Craig B Wilen

List of Publications by Year
in descending order

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70 papers	10,807 citations	76326 40 h-index	91884 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. Nature Biotechnology, 2016, 34, 184-191.	17.5	3,168
2	Neuroinvasion of SARS-CoV-2 in human and mouse brain. Journal of Experimental Medicine, 2021, 218, .	8.5	677
3	HIV: Cell Binding and Entry. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a006866-a006866.	6.2	438
4	Genome-wide CRISPR Screens Reveal Host Factors Critical for SARS-CoV-2 Infection. Cell, 2021, 184, 76-91.e13.	28.9	418
5	Phenotypic properties of transmitted founder HIV-1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6626-6633.	7.1	379
6	Mouse model of SARS-CoV-2 reveals inflammatory role of type I interferon signaling. Journal of Experimental Medicine, 2020, 217, .	8.5	357
7	Altered Virome and Bacterial Microbiome in Human Immunodeficiency Virus-Associated Acquired Immunodeficiency Syndrome. Cell Host and Microbe, 2016, 19, 311-322.	11.0	330
8	Inflammasome activation in infected macrophages drives COVID-19 pathology. Nature, 2022, 606, 585-593.	27.8	276
9	Discovery of a proteinaceous cellular receptor for a norovirus. Science, 2016, 353, 933-936.	12.6	241
10	Comprehensive inÂvivo secondary structure of the SARS-CoV-2 genome reveals novel regulatory motifs and mechanisms. Molecular Cell, 2021, 81, 584-598.e5.	9.7	198
11	Tropism for tuft cells determines immune promotion of norovirus pathogenesis. Science, 2018, 360, 204-208.	12.6	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. PLoS Biology, 2021, 19, e3001143.	5.6	180
13	Molecular Mechanisms of HIV Entry. Advances in Experimental Medicine and Biology, 2012, 726, 223-242.	1.6	177
14	Intercellular Mitochondria Transfer to Macrophages Regulates White Adipose Tissue Homeostasis and Is Impaired in Obesity. Cell Metabolism, 2021, 33, 270-282.e8.	16.2	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. Nature Communications, 2022, 13, 1547.	12.8	159
16	Live imaging of SARS-CoV-2 infection in mice reveals that neutralizing antibodies require Fc function for optimal efficacy. Immunity, 2021, 54, 2143-2158.e15.	14.3	155
17	Translational shutdown and evasion of the innate immune response by SARS-CoV-2 NSP14 protein. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	142
18	Discovery and functional interrogation of SARS-CoV-2 RNA-host protein interactions. Cell, 2021, 184, 2394-2411.e16.	28.9	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 Î±4Î²7. PLoS Pathogens, 2012, 8, e1002686.	4.7	140
20	Simultaneous zinc-finger nuclease editing of the HIV coreceptors ccr5 and cxcr4 protects CD4+ T cells from HIV-1 infection. Blood, 2014, 123, 61-69.	1.4	135
21	Engineering HIV-Resistant Human CD4+ T Cells with CXCR4-Specific Zinc-Finger Nucleases. PLoS Pathogens, 2011, 7, e1002020.	4.7	130
22	Phenotypic and Immunologic Comparison of Clade B Transmitted/Founder and Chronic HIV-1 Envelope Glycoproteins. Journal of Virology, 2011, 85, 8514-8527.	3.4	110
23	Acute encephalopathy with elevated CSF inflammatory markers as the initial presentation of COVID-19. BMC Neurology, 2020, 20, 248.	1.8	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. Journal of Virology, 2010, 84, 10863-10876.	3.4	100
25	Nonsteroidal Anti-inflammatory Drugs Dampen the Cytokine and Antibody Response to SARS-CoV-2 Infection. Journal of Virology, 2021, 95, .	3.4	97
26	Viral Replication Complexes Are Targeted by LC3-Guided Interferon-Inducible GTPases. Cell Host and Microbe, 2017, 22, 74-85.e7.	11.0	90
27	The intestinal regionalization of acute norovirus infection is regulated by the microbiota via bile acid-mediated priming of type III interferon. Nature Microbiology, 2020, 5, 84-92.	13.3	87
28	Homeostatic Control of Innate Lung Inflammation by Vici Syndrome Gene Epg5 and Additional Autophagy Genes Promotes Influenza Pathogenesis. Cell Host and Microbe, 2016, 19, 102-113.	11.0	83
29	Structural basis for murine norovirus engagement of bile acids and the CD300lf receptor. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9201-E9210.	7.1	82
30	The Major Cellular Sterol Regulatory Pathway Is Required for Andes Virus Infection. PLoS Pathogens, 2014, 10, e1003911.	4.7	80
31	An ACE2 Microbody Containing a Single Immunoglobulin Fc Domain Is a Potent Inhibitor of SARS-CoV-2. Cell Reports, 2020, 33, 108528.	6.4	77
32	Restriction of SARS-CoV-2 replication by targeting programmed â^'1 ribosomal frameshifting. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	75
33	A humanized mouse model of chronic COVID-19. Nature Biotechnology, 2022, 40, 906-920.	17.5	71
34	Norovirus Cell Tropism Is Determined by Combinatorial Action of a Viral Non-structural Protein and Host Cytokine. Cell Host and Microbe, 2017, 22, 449-459.e4.	11.0	70
35	Transmitted/Founder and Chronic HIV-1 Envelope Proteins Are Distinguished by Differential Utilization of CCR5. Journal of Virology, 2013, 87, 2401-2411.	3.4	66
36	Comparison of Sample Preparation Methods, Instrumentation Platforms, and Contemporary Commercial Databases for Identification of Clinically Relevant Mycobacteria by Matrix-Assisted Laser Desorption Ionizationâ€“Time of Flight Mass Spectrometry. Journal of Clinical Microbiology, 2015, 53, 2308-2315.	3.9	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. Journal of Virology, 2010, 84, 6505-6514.	3.4	59
38	A Secreted Viral Nonstructural Protein Determines Intestinal Norovirus Pathogenesis. Cell Host and Microbe, 2019, 25, 845-857.e5.	11.0	57
39	Interaction between smoking and ATG16L1T300A triggers Paneth cell defects in Crohnâ€™s disease. Journal of Clinical Investigation, 2018, 128, 5110-5122.	8.2	53
40	Primary Infection by a Human Immunodeficiency Virus with Atypical Coreceptor Tropism. Journal of Virology, 2011, 85, 10669-10681.	3.4	51
41	Noroviruses subvert the core stress granule component G3BP1 to promote viral VPg-dependent translation. ELife, 2019, 8, .	6.0	48
42	A stem-loop RNA RIG-I agonist protects against acute and chronic SARS-CoV-2 infection in mice. Journal of Experimental Medicine, 2022, 219, .	8.5	46
43	CD300lf is the primary physiologic receptor of murine norovirus but not human norovirus. PLoS Pathogens, 2020, 16, e1008242.	4.7	44
44	Omicron-specific mRNA vaccination alone and as a heterologous booster against SARS-CoV-2. Nature Communications, 2022, 13, .	12.8	40
45	Bile Salts Alter the Mouse Norovirus Capsid Conformation: Possible Implications for Cell Attachment and Immune Evasion. Journal of Virology, 2019, 93, .	3.4	39
46	Mouse Norovirus Infection Arrests Host Cell Translation Uncoupled from the Stress Granule-PKR-eIF2Î± Axis. MBio, 2019, 10, .	4.1	39
47	Norovirus Attachment and Entry. Viruses, 2019, 11, 495.	3.3	39
48	Select autophagy genes maintain quiescence of tissue-resident macrophages and increase susceptibility to Listeria monocytogenes. Nature Microbiology, 2020, 5, 272-281.	13.3	36
49	Evolution of a Distinct Genomic Domain in Drosophila: Comparative Analysis of the Dot Chromosome in Drosophila melanogaster and Drosophila virilis. Genetics, 2010, 185, 1519-1534.	2.9	34
50	Sphingolipid biosynthesis induces a conformational change in the murine norovirus receptor and facilitates viral infection. Nature Microbiology, 2018, 3, 1109-1114.	13.3	33
51	High-affinity, neutralizing antibodies to SARS-CoV-2 can be made without T follicular helper cells. Science Immunology, 2022, 7, .	11.9	28
52	CD4 Receptor is a Key Determinant of Divergent HIV-1 Sensing by Plasmacytoid Dendritic Cells. PLoS Pathogens, 2016, 12, e1005553.	4.7	27
53	UFMylation inhibits the proinflammatory capacity of interferon-Î³â€“activated macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
54	The Interpretation of SARS-CoV-2 Diagnostic Tests. Med, 2020, 1, 78-89.	4.4	22

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55	Tuft cells are key mediators of interkingdom interactions at mucosal barrier surfaces. PLoS Pathogens, 2022, 18, e1010318.	4.7	21
56	Criteria for Reducing Unnecessary Testing for Herpes Simplex Virus, Varicella-Zoster Virus, Cytomegalovirus, and Enterovirus in Cerebrospinal Fluid Samples from Adults. Journal of Clinical Microbiology, 2015, 53, 887-895.	3.9	19
57	CD300lf Conditional Knockout Mouse Reveals Strain-Specific Cellular Tropism of Murine Norovirus. Journal of Virology, 2021, 95, .	3.4	17
58	Markers of Intestinal Inflammation for the Diagnosis of Infectious Gastroenteritis. Clinics in Laboratory Medicine, 2015, 35, 333-344.	1.4	12
59	Cytidine Monophosphate N -Acetylneuraminic Acid Synthetase and Solute Carrier Family 35 Member A1 Are Required for Reovirus Binding and Infection. Journal of Virology, 2020, 95, .	3.4	11
60	Norovirus evolution in immunodeficient mice reveals potentiated pathogenicity via a single nucleotide change in the viral capsid. PLoS Pathogens, 2021, 17, e1009402.	4.7	11
61	Monospecific and bispecific monoclonal SARS-CoV-2 neutralizing antibodies that maintain potency against B.1.617. Nature Communications, 2022, 13, 1638.	12.8	11
62	Reovirus infection is regulated by NPC1 and endosomal cholesterol homeostasis. PLoS Pathogens, 2022, 18, e1010322.	4.7	11
63	Distinct Roles of Type I and Type III Interferons during a Native Murine Î² Coronavirus Lung Infection. Journal of Virology, 2022, 96, JVI0124121.	3.4	10
64	Variant-specific vaccination induces systems immune responses and potent inÂvivo protection against SARS-CoV-2. Cell Reports Medicine, 2022, 3, 100634.	6.5	10
65	Using direct antiglobulin test results to reduce unnecessary cold agglutinin testing. Transfusion, 2017, 57, 1480-1484.	1.6	9
66	High-affinity, neutralizing antibodies to SARS-CoV-2 can be made without T follicular helper cells.. Science Immunology, 2021, , eabl5652.	11.9	6
67	CD300LF Polymorphisms of Inbred Mouse Strains Confer Resistance to Murine Norovirus Infection in a Cell Type-Dependent Manner. Journal of Virology, 2020, 94, .	3.4	3
68	Impact on Patient Management and Outcome of Switching between 2 Contemporary Sensitive Cardiac Troponin Assays. Clinical Chemistry, 2015, 61, 870-876.	3.2	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. Journal of Virology, 2022, 96, jvi0206521.	3.4	1