

Theodore C Pierson

List of Publications by Year in descending order

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82
papers

10,005
citations

44069

48
h-index

54911

84
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85
all docs

85
docs citations

85
times ranked

9287
citing authors

#	ARTICLE	IF	CITATIONS
1	Zika virus protection by a single low-dose nucleoside-modified mRNA vaccination. <i>Nature</i> , 2017, 543, 248-251.	27.8	699
2	The 3.8 Å... resolution cryo-EM structure of Zika virus. <i>Science</i> , 2016, 352, 467-470.	12.6	643
3	Modified mRNA Vaccines Protect against Zika Virus Infection. <i>Cell</i> , 2017, 168, 1114-1125.e10.	28.9	633
4	The continued threat of emerging flaviviruses. <i>Nature Microbiology</i> , 2020, 5, 796-812.	13.3	520
5	Rapid development of a DNA vaccine for Zika virus. <i>Science</i> , 2016, 354, 237-240.	12.6	348
6	Structural Basis of Zika Virus-Specific Antibody Protection. <i>Cell</i> , 2016, 166, 1016-1027.	28.9	325
7	The emergence of Zika virus and its new clinical syndromes. <i>Nature</i> , 2018, 560, 573-581.	27.8	303
8	West Nile Virus Discriminates between DC-SIGN and DC-SIGNR for Cellular Attachment and Infection. <i>Journal of Virology</i> , 2006, 80, 1290-1301.	3.4	292
9	Antibody Recognition and Neutralization Determinants on Domains I and II of West Nile Virus Envelope Protein. <i>Journal of Virology</i> , 2006, 80, 12149-12159.	3.4	272
10	The Stoichiometry of Antibody-Mediated Neutralization and Enhancement of West Nile Virus Infection. <i>Cell Host and Microbe</i> , 2007, 1, 135-145.	11.0	262
11	Structural Insights into the Mechanisms of Antibody-Mediated Neutralization of Flavivirus Infection: Implications for Vaccine Development. <i>Cell Host and Microbe</i> , 2008, 4, 229-238.	11.0	249
12	Safety, tolerability, and immunogenicity of two Zika virus DNA vaccine candidates in healthy adults: randomised, open-label, phase 1 clinical trials. <i>Lancet</i> , 2018, 391, 552-562.	13.7	235
13	Vaccine Mediated Protection Against Zika Virus-Induced Congenital Disease. <i>Cell</i> , 2017, 170, 273-283.e12.	28.9	224
14	Molecular Insight into Dengue Virus Pathogenesis and Its Implications for Disease Control. <i>Cell</i> , 2015, 162, 488-492.	28.9	219
15	Degrees of maturity: the complex structure and biology of flaviviruses. <i>Current Opinion in Virology</i> , 2012, 2, 168-175.	5.4	199
16	A rapid and quantitative assay for measuring antibody-mediated neutralization of West Nile virus infection. <i>Virology</i> , 2006, 346, 53-65.	2.4	197
17	Broadly Neutralizing Activity of Zika Virus-Immune Sera Identifies a Single Viral Serotype. <i>Cell Reports</i> , 2016, 16, 1485-1491.	6.4	190
18	A West Nile Virus DNA Vaccine Induces Neutralizing Antibody in Healthy Adults during a Phase 1 Clinical Trial. <i>Journal of Infectious Diseases</i> , 2007, 196, 1732-1740.	4.0	175

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19	Antibody-mediated neutralization of flaviviruses: A reductionist view. <i>Virology</i> , 2011, 411, 306-315.	2.4	170
20	Maturation of West Nile Virus Modulates Sensitivity to Antibody-Mediated Neutralization. <i>PLoS Pathogens</i> , 2008, 4, e1000060.	4.7	158
21	Induction of Epitope-Specific Neutralizing Antibodies against West Nile Virus. <i>Journal of Virology</i> , 2007, 81, 11828-11839.	3.4	157
22	Molecular mechanisms of antibody-mediated neutralisation of flavivirus infection. <i>Expert Reviews in Molecular Medicine</i> , 2008, 10, e12.	3.9	146
23	A West Nile Virus DNA Vaccine Utilizing a Modified Promoter Induces Neutralizing Antibody in Younger and Older Healthy Adults in a Phase I Clinical Trial. <i>Journal of Infectious Diseases</i> , 2011, 203, 1396-1404.	4.0	138
24	A Dynamic Landscape for Antibody Binding Modulates Antibody-Mediated Neutralization of West Nile Virus. <i>PLoS Pathogens</i> , 2011, 7, e1002111.	4.7	134
25	Flaviviruses: braking the entering. <i>Current Opinion in Virology</i> , 2013, 3, 3-12.	5.4	127
26	A single-dose live-attenuated vaccine prevents Zika virus pregnancy transmission and testis damage. <i>Nature Communications</i> , 2017, 8, 676.	12.8	125
27	Complement Protein C1q Inhibits Antibody-Dependent Enhancement of Flavivirus Infection in an IgG Subclass-Specific Manner. <i>Cell Host and Microbe</i> , 2007, 2, 417-426.	11.0	113
28	Zika Virus: Immunity and Vaccine Development. <i>Cell</i> , 2016, 167, 625-631.	28.9	113
29	Poorly Neutralizing Cross-Reactive Antibodies against the Fusion Loop of West Nile Virus Envelope Protein Protect <i>In Vivo</i> via Fcγ3 Receptor and Complement-Dependent Effector Mechanisms. <i>Journal of Virology</i> , 2011, 85, 11567-11580.	3.4	110
30	Temperature-dependent production of pseudoinfectious dengue reporter virus particles by complementation. <i>Virology</i> , 2008, 381, 67-74.	2.4	107
31	Structural Basis of Differential Neutralization of DENV-1 Genotypes by an Antibody that Recognizes a Cryptic Epitope. <i>PLoS Pathogens</i> , 2012, 8, e1002930.	4.7	103
32	Shake, rattle, and roll: Impact of the dynamics of flavivirus particles on their interactions with the host. <i>Virology</i> , 2015, 479-480, 508-517.	2.4	103
33	The Location of Asparagine-linked Glycans on West Nile Virions Controls Their Interactions with CD209 (Dendritic Cell-specific ICAM-3 Grabbing Nonintegrin). <i>Journal of Biological Chemistry</i> , 2006, 281, 37183-37194.	3.4	98
34	Human Monoclonal Antibodies against West Nile Virus Induced by Natural Infection Neutralize at a Postattachment Step. <i>Journal of Virology</i> , 2009, 83, 6494-6507.	3.4	98
35	Complement Protein C1q Reduces the Stoichiometric Threshold for Antibody-Mediated Neutralization of West Nile Virus. <i>Cell Host and Microbe</i> , 2009, 6, 381-391.	11.0	94
36	Deconstructing the Antiviral Neutralizing-Antibody Response: Implications for Vaccine Development and Immunity. <i>Microbiology and Molecular Biology Reviews</i> , 2016, 80, 989-1010.	6.6	93

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37	Combined Effects of the Structural Heterogeneity and Dynamics of Flaviviruses on Antibody Recognition. <i>Journal of Virology</i> , 2014, 88, 11726-11737.	3.4	91
38	The Challenges of Vaccine Development against a New Virus during a Pandemic. <i>Cell Host and Microbe</i> , 2020, 27, 699-703.	11.0	88
39	An mRNA Vaccine Protects Mice against Multiple Tick-Transmitted Flavivirus Infections. <i>Cell Reports</i> , 2018, 25, 3382-3392.e3.	6.4	79
40	Zika Virus Vaccine Development: Progress in the Face of New Challenges. <i>Annual Review of Medicine</i> , 2019, 70, 121-135.	12.2	76
41	Functional Analysis of Antibodies against Dengue Virus Type 4 Reveals Strain-Dependent Epitope Exposure That Impacts Neutralization and Protection. <i>Journal of Virology</i> , 2013, 87, 8826-8842.	3.4	73
42	Genotypic Differences in Dengue Virus Neutralization Are Explained by a Single Amino Acid Mutation That Modulates Virus Breathing. <i>MBio</i> , 2015, 6, e01559-15.	4.1	71
43	Fe-S cofactors in the SARS-CoV-2 RNA-dependent RNA polymerase are potential antiviral targets. <i>Science</i> , 2021, 373, 236-241.	12.6	71
44	Enhancing dengue virus maturation using a stable furin over-expressing cell line. <i>Virology</i> , 2016, 497, 33-40.	2.4	69
45	A single mutation in the envelope protein modulates flavivirus antigenicity, stability, and pathogenesis. <i>PLoS Pathogens</i> , 2017, 13, e1006178.	4.7	69
46	A VSV-based Zika virus vaccine protects mice from lethal challenge. <i>Scientific Reports</i> , 2018, 8, 11043.	3.3	68
47	Mechanism and Significance of Cell Type-Dependent Neutralization of Flaviviruses. <i>Journal of Virology</i> , 2014, 88, 7210-7220.	3.4	58
48	Zika Virus Is Not Uniquely Stable at Physiological Temperatures Compared to Other Flaviviruses. <i>MBio</i> , 2016, 7, .	4.1	52
49	Potent Dengue Virus Neutralization by a Therapeutic Antibody with Low Monovalent Affinity Requires Bivalent Engagement. <i>PLoS Pathogens</i> , 2014, 10, e1004072.	4.7	51
50	Development of a potent Zika virus vaccine using self-amplifying messenger RNA. <i>Science Advances</i> , 2020, 6, eaba5068.	10.3	50
51	The Zika virus envelope protein glycan loop regulates virion antigenicity. <i>Virology</i> , 2018, 515, 191-202.	2.4	49
52	The Many Faces of a Dynamic Virion: Implications of Viral Breathing on Flavivirus Biology and Immunogenicity. <i>Annual Review of Virology</i> , 2018, 5, 185-207.	6.7	49
53	Lipid nanoparticle encapsulated nucleoside-modified mRNA vaccines elicit polyfunctional HIV-1 antibodies comparable to proteins in nonhuman primates. <i>Npj Vaccines</i> , 2021, 6, 50.	6.0	46
54	A Game of Numbers. <i>Progress in Molecular Biology and Translational Science</i> , 2015, 129, 141-166.	1.7	42

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55	Protective Efficacy of Nucleic Acid Vaccines Against Transmission of Zika Virus During Pregnancy in Mice. <i>Journal of Infectious Diseases</i> , 2019, 220, 1577-1588.	4.0	39
56	The Infectivity of prM-Containing Partially Mature West Nile Virus Does Not Require the Activity of Cellular Furin-Like Proteases. <i>Journal of Virology</i> , 2011, 85, 12067-12072.	3.4	36
57	The Type-Specific Neutralizing Antibody Response Elicited by a Dengue Vaccine Candidate Is Focused on Two Amino Acids of the Envelope Protein. <i>PLoS Pathogens</i> , 2013, 9, e1003761.	4.7	34
58	DNA vaccination before conception protects Zika virus-exposed pregnant macaques against prolonged viremia and improves fetal outcomes. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	31
59	Distinct neutralizing antibody correlates of protection among related Zika virus vaccines identify a role for antibody quality. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	30
60	Pseudo-infectious Reporter Virus Particles for Measuring Antibody-Mediated Neutralization and Enhancement of Dengue Virus Infection. <i>Methods in Molecular Biology</i> , 2014, 1138, 75-97.	0.9	28
61	Diagnostics for Zika virus on the horizon. <i>Science</i> , 2016, 353, 750-751.	12.6	27
62	Mechanism of differential Zika and dengue virus neutralization by a public antibody lineage targeting the DIII lateral ridge. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	26
63	A protective human monoclonal antibody targeting the West Nile virus E protein preferentially recognizes mature virions. <i>Nature Microbiology</i> , 2019, 4, 71-77.	13.3	25
64	A Novel Approach for the Rapid Mutagenesis and Directed Evolution of the Structural Genes of West Nile Virus. <i>Journal of Virology</i> , 2012, 86, 3501-3512.	3.4	22
65	Broadly neutralizing monoclonal antibodies protect against multiple tick-borne flaviviruses. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	22
66	Modeling Antibody-Enhanced Dengue Virus Infection and Disease in Mice: Protection or Pathogenesis?. <i>Cell Host and Microbe</i> , 2010, 7, 85-86.	11.0	18
67	Dengue and Zika Virus Cross-Reactive Human Monoclonal Antibodies Protect against Spondweni Virus Infection and Pathogenesis in Mice. <i>Cell Reports</i> , 2019, 26, 1585-1597.e4.	6.4	18
68	The Fc Region of an Antibody Impacts the Neutralization of West Nile Viruses in Different Maturation States. <i>Journal of Virology</i> , 2013, 87, 13729-13740.	3.4	17
69	Vaccine Development as a Means to Control Dengue Virus Pathogenesis: Do We Know Enough?. <i>Annual Review of Virology</i> , 2014, 1, 375-398.	6.7	15
70	Context-Dependent Cleavage of the Capsid Protein by the West Nile Virus Protease Modulates the Efficiency of Virus Assembly. <i>Journal of Virology</i> , 2015, 89, 8632-8642.	3.4	15
71	Characterization of a Species E Adenovirus Vector as a Zika virus vaccine. <i>Scientific Reports</i> , 2020, 10, 3613.	3.3	15
72	Capturing a Virus while It Catches Its Breath. <i>Structure</i> , 2012, 20, 200-202.	3.3	13

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73	Levels of Circulating NS1 Impact West Nile Virus Spread to the Brain. <i>Journal of Virology</i> , 2021, 95, e0084421.	3.4	13
74	Zika in the Brain: New Models Shed Light on Viral Infection. <i>Trends in Molecular Medicine</i> , 2016, 22, 639-641.	6.7	12
75	Cross-Reactive Flavivirus Antibody: Friend and Foe?. <i>Cell Host and Microbe</i> , 2018, 24, 622-624.	11.0	9
76	T Cells Take on Zika Virus. <i>Immunity</i> , 2017, 46, 13-14.	14.3	8
77	Effects of dengue immunity on Zika virus infection. <i>Nature</i> , 2019, 567, 467-468.	27.8	8
78	Dengue Virus Serotype 1 Conformational Dynamics Confers Virus Strain-Dependent Patterns of Neutralization by Polyclonal Sera. <i>Journal of Virology</i> , 2021, 95, e0095621.	3.4	8
79	Limited Flavivirus Cross-Reactive Antibody Responses Elicited by a Zika Virus Deoxyribonucleic Acid Vaccine Candidate in Humans. <i>Journal of Infectious Diseases</i> , 2021, 224, 1550-1555.	4.0	5
80	Implications of a highly divergent dengue virus strain for cross-neutralization, protection, and vaccine immunity. <i>Cell Host and Microbe</i> , 2021, 29, 1634-1648.e5.	11.0	5
81	Impact of viral attachment factor expression on antibody-mediated neutralization of flaviviruses. <i>Virology</i> , 2013, 437, 20-27.	2.4	3
82	Nonhuman primates exposed to Zika virus in utero are not protected against reinfection at 1 year postpartum. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	1