Alexander Ploss

List of Publications by Year
in descending order

96 papers	8,400 citations	57758 44 h-index	46799 89 g-index
98 all docs	98 docs citations	98 times ranked	11365 citing authors

#	Article	IF	Citations
1	Human occludin is a hepatitis C virus entry factor required for infection of mouse cells. Nature, 2009, 457, 882-886.	27.8	813
2	HIV therapy by a combination of broadly neutralizing antibodies in humanized mice. Nature, 2012, 492, 118-122.	27.8	463
3	Decoding type I and III interferon signalling during viral infection. Nature Microbiology, 2019, 4, 914-924.	13.3	353
4	A genetically humanized mouse model for hepatitis C virus infection. Nature, 2011, 474, 208-211.	27.8	331
5	Human broadly neutralizing antibodies to the envelope glycoprotein complex of hepatitis C virus. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6205-6210.	7.1	306
6	The Yellow Fever Virus Vaccine Induces a Broad and Polyfunctional Human Memory CD8+ T Cell Response. Journal of Immunology, 2009, 183, 7919-7930.	0.8	296
7	Priming of protective T cell responses against virus-induced tumors in mice with human immune system components. Journal of Experimental Medicine, 2009, 206, 1423-1434.	8.5	269
8	Development of human CD4+FoxP3+ regulatory T cells in human stem cell factorâ€", granulocyte-macrophage colony-stimulating factorâ€", and interleukin-3â€"expressing NOD-SCID IL2RÎ³null humanized mice. Blood, 2011, 117, 3076-3086.	1.4	267
9	AAV-expressed eCD4-Ig provides durable protection from multiple SHIV challenges. Nature, 2015, 519, 87-91.	27.8	265
10	HIV-1 suppression and durable control by combining single broadly neutralizing antibodies and antiretroviral drugs in humanized mice. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16538-16543.	7.1	247
11	Real-time imaging of hepatitis C virus infection using a fluorescent cell-based reporter system. Nature Biotechnology, 2010, 28, 167-171.	17.5	235
12	Completion of the entire hepatitis C virus life cycle in genetically humanized mice. Nature, 2013, 501, 237-241.	27.8	205
13	Broadly neutralizing antibodies abrogate established hepatitis C virus infection. Science Translational Medicine, 2014, 6, 254ra129.	12.4	204
14	Humanized Mice for Modeling Human Infectious Disease: Challenges, Progress, and Outlook. Cell Host and Microbe, 2009, 6, 5-9.	11.0	202
15	Complete Plasmodium falciparum liver-stage development in liver-chimeric mice. Journal of Clinical Investigation, 2012, 122, 3618-3628.	8.2	200
16	Modeling hepatitis C virus infection using human induced pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2544-2548.	7.1	197
17	Persistent hepatitis C virus infection in microscale primary human hepatocyte cultures. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3141-3145.	7.1	187
18	Hepatitis E virus ORF3 is a functional ion channel required for release of infectious particles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1147-1152.	7.1	171

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19	Dengue reporter viruses reveal viral dynamics in interferon receptor-deficient mice and sensitivity to interferon effectors in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14610-14615.	7.1	166
20	SARS-CoV-2 requires cholesterol for viral entry and pathological syncytia formation. ELife, 2021, 10, .	6.0	160
21	Hepatitis C virus induces interferon-Î» and interferon-stimulated genes in primary liver cultures. Hepatology, 2011, 54, 1913-1923.	7.3	157
22	Turmeric curcumin inhibits entry of all hepatitis C virus genotypes into human liver cells. Gut, 2014, 63, 1137-1149.	12.1	148
23	Species-specific disruption of STING-dependent antiviral cellular defenses by the Zika virus NS2B3 protease. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6310-E6318.	7.1	137
24	Inflammatory Flt3l is essential to mobilize dendritic cells and for T cell responses during Plasmodium infection. Nature Medicine, 2013, 19, 730-738.	30.7	134
25	Yellow Fever Virus: Knowledge Gaps Impeding the Fight Against an Old Foe. Trends in Microbiology, 2018, 26, 913-928.	7.7	123
26	Interferon Lambda Alleles Predict Innate Antiviral Immune Responses and Hepatitis C Virus Permissiveness. Cell Host and Microbe, 2014, 15, 190-202.	11.0	94
27	Expression of paramyxovirus V proteins promotes replication and spread of hepatitis C virus in cultures of primary human fetal liver cells. Hepatology, 2011, 54, 1901-1912.	7.3	80
28	Hepatitis C virus host cell entry. Current Opinion in Virology, 2012, 2, 14-19.	5.4	79
29	A mouse model for HIV-1 entry. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15859-15864.	7.1	75
30	The Impact of Hepatitis C Virus Entry on Viral Tropism. Cell Host and Microbe, 2014, 16, 562-568.	11.0	74
31	Core components of DNA lagging strand synthesis machinery are essential for hepatitis B virus cccDNA formation. Nature Microbiology, 2020, 5, 715-726.	13.3	70
32	Towards a small animal model for hepatitis C. EMBO Reports, 2009, 10, 1220-1227.	4.5	69
33	Altered Glycosylation Patterns Increase Immunogenicity of a Subunit Hepatitis C Virus Vaccine, Inducing Neutralizing Antibodies Which Confer Protection in Mice. Journal of Virology, 2016, 90, 10486-10498.	3.4	68
34	Immunogenicity of a Meningococcal B Vaccine during a University Outbreak. New England Journal of Medicine, 2016, 375, 220-228.	27.0	67
35	Characterization of Human Antiviral Adaptive Immune Responses during Hepatotropic Virus Infection in HLA-Transgenic Human Immune System Mice. Journal of Immunology, 2013, 191, 1753-1764.	0.8	64
36	Flunarizine prevents hepatitis C virus membrane fusion in a genotypeâ€dependent manner by targeting the potential fusion peptide within E1. Hepatology, 2016, 63, 49-62.	7.3	64

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37	Long-term hepatitis B infection in a scalable hepatic co-culture system. Nature Communications, 2017, 8, 125.	12.8	58
38	Development of humanized mouse models to study human malaria parasite infection. Future Microbiology, 2012, 7, 657-665.	2.0	54
39	Hepatitis B virus cccDNA is formed through distinct repair processes of each strand. Nature Communications, 2021, 12, 1591.	12.8	53
40	Selection of the highly replicative and partially multidrug resistant rtS78T HBV polymerase mutation during TDF-ETV combination therapy. Journal of Hepatology, 2017, 67, 246-254.	3.7	52
41	Type III Interferon-Mediated Signaling Is Critical for Controlling Live Attenuated Yellow Fever Virus Infection <i>In Vivo</i>. MBio, 2017, 8, .	4.1	52
42	Utility of Humanized BLT Mice for Analysis of Dengue Virus Infection and Antiviral Drug Testing. Journal of Virology, 2014, 88, 2205-2218.	3.4	51
43	Pathogen-Specific CD8 T Cell Responses Are Directly Inhibited by IL-10. Journal of Immunology, 2007, 179, 4520-4528.	0.8	47
44	Hepatocarcinogenesis associated with hepatitis B, delta and C viruses. Current Opinion in Virology, 2016, 20, 1-10.	5.4	47
45	New horizons for studying human hepatotropic infections. Journal of Clinical Investigation, 2010, 120, 650-653.	8.2	46
46	Personalized Medicine Approaches in Prostate Cancer Employing Patient Derived 3D Organoids and Humanized Mice. Frontiers in Cell and Developmental Biology, 2016, 4, 64.	3.7	45
47	Î¼Map-Red: Proximity Labeling by Red Light Photocatalysis. Journal of the American Chemical Society, 2022, 144, 6154-6162.	13.7	42
48	Hepatitis E Virus Replication. Viruses, 2019, 11, 719.	3.3	40
49	C7L Family of Poxvirus Host Range Genes Inhibits Antiviral Activities Induced by Type I Interferons and Interferon Regulatory Factor 1. Journal of Virology, 2012, 86, 4538-4547.	3.4	39
50	Selective expansion of myeloid and NK cells in humanized mice yields human-like vaccine responses. Nature Communications, 2018, 9, 5031.	12.8	39
51	Genetic Dissection of the Host Tropism of Human-Tropic Pathogens. Annual Review of Genetics, 2015, 49, 21-45.	7.6	35
52	Identification of the Intragenomic Promoter Controlling Hepatitis E Virus Subgenomic RNA Transcription. MBio, 2018, 9, .	4.1	35
53	Preclinical assessment of antiviral combination therapy in a genetically humanized mouse model for hepatitis delta virus infection. Science Translational Medicine, 2018, 10, .	12.4	34
54	Splicing Diversity of the Human <i>OCLN</i> Gene and Its Biological Significance for Hepatitis C Virus Entry. Journal of Virology, 2010, 84, 6987-6994.	3.4	33

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55	Analysis of Host Responses to Hepatitis B and Delta Viral Infections in a Microâ€scalable Hepatic Coâ€culture System. Hepatology, 2020, 71, 14-30.	7.3	31
56	Murine models of hepatitis C: What can we look forward to?. Antiviral Research, 2014, 104, 15-22.	4.1	27
57	Modeling malaria in humanized mice: opportunities and challenges. Annals of the New York Academy of Sciences, 2015, 1342, 29-36.	3.8	27
58	The use of humanized mice for studies of viral pathogenesis and immunity. Current Opinion in Virology, 2018, 29, 62-71.	5.4	27
59	Antibody and Antiretroviral Preexposure Prophylaxis Prevent Cervicovaginal HIV-1 Infection in a Transgenic Mouse Model. Journal of Virology, 2013, 87, 8535-8544.	3.4	24
60	Determinants of hepatitis B and delta virus host tropism. Current Opinion in Virology, 2015, 13, 109-116.	5.4	23
61	Liver-expressed <i>Cd302</i> and <i>Cr1l</i> limit hepatitis C virus cross-species transmission to mice. Science Advances, 2020, 6, .	10.3	23
62	Insufficient interleukinâ€12 signalling favours differentiation of human CD4⁺ and <scp>CD</scp>8⁺ T cells into <scp>GATA</scp>â€3⁺ and <scp>GATA</scp>â€3⁺ÂTâ€bet⁺ subsets in humanized mice. Immunology, 2014, 143, 202-218.	4.4	22
63	Hepatitis C virus infects rhesus macaque hepatocytes and simianized mice. Hepatology, 2015, 62, 57-67.	7.3	22
64	<i>In vivo</i> models of hepatitis B and C virus infection. FEBS Letters, 2016, 590, 1987-1999.	2.8	22
65	Mice Expressing Minimally Humanized CD81 and Occludin Genes Support Hepatitis C Virus Uptake <i>In Vivo</i>. Journal of Virology, 2017, 91, .	3.4	22
66	A protein coevolution method uncovers critical features of the Hepatitis C Virus fusion mechanism. PLoS Pathogens, 2018, 14, e1006908.	4.7	20
67	Advances and challenges in studying hepatitis C virus in its native environment. Expert Review of Gastroenterology and Hepatology, 2010, 4, 541-550.	3.0	19
68	Dramatic Potentiation of the Antiviral Activity of HIV Antibodies by Cholesterol Conjugation. Journal of Biological Chemistry, 2014, 289, 35015-35028.	3.4	17
69	Study of viral pathogenesis in humanized mice. Current Opinion in Virology, 2015, 11, 14-20.	5.4	16
70	Recapitulation of treatment response patterns in a novel humanized mouse model for chronic hepatitis B virus infection. Virology, 2017, 502, 63-72.	2.4	16
71	Visualizing hepatitis C virus infection in humanized mice. Journal of Immunological Methods, 2014, 410, 50-59.	1.4	15
72	Identification, Molecular Cloning, and Analysis of Full-Length Hepatitis C Virus Transmitted/Founder Genotypes 1, 3, and 4. MBio, 2015, 6, e02518.	4.1	15

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73	Isocotoin suppresses hepatitis E virus replication through inhibition of heat shock protein 90. Antiviral Research, 2021, 185, 104997.	4.1	15
74	Humanized mice reveal a macrophage-enriched gene signature defining human lung tissue protection during SARS-CoV-2 infection. Cell Reports, 2022, 39, 110714.	6.4	14
75	Expanding the Host Range of Hepatitis C Virus through Viral Adaptation. MBio, 2016, 7, .	4.1	13
76	Hepatitis C virus vaccines in the era of new direct-acting antivirals. Expert Review of Gastroenterology and Hepatology, 2013, 7, 171-185.	3.0	12
77	Woolly Monkeyâ€"HBV Infection in Squirrel Monkeys as a Surrogate Nonhuman Primate Model of HBV Infection. Hepatology Communications, 2020, 4, 371-386.	4.3	11
78	Long-term hepatitis B virus infection of rhesus macaques requires suppression of host immunity. Nature Communications, 2022, 13, .	12.8	11
79	Differences across cyclophilin A orthologs contribute to the host range restriction of hepatitis C virus. ELife, 2019, 8, .	6.0	10
80	Small Animal Models for Human Immunodeficiency Virus (HIV), Hepatitis B, and Tuberculosis: Proceedings of an NIAID Workshop. Current HIV Research, 2020, 18, 19-28.	0.5	9
81	Induction of broadly neutralizing antibodies using a secreted form of the hepatitis C virus E1E2 heterodimer as a vaccine candidate. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112008119.	7.1	7
82	Proteomic approaches to analyzing hepatitis C virus biology. Proteomics, 2015, 15, 2051-2065.	2.2	6
83	Conservation of cell-intrinsic immune responses in diverse nonhuman primate species. Life Science Alliance, 2019, 2, e201900495.	2.8	6
84	Conversion of hepatitis B virus relaxed circular to covalently closed circular DNA is supported in murine cells. JHEP Reports, 2022, 4, 100534.	4.9	6
85	Evaluation of combination therapy against hepatitis C virus infection in human liver chimeric mice. Journal of Hepatology, 2011, 54, 848-850.	3.7	5
86	Deconstructing hepatitis C virus infection in humanized mice. Annals of the New York Academy of Sciences, 2011, 1245, 59-62.	3.8	5
87	Mouse models for human infectious diseases. Journal of Immunological Methods, 2014, 410, 1-2.	1.4	5
88	Master of Disguise: Hepatitis Delta Virus Packaging and Spread Facilitated by Diverse Viral Envelope Proteins. Hepatology, 2020, 71, 380-382.	7.3	5
89	Mathematical modeling suggests that entry-inhibitor bulevirtide may interfere with hepatitis D virus clearance from circulation. Journal of Hepatology, 2022, 76, 1229-1231.	3.7	5
90	Animal Models for Hepatitis B: Does the Supply Meet the Demand?. Gastroenterology, 2021, 160, 1437-1442.	1.3	4

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91	Generation of Human Liver Chimeric Mice for the Study of Human Hepatotropic Pathogens. Methods in Molecular Biology, 2016, 1438, 79-101.	0.9	3
92	Identification of Plasmodium falciparum proteoforms from liver stage models. Malaria Journal, 2020, 19, 10.	2.3	2
93	Novel Biomarkers Associated With the Outcome of Interferon-Based Hepatitis C Virus Therapy. Cellular and Molecular Gastroenterology and Hepatology, 2015, 1, 257-258.	4.5	1
94	A porcine model for chronic hepatitis E. Hepatology, 2018, 67, 787-790.	7.3	1
95	Editorial overview: Progress and challenges in modeling human viral diseases in vivo. Current Opinion in Virology, 2015, 13, v-vii.	5.4	0
96	Rise above the stressâ€"Endoplasmic reticulum stress and autophagy enhance the release of hepatitis B virus subparticles. Hepatology, 2022, 75, 248-251.	7.3	0