. <i>Nature Microbiology</i> , 2016 , 2, 16199	26.6	103
31	A Prominent Site of Antibody Vulnerability on HIV Envelope Incorporates a Motif Associated with CCR5 Binding and Its Camouflaging Glycans. <i>Immunity</i> , 2016 , 45, 31-45	32.3	97
30	Structure-based design of native-like HIV-1 envelope trimers to silence non-neutralizing epitopes and eliminate CD4 binding. <i>Nature Communications</i> , 2017 , 8, 1655	17.4	96
29	Vaccine-Induced Protection from Homologous Tier 2 SHIV Challenge in Nonhuman Primates Depends on Serum-Neutralizing Antibody Titers. <i>Immunity</i> , 2019 , 50, 241-252.e6	32.3	96
28	Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. <i>Nature Communications</i> , 2018 , 9, 3693	17.4	87
27	Minimally Mutated HIV-1 Broadly Neutralizing Antibodies to Guide Reductionist Vaccine Design. <i>PLoS Pathogens</i> , 2016 , 12, e1005815	7.6	76
26	CodY orchestrates the expression of virulence determinants in emetic <i>Bacillus cereus</i> by impacting key regulatory circuits. <i>Molecular Microbiology</i> , 2012 , 85, 67-88	4.1	54

25	A Meta-analysis of Passive Immunization Studies Shows that Serum-Neutralizing Antibody Titer Associates with Protection against SHIV Challenge. <i>Cell Host and Microbe</i> , 2019 , 26, 336-346.e3	23.4	43
24	Global site-specific analysis of glycoprotein N-glycan processing. <i>Nature Protocols</i> , 2018 , 13, 1196-1212	18.8	40
23	Autologous Antibody Responses to an HIV Envelope Glycan Hole Are Not Easily Broadened in Rabbits. <i>Journal of Virology</i> , 2020 , 94,	6.6	24
22	Infection of monkeys by simian-human immunodeficiency viruses with transmitted/founder clade C HIV-1 envelopes. <i>Virology</i> , 2015 , 475, 37-45	3.6	21
21	The Chimpanzee SIV Envelope Trimer: Structure and Deployment as an HIV Vaccine Template. <i>Cell Reports</i> , 2019 , 27, 2426-2441.e6	10.6	20
20	Vaccine-induced immune responses against both Gag and Env improve control of simian immunodeficiency virus replication in rectally challenged rhesus macaques. <i>PLoS Pathogens</i> , 2017 , 13, e1006529	7.6	16
19	Ebola Virus Transmission Initiated by Relapse of Systemic Ebola Virus Disease. <i>New England Journal of Medicine</i> , 2021 , 384, 1240-1247	59.2	16
18	Mapping Neutralizing Antibody Epitope Specificities to an HIV Env Trimer in Immunized and in Infected Rhesus Macaques. <i>Cell Reports</i> , 2020 , 32, 108122	10.6	12
17	HIV envelope trimer-elicited autologous neutralizing antibodies bind a region overlapping the N332 glycan supersite. <i>Science Advances</i> , 2020 , 6, eaba0512	14.3	10
16	Rhesus Macaques Vaccinated with , , and Manifest Early Control of SIVmac239 Replication. <i>Journal of Virology</i> , 2018 , 92,	6.6	9
15	Antibody Engineering & Therapeutics, the annual meeting of The Antibody Society December 7-10, 2015, San Diego, CA, USA. <i>MAbs</i> , 2016 , 8, 617-52	6.6	7
14	A Fc engineering approach to define functional humoral correlates of immunity against Ebola virus. <i>Immunity</i> , 2021 , 54, 815-828.e5	32.3	7
13	Slow delivery immunization enhances HIV neutralizing antibody and germinal center responses via modulation of immunodominance		4
12	A Recombinant HIV Envelope Trimer Selects for Quaternary Dependent Antibodies Targeting the Trimer Apex. <i>AIDS Research and Human Retroviruses</i> , 2014 , 30, A7-A8	1.6	3
11	Rectal Acquisition of Simian Immunodeficiency Virus (SIV) SIVmac239 Infection despite Vaccine-Induced Immune Responses against the Entire SIV Proteome. <i>Journal of Virology</i> , 2020 , 94,	6.6	3
10	Integration of genomic sequencing into the response to the Ebola virus outbreak in Nord Kivu, Democratic Republic of the Congo. <i>Nature Medicine</i> , 2021 , 27, 710-716	50.5	3
9	Harnessing Activin A Adjuvanticity to Promote Antibody Responses to BG505 HIV Envelope Trimers. <i>Frontiers in Immunology</i> , 2020 , 11, 1213	8.4	2
8	Induction of Transient Virus Replication Facilitates Antigen-Independent Isolation of SIV-Specific Monoclonal Antibodies. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 16, 225-237	6.4	2

7	Lassa Virus Genetics. <i>Current Topics in Microbiology and Immunology</i> , 2020 , 1	3-3	1
6	Vaccine-induced protection from homologous Tier 2 simian-human immunodeficiency virus challenge in nonhuman primates		1
5	Chimpanzee SIV Envelope trimer: structure and deployment as an HIV vaccine template		1
4	Neutralizing antibody responses to an HIV envelope glycan hole are not easily broadened		1
3	Mapping Neutralizing Antibody Epitope Specificities to an HIV Env Trimer in Immunized and in Infected Rhesus Macaques. <i>SSRN Electronic Journal</i> ,	1	1
2	HIV Envelope Trimer-Elicited Autologous Neutralizing Antibodies Bind a Region Overlapping the N332 Glycan Supersite		1
1	Broadly Neutralizing Antibodies to Highly Antigenically Variable Viruses as Templates for Vaccine Design. <i>Current Topics in Microbiology and Immunology</i> , 2020 , 428, 31-87	3-3	