

Craig B Wilen

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

10,807
citations

76196

40
h-index

91712

69
g-index

94
all docs

94
docs citations

94
times ranked

20084
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized sgRNA design to maximize activity and minimize off-target effects of CRISPR-Cas9. <i>Nature Biotechnology</i> , 2016, 34, 184-191.	9.4	3,168
2	Neuroinvasion of SARS-CoV-2 in human and mouse brain. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	677
3	HIV: Cell Binding and Entry. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012, 2, a006866-a006866.	2.9	438
4	Genome-wide CRISPR Screens Reveal Host Factors Critical for SARS-CoV-2 Infection. <i>Cell</i> , 2021, 184, 76-91.e13.	13.5	418
5	Phenotypic properties of transmitted founder HIV-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6626-6633.	3.3	379
6	Mouse model of SARS-CoV-2 reveals inflammatory role of type I interferon signaling. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	357
7	Altered Virome and Bacterial Microbiome in Human Immunodeficiency Virus-Associated Acquired Immunodeficiency Syndrome. <i>Cell Host and Microbe</i> , 2016, 19, 311-322.	5.1	330
8	Inflammasome activation in infected macrophages drives COVID-19 pathology. <i>Nature</i> , 2022, 606, 585-593.	13.7	276
9	Discovery of a proteinaceous cellular receptor for a norovirus. <i>Science</i> , 2016, 353, 933-936.	6.0	241
10	Comprehensive inÂvivo secondary structure of the SARS-CoV-2 genome reveals novel regulatory motifs and mechanisms. <i>Molecular Cell</i> , 2021, 81, 584-598.e5.	4.5	198
11	Tropism for tuft cells determines immune promotion of norovirus pathogenesis. <i>Science</i> , 2018, 360, 204-208.	6.0	187
12	Single-cell longitudinal analysis of SARS-CoV-2 infection in human airway epithelium identifies target cells, alterations in gene expression, and cell state changes. <i>PLoS Biology</i> , 2021, 19, e3001143.	2.6	180
13	Molecular Mechanisms of HIV Entry. <i>Advances in Experimental Medicine and Biology</i> , 2012, 726, 223-242.	0.8	177
14	Intercellular Mitochondria Transfer to Macrophages Regulates White Adipose Tissue Homeostasis and Is Impaired in Obesity. <i>Cell Metabolism</i> , 2021, 33, 270-282.e8.	7.2	160
15	De novo emergence of a remdesivir resistance mutation during treatment of persistent SARS-CoV-2 infection in an immunocompromised patient: a case report. <i>Nature Communications</i> , 2022, 13, 1547.	5.8	159
16	Live imaging of SARS-CoV-2 infection in mice reveals that neutralizing antibodies require Fc function for optimal efficacy. <i>Immunity</i> , 2021, 54, 2143-2158.e15.	6.6	155
17	Translational shutdown and evasion of the innate immune response by SARS-CoV-2 NSP14 protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	142
18	Discovery and functional interrogation of SARS-CoV-2 RNA-host protein interactions. <i>Cell</i> , 2021, 184, 2394-2411.e16.	13.5	141

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19	Transmitted/Founder and Chronic Subtype C HIV-1 Use CD4 and CCR5 Receptors with Equal Efficiency and Are Not Inhibited by Blocking the Integrin $\alpha 4\beta 7$. <i>PLoS Pathogens</i> , 2012, 8, e1002686.	2.1	140
20	Simultaneous zinc-finger nuclease editing of the HIV coreceptors <i>ccr5</i> and <i>cxcr4</i> protects CD4+ T cells from HIV-1 infection. <i>Blood</i> , 2014, 123, 61-69.	0.6	135
21	Engineering HIV-Resistant Human CD4+ T Cells with CXCR4-Specific Zinc-Finger Nucleases. <i>PLoS Pathogens</i> , 2011, 7, e1002020.	2.1	130
22	Phenotypic and Immunologic Comparison of Clade B Transmitted/Founder and Chronic HIV-1 Envelope Glycoproteins. <i>Journal of Virology</i> , 2011, 85, 8514-8527.	1.5	110
23	Acute encephalopathy with elevated CSF inflammatory markers as the initial presentation of COVID-19. <i>BMC Neurology</i> , 2020, 20, 248.	0.8	108
24	A Maraviroc-Resistant HIV-1 with Narrow Cross-Resistance to Other CCR5 Antagonists Depends on both N-Terminal and Extracellular Loop Domains of Drug-Bound CCR5. <i>Journal of Virology</i> , 2010, 84, 10863-10876.	1.5	100
25	Nonsteroidal Anti-inflammatory Drugs Dampen the Cytokine and Antibody Response to SARS-CoV-2 Infection. <i>Journal of Virology</i> , 2021, 95, .	1.5	97
26	Viral Replication Complexes Are Targeted by LC3-Guided Interferon-Inducible GTPases. <i>Cell Host and Microbe</i> , 2017, 22, 74-85.e7.	5.1	90
27	The intestinal regionalization of acute norovirus infection is regulated by the microbiota via bile acid-mediated priming of type III interferon. <i>Nature Microbiology</i> , 2020, 5, 84-92.	5.9	87
28	Homeostatic Control of Innate Lung Inflammation by Vici Syndrome Gene <i>Epg5</i> and Additional Autophagy Genes Promotes Influenza Pathogenesis. <i>Cell Host and Microbe</i> , 2016, 19, 102-113.	5.1	83
29	Structural basis for murine norovirus engagement of bile acids and the CD300lf receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9201-E9210.	3.3	82
30	The Major Cellular Sterol Regulatory Pathway Is Required for Andes Virus Infection. <i>PLoS Pathogens</i> , 2014, 10, e1003911.	2.1	80
31	An ACE2 Microbody Containing a Single Immunoglobulin Fc Domain Is a Potent Inhibitor of SARS-CoV-2. <i>Cell Reports</i> , 2020, 33, 108528.	2.9	77
32	Restriction of SARS-CoV-2 replication by targeting programmed α^1 ribosomal frameshifting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	75
33	A humanized mouse model of chronic COVID-19. <i>Nature Biotechnology</i> , 2022, 40, 906-920.	9.4	71
34	Norovirus Cell Tropism Is Determined by Combinatorial Action of a Viral Non-structural Protein and Host Cytokine. <i>Cell Host and Microbe</i> , 2017, 22, 449-459.e4.	5.1	70
35	Transmitted/Founder and Chronic HIV-1 Envelope Proteins Are Distinguished by Differential Utilization of CCR5. <i>Journal of Virology</i> , 2013, 87, 2401-2411.	1.5	66
36	Comparison of Sample Preparation Methods, Instrumentation Platforms, and Contemporary Commercial Databases for Identification of Clinically Relevant Mycobacteria by Matrix-Assisted Laser Desorption Ionization- α Time of Flight Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2015, 53, 2308-2315.	1.8	66

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37	HIV-1 Resistance to CCR5 Antagonists Associated with Highly Efficient Use of CCR5 and Altered Tropism on Primary CD4 ⁺ T Cells. <i>Journal of Virology</i> , 2010, 84, 6505-6514.	1.5	59
38	A Secreted Viral Nonstructural Protein Determines Intestinal Norovirus Pathogenesis. <i>Cell Host and Microbe</i> , 2019, 25, 845-857.e5.	5.1	57
39	Interaction between smoking and ATG16L1/300A triggers Paneth cell defects in Crohn's disease. <i>Journal of Clinical Investigation</i> , 2018, 128, 5110-5122.	3.9	53
40	Primary Infection by a Human Immunodeficiency Virus with Atypical Coreceptor Tropism. <i>Journal of Virology</i> , 2011, 85, 10669-10681.	1.5	51
41	Noroviruses subvert the core stress granule component G3BP1 to promote viral VPg-dependent translation. <i>ELife</i> , 2019, 8, .	2.8	48
42	A stem-loop RNA RIG-I agonist protects against acute and chronic SARS-CoV-2 infection in mice. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	46
43	CD300lf is the primary physiologic receptor of murine norovirus but not human norovirus. <i>PLoS Pathogens</i> , 2020, 16, e1008242.	2.1	44
44	Omicron-specific mRNA vaccination alone and as a heterologous booster against SARS-CoV-2. <i>Nature Communications</i> , 2022, 13, .	5.8	40
45	Bile Salts Alter the Mouse Norovirus Capsid Conformation: Possible Implications for Cell Attachment and Immune Evasion. <i>Journal of Virology</i> , 2019, 93, .	1.5	39
46	Mouse Norovirus Infection Arrests Host Cell Translation Uncoupled from the Stress Granule-PKR-eIF2 α Axis. <i>MBio</i> , 2019, 10, .	1.8	39
47	Norovirus Attachment and Entry. <i>Viruses</i> , 2019, 11, 495.	1.5	39
48	Select autophagy genes maintain quiescence of tissue-resident macrophages and increase susceptibility to <i>Listeria monocytogenes</i> . <i>Nature Microbiology</i> , 2020, 5, 272-281.	5.9	36
49	Evolution of a Distinct Genomic Domain in <i>Drosophila</i> : Comparative Analysis of the Dot Chromosome in <i>Drosophila melanogaster</i> and <i>Drosophila virilis</i> . <i>Genetics</i> , 2010, 185, 1519-1534.	1.2	34
50	Sphingolipid biosynthesis induces a conformational change in the murine norovirus receptor and facilitates viral infection. <i>Nature Microbiology</i> , 2018, 3, 1109-1114.	5.9	33
51	High-affinity, neutralizing antibodies to SARS-CoV-2 can be made without T follicular helper cells. <i>Science Immunology</i> , 2022, 7, .	5.6	28
52	CD4 Receptor is a Key Determinant of Divergent HIV-1 Sensing by Plasmacytoid Dendritic Cells. <i>PLoS Pathogens</i> , 2016, 12, e1005553.	2.1	27
53	UFMylation inhibits the proinflammatory capacity of interferon- γ -activated macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	24
54	The Interpretation of SARS-CoV-2 Diagnostic Tests. <i>Med</i> , 2020, 1, 78-89.	2.2	22

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55	Tuft cells are key mediators of interkingdom interactions at mucosal barrier surfaces. <i>PLoS Pathogens</i> , 2022, 18, e1010318.	2.1	21
56	Criteria for Reducing Unnecessary Testing for Herpes Simplex Virus, Varicella-Zoster Virus, Cytomegalovirus, and Enterovirus in Cerebrospinal Fluid Samples from Adults. <i>Journal of Clinical Microbiology</i> , 2015, 53, 887-895.	1.8	19
57	CD300lf Conditional Knockout Mouse Reveals Strain-Specific Cellular Tropism of Murine Norovirus. <i>Journal of Virology</i> , 2021, 95, .	1.5	17
58	Markers of Intestinal Inflammation for the Diagnosis of Infectious Gastroenteritis. <i>Clinics in Laboratory Medicine</i> , 2015, 35, 333-344.	0.7	12
59	Cytidine Monophosphate <i>N</i> -Acetylneuraminic Acid Synthetase and Solute Carrier Family 35 Member A1 Are Required for Reovirus Binding and Infection. <i>Journal of Virology</i> , 2020, 95, .	1.5	11
60	Norovirus evolution in immunodeficient mice reveals potentiated pathogenicity via a single nucleotide change in the viral capsid. <i>PLoS Pathogens</i> , 2021, 17, e1009402.	2.1	11
61	Monospecific and bispecific monoclonal SARS-CoV-2 neutralizing antibodies that maintain potency against B.1.617. <i>Nature Communications</i> , 2022, 13, 1638.	5.8	11
62	Reovirus infection is regulated by NPC1 and endosomal cholesterol homeostasis. <i>PLoS Pathogens</i> , 2022, 18, e1010322.	2.1	11
63	Distinct Roles of Type I and Type III Interferons during a Native Murine \hat{I}^2 Coronavirus Lung Infection. <i>Journal of Virology</i> , 2022, 96, JV0124121.	1.5	10
64	Variant-specific vaccination induces systems immune responses and potent <i>in vivo</i> protection against SARS-CoV-2. <i>Cell Reports Medicine</i> , 2022, 3, 100634.	3.3	10
65	Using direct antiglobulin test results to reduce unnecessary cold agglutinin testing. <i>Transfusion</i> , 2017, 57, 1480-1484.	0.8	9
66	High-affinity, neutralizing antibodies to SARS-CoV-2 can be made without T follicular helper cells.. <i>Science Immunology</i> , 2021, , eabl5652.	5.6	6
67	CD300LF Polymorphisms of Inbred Mouse Strains Confer Resistance to Murine Norovirus Infection in a Cell Type-Dependent Manner. <i>Journal of Virology</i> , 2020, 94, .	1.5	3
68	Impact on Patient Management and Outcome of Switching between 2 Contemporary Sensitive Cardiac Troponin Assays. <i>Clinical Chemistry</i> , 2015, 61, 870-876.	1.5	2
69	Epidemiology of Bloodstream Infections. , 2017, , 163-181.		2
70	Restriction of Viral Replication, Rather than T Cell Immunopathology, Drives Lethality in Murine Norovirus CR6-Infected STAT1-Deficient Mice. <i>Journal of Virology</i> , 2022, 96, jvi0206521.	1.5	1