

Genhong Cheng

List of Publications by Year in descending order

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96
papers

7,956
citations

109321
35
h-index

54911
84
g-index

101
all docs

101
docs citations

101
times ranked

15339
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome Composition and Divergence of the Novel Coronavirus (2019-nCoV) Originating in China. Cell Host and Microbe, 2020, 27, 325-328.	11.0	1,860
2	Interferon-Inducible Cholesterol-25-Hydroxylase Broadly Inhibits Viral Entry by Production of 25-Hydroxycholesterol. Immunity, 2013, 38, 92-105.	14.3	554
3	Cultivation of a human-associated TM7 phylotype reveals a reduced genome and epibiotic parasitic lifestyle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 244-249.	7.1	405
4	Systematic identification of type I and type II interferon-induced antiviral factors. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4239-4244.	7.1	394
5	Self-Organized Cerebral Organoids with Human-Specific Features Predict Effective Drugs to Combat Zika Virus Infection. Cell Reports, 2017, 21, 517-532.	6.4	305
6	The Roles of Type I Interferon in Bacterial Infection. Cell Host and Microbe, 2016, 19, 760-769.	11.0	294
7	25-Hydroxycholesterol Protects Host against Zika Virus Infection and Its Associated Microcephaly in a Mouse Model. Immunity, 2017, 46, 446-456.	14.3	276
8	Delayed childhood neurodevelopment and neurosensory alterations in the second year of life in a prospective cohort of ZIKV-exposed children. Nature Medicine, 2019, 25, 1213-1217.	30.7	215
9	Influenza Virus Affects Intestinal Microbiota and Secondary Salmonella Infection in the Gut through Type I Interferons. PLoS Pathogens, 2016, 12, e1005572.	4.7	213
10	From Mosquitos to Humans: Genetic Evolution of Zika Virus. Cell Host and Microbe, 2016, 19, 561-565.	11.0	199
11	Sequence analysis of the emerging SARS-CoV-2 variant Omicron in South Africa. Journal of Medical Virology, 2022, 94, 1728-1733.	5.0	193
12	Radiation and Inflammation. Seminars in Radiation Oncology, 2015, 25, 4-10.	2.2	185
13	Chloroquine, a FDA-approved Drug, Prevents Zika Virus Infection and its Associated Congenital Microcephaly in Mice. EBioMedicine, 2017, 24, 189-194.	6.1	144
14	Positive Feedback Regulation of Type I IFN Production by the IFN-Inducible DNA Sensor cGAS. Journal of Immunology, 2015, 194, 1545-1554.	0.8	141
15	Asian Zika virus strains target CD14+ blood monocytes and induce M2-skewed immunosuppression during pregnancy. Nature Microbiology, 2017, 2, 1558-1570.	13.3	135
16	Positive feedback regulation of type I interferon by the interferon-stimulated gene <sc>STING</sc>. EMBO Reports, 2015, 16, 202-212.	4.5	109
17	Nrf2-mediated liver protection by esculentoside A against acetaminophen toxicity through the AMPK/Akt/GSK3 β pathway. Free Radical Biology and Medicine, 2016, 101, 401-412.	2.9	106
18	Interferon-Inducible Cholesterol-25-Hydroxylase Inhibits Hepatitis C Virus Replication via Distinct Mechanisms. Scientific Reports, 2014, 4, 7242.	3.3	103

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19	Interleukin-8 as a Biomarker for Disease Prognosis of Coronavirus Disease-2019 Patients. <i>Frontiers in Immunology</i> , 2020, 11, 602395.	4.8	101
20	Upregulation of Bcl-x and Bfl-1 as a potential mechanism of chemoresistance, which can be overcome by NF- κ B inhibition. <i>Oncogene</i> , 2000, 19, 4936-4940.	5.9	96
21	Deregulated expression of the PU.1 transcription factor blocks murine erythroleukemia cell terminal differentiation. <i>Oncogene</i> , 1997, 14, 123-131.	5.9	91
22	25-Hydroxycholesterol is a potent SARS-CoV-2 inhibitor. <i>Cell Research</i> , 2020, 30, 1043-1045.	12.0	91
23	Human T-cell leukemia virus type I tax protein induces the expression of anti-apoptotic gene Bcl-xL in human T-cells through nuclear factor-kappaB and c-AMP responsive element binding protein pathways. <i>Virus Genes</i> , 2001, 22, 279-287.	1.6	86
24	Structural analysis of asparaginyl endopeptidase reveals the activation mechanism and a reversible intermediate maturation stage. <i>Cell Research</i> , 2014, 24, 344-358.	12.0	86
25	PARP12 suppresses Zika virus infection through PARP-dependent degradation of NS1 and NS3 viral proteins. <i>Science Signaling</i> , 2018, 11, .	3.6	86
26	Azithromycin Protects against Zika Virus Infection by Upregulating Virus-Induced Type I and III Interferon Responses. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	83
27	Cryo-EM Structure of Influenza Virus RNA Polymerase Complex at 4.3 Å Resolution. <i>Molecular Cell</i> , 2015, 57, 925-935.	9.7	79
28	Poly I:C Enhances Susceptibility to Secondary Pulmonary Infections by Gram-Positive Bacteria. <i>PLoS ONE</i> , 2012, 7, e41879.	2.5	70
29	TRIM14 inhibits hepatitis C virus infection by SPRY domain-dependent targeted degradation of the viral NS5A protein. <i>Scientific Reports</i> , 2016, 6, 32336.	3.3	63
30	One year of SARS-CoV-2 evolution. <i>Cell Host and Microbe</i> , 2021, 29, 503-507.	11.0	60
31	Retinoid X receptor α attenuates host antiviral response by suppressing type I interferon. <i>Nature Communications</i> , 2014, 5, 5494.	12.8	50
32	New insights into the structural basis of DNA recognition by HINa and HINb domains of IFI16. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 51-61.	3.3	48
33	RAG-mediated DNA double-strand breaks activate a cell type-specific checkpoint to inhibit pre-B cell receptor signals. <i>Journal of Experimental Medicine</i> , 2016, 213, 209-223.	8.5	47
34	Structural basis for DNA recognition by STAT6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13015-13020.	7.1	46
35	Type-I-IFN-Stimulated Gene TRIM5 α Inhibits HBV Replication by Promoting HBx Degradation. <i>Cell Reports</i> , 2019, 29, 3551-3563.e3.	6.4	45
36	IL-26 contributes to host defense against intracellular bacteria. <i>Journal of Clinical Investigation</i> , 2019, 129, 1926-1939.	8.2	42

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37	Inhibition of Influenza A Virus Replication by TRIM14 via Its Multifaceted Protein-Protein Interaction With NP. <i>Frontiers in Microbiology</i> , 2019, 10, 344.	3.5	39
38	The hepatitis C virus protein NS3 suppresses TNF- α -stimulated activation of NF- κ B by targeting LUBAC. <i>Science Signaling</i> , 2015, 8, ra118.	3.6	37
39	A TRAF3-NIK module differentially regulates DNA vs RNA pathways in innate immune signaling. <i>Nature Communications</i> , 2018, 9, 2770.	12.8	36
40	The battle between host and SARS-CoV-2: Innate immunity and viral evasion strategies. <i>Molecular Therapy</i> , 2022, 30, 1869-1884.	8.2	36
41	The antioxidative potential of farrerol occurs via the activation of Nrf2 mediated HO-1 signaling in RAW 264.7 cells. <i>Chemico-Biological Interactions</i> , 2015, 239, 192-199.	4.0	34
42	Combinatorial screening of a panel of FDA-approved drugs identifies several candidates with anti-Ebola activities. <i>Biochemical and Biophysical Research Communications</i> , 2020, 522, 862-868.	2.1	34
43	Protease cleavage of RNF20 facilitates coronavirus replication via stabilization of SREBP1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	32
44	SARS-CoV-2 virus NSP14 Impairs NRF2/HMOX1 activation by targeting Sirtuin 1. , 2022, 19, 872-882.		32
45	Cytokine signatures associate with disease severity in children with <i>Mycoplasma pneumoniae</i> pneumonia. <i>Scientific Reports</i> , 2019, 9, 17853.	3.3	28
46	IL-27 Suppresses Antimicrobial Activity in Human Leprosy. <i>Journal of Investigative Dermatology</i> , 2015, 135, 2410-2417.	0.7	25
47	Complex Regulation Pattern of IRF3 Activation Revealed by a Novel Dimerization Reporter System. <i>Journal of Immunology</i> , 2016, 196, 4322-4330.	0.8	25
48	Generation of a Live Attenuated Influenza Vaccine that Elicits Broad Protection in Mice and Ferrets. <i>Cell Host and Microbe</i> , 2017, 21, 334-343.	11.0	24
49	Regulating Innate and Adaptive Immunity for Controlling SIV Infection by 25-Hydroxycholesterol. <i>Frontiers in Immunology</i> , 2018, 9, 2686.	4.8	23
50	Structural and functional analyses of human DDX41 DEAD domain. <i>Protein and Cell</i> , 2017, 8, 72-76.	11.0	20
51	Potential intervariant and intravariant recombination of Delta and Omicron variants. <i>Journal of Medical Virology</i> , 2022, 94, 4830-4838.	5.0	20
52	Disruption of Type I Interferon Induction by HIV Infection of T Cells. <i>PLoS ONE</i> , 2015, 10, e0137951.	2.5	18
53	Histone deacetylase 3 contributes to the antiviral innate immunity of macrophages by interacting with FOXK1 to regulate STAT1/2 transcription. <i>Cell Reports</i> , 2022, 38, 110302.	6.4	18
54	Network of co-mutations in Ebola virus genome predicts the disease lethality. <i>Cell Research</i> , 2015, 25, 753-756.	12.0	17

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55	E90 subunit vaccine protects mice from Zika virus infection and microcephaly. <i>Acta Neuropathologica Communications</i> , 2018, 6, 77.	5.2	17
56	ADP-ribosyltransferase PARP11 suppresses Zika virus in synergy with PARP12. <i>Cell and Bioscience</i> , 2021, 11, 116.	4.8	17
57	Autophagy links antimicrobial activity with antigen presentation in Langerhans cells. <i>JCI Insight</i> , 2019, 4, .	5.0	17
58	The Aftermath of Surviving Acute Radiation Hematopoietic Syndrome and its Mitigation. <i>Radiation Research</i> , 2019, 191, 323.	1.5	17
59	Zika virus NS3 protease induces bone morphogenetic protein-dependent brain calcification in human fetuses. <i>Nature Microbiology</i> , 2021, 6, 455-466.	13.3	15
60	Zika virus shedding in the stool and infection through the anorectal mucosa in mice. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-10.	6.5	14
61	4-(Nitrophenylsulfonyl)piperazines mitigate radiation damage to multiple tissues. <i>PLoS ONE</i> , 2017, 12, e0181577.	2.5	14
62	Mycobacterium tuberculosis detection via rolling circle amplification. <i>Analytical Methods</i> , 2011, 3, 267-273.	2.7	13
63	9,19-Cycloartenol glycoside G3 from <i>Cimicifuga simplex</i> regulates immune responses by modulating Th17/Treg ratio. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4917-4923.	3.0	13
64	A review of Chinese medicine for the treatment of psoriasis: principles, methods and analysis. <i>Chinese Medicine</i> , 2021, 16, 138.	4.0	13
65	CD40 Signaling and Autoimmunity. , 2001, 5, 51-61.		12
66	Functional Genomics Reveals Linkers Critical for Influenza Virus Polymerase. <i>Journal of Virology</i> , 2016, 90, 2938-2947.	3.4	12
67	Screening for Novel Small-Molecule Inhibitors Targeting the Assembly of Influenza Virus Polymerase Complex by a Bimolecular Luminescence Complementation-Based Reporter System. <i>Journal of Virology</i> , 2017, 91, .	3.4	12
68	Type-II Interferon-Inducible SERTAD3 Inhibits Influenza A Virus Replication by Blocking the Assembly of Viral RNA Polymerase Complex. <i>Cell Reports</i> , 2020, 33, 108342.	6.4	12
69	Postnatal immune activation causes social deficits in a mouse model of tuberous sclerosis: Role of microglia and clinical implications. <i>Science Advances</i> , 2021, 7, eabf2073.	10.3	12
70	Suppressing fatty acid synthase by type I interferon and chemical inhibitors as a broad spectrum anti-viral strategy against SARS-CoV-2. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 1624-1635.	12.0	12
71	Tamoxifen and clomiphene inhibit SARS-CoV-2 infection by suppressing viral entry. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 435.	17.1	11
72	Total withanolides ameliorates imiquimod-induced psoriasis-like skin inflammation. <i>Journal of Ethnopharmacology</i> , 2022, 285, 114895.	4.1	10

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73	Kynurenine-3-monooxygenase (KMO) broadly inhibits viral infections via triggering NMDAR/Ca ²⁺ influx and CaMKII/IRF3-mediated IFN- β production. PLoS Pathogens, 2022, 18, e1010366.	4.7	10
74	Isotetrandrine ameliorates tert-butyl hydroperoxide-induced oxidative stress through upregulation of heme oxygenase-1 expression. Experimental Biology and Medicine, 2016, 241, 1568-1576.	2.4	9
75	TLR3 Ligand PolyI:C Prevents Acute Pancreatitis Through the Interferon- β /Interferon- γ Receptor Signaling Pathway in a Caerulein-Induced Pancreatitis Mouse Model. Frontiers in Immunology, 2019, 10, 980.	4.8	9
76	Integrating computational modeling and functional assays to decipher the structure-function relationship of influenza virus PB1 protein. Scientific Reports, 2015, 4, 7192.	3.3	8
77	Comprehensive Mutagenesis of Herpes Simplex Virus 1 Genome Identifies UL42 as an Inhibitor of Type I Interferon Induction. Journal of Virology, 2019, 93, .	3.4	8
78	Rapid Determination of Saponins in the Honey-Fried Processing of Rhizoma Cimicifugae by Near Infrared Diffuse Reflectance Spectroscopy. Molecules, 2018, 23, 1617.	3.8	7
79	CDK2 Inhibition Enhances Antitumor Immunity by Increasing IFN Response to Endogenous Retroviruses. Cancer Immunology Research, 2022, 10, 525-539.	3.4	7
80	Modulation of Antiviral Immunity and Therapeutic Efficacy by 25-Hydroxycholesterol in Chronically SIV-Infected, ART-Treated Rhesus Macaques. Virologica Sinica, 2021, 36, 1197-1209.	3.0	6
81	Methods to Identify Immunogenic Peptides in SARS-CoV-2 Spike and Protective Monoclonal Antibodies in COVID-19 Patients. Small Methods, 2021, 5, 2100058.	8.6	6
82	Cellular Signaling Analysis shows antiviral, ribavirin-mediated ribosomal signaling modulation. Antiviral Research, 2019, 171, 104598.	4.1	5
83	Will Hydroxychloroquine Still Be a Game-Changer for COVID-19 by Combining Azithromycin?. Frontiers in Immunology, 2020, 11, 1969.	4.8	5
84	Gravity-dependent associations between interferon response and birth weight in placental malaria. Malaria Journal, 2020, 19, 280.	2.3	5
85	Homeoprotein SIX1 compromises antitumor immunity through TGF- β -mediated regulation of collagens. Cellular and Molecular Immunology, 2021, 18, 2660-2672.	10.5	5
86	GOLM1 suppresses autophagy-mediated anti-tumor immunity in hepatocellular carcinoma. Signal Transduction and Targeted Therapy, 2021, 6, 335.	17.1	4
87	Enhancing the HSV-1-mediated antitumor immune response by suppressing Bach1. Cellular and Molecular Immunology, 2022, 19, 516-526.	10.5	4
88	The Evolutionary Dance between Innate Host Antiviral Pathways and SARS-CoV-2. Pathogens, 2022, 11, 538.	2.8	4
89	Antibody engineering improves neutralization activity against K417 spike mutant SARS-CoV-2 variants. Cell and Bioscience, 2022, 12, 63.	4.8	4
90	New targets for controlling Ebola virus disease. National Science Review, 2015, 2, 266-267.	9.5	3

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91	TCR Ligand Discovery via T-Scan. Trends in Immunology, 2019, 40, 1075-1077.	6.8	2
92	"Gut-skin"axis: understanding psoriasis from the gut. Die Pharmazie, 2021, 76, 523-527.	0.5	1
93	Histone deacetylase 3 facilitates TNF α -mediated NF- κ B activation through suppressing CTSB induced RIP1 degradation and is required for host defense against bacterial infection. Cell and Bioscience, 2022, 12, .	4.8	1
94	Attenuation of Cellular Inflammation Using Glucocorticoid-Functionalized Copolymers. , 2007, , .		0
95	Biological Impact of Type I Interferon Induction Pathways beyond Their Antivirus Activity. , 0, , 155-175.		0
96	Role of Type I Interferon Signaling and Microglia in the Abnormal Long-term Potentiation and Object Place Recognition Deficits of Male Mice With a Mutation of the Tuberous Sclerosis 2 Gene. Biological Psychiatry Global Open Science, 2023, 3, 451-459.	2.2	0