

# Zhengfan Jiang

## List of Publications by Year in descending order

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69  
papers

8,815  
citations

66234

42  
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95083

68  
g-index

72  
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72  
docs citations

72  
times ranked

10300  
citing authors

#	ARTICLE	IF	CITATIONS
1	GENETIC ANALYSIS OF HOST RESISTANCE: Toll-Like Receptor Signaling and Immunity at Large. Annual Review of Immunology, 2006, 24, 353-389.	9.5	713
2	ERIS, an endoplasmic reticulum IFN stimulator, activates innate immune signaling through dimerization. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8653-8658.	3.3	702
3	CD14 is required for MyD88-independent LPS signaling. Nature Immunology, 2005, 6, 565-570.	7.0	574
4	Manganese Increases the Sensitivity of the cGAS-STING Pathway for Double-Stranded DNA and Is Required for the Host Defense against DNA Viruses. Immunity, 2018, 48, 675-687.e7.	6.6	369
5	Manganese is critical for antitumor immune responses via cGAS-STING and improves the efficacy of clinical immunotherapy. Cell Research, 2020, 30, 966-979.	5.7	349
6	Toll-like receptor 3-mediated activation of NF- $\kappa$ B and IRF3 diverges at Toll-IL-1 receptor domain-containing adapter inducing IFN- $\alpha$ . Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3533-3538.	3.3	336
7	Hypersusceptibility to Vesicular Stomatitis Virus Infection in Dicer1-Deficient Mice Is Due to Impaired miR24 and miR93 Expression. Immunity, 2007, 27, 123-134.	6.6	336
8	Activation of STAT6 by STING Is Critical for Antiviral Innate Immunity. Cell, 2011, 147, 436-446.	13.5	316
9	PCBP2 mediates degradation of the adaptor MAVS via the HECT ubiquitin ligase AIP4. Nature Immunology, 2009, 10, 1300-1308.	7.0	295
10	Poly(dI-dC)-induced Toll-like Receptor 3 (TLR3)-mediated Activation of NF- $\kappa$ B and MAP Kinase Is through an Interleukin-1 Receptor-associated Kinase (IRAK)-independent Pathway Employing the Signaling Components TLR3-TRAF6-TAK1-TAB2-PKR. Journal of Biological Chemistry, 2003, 278, 16713-16719.	1.6	271
11	Interleukin-1 (IL-1) Receptor-Associated Kinase-Dependent IL-1-Induced Signaling Complexes Phosphorylate TAK1 and TAB2 at the Plasma Membrane and Activate TAK1 in the Cytosol. Molecular and Cellular Biology, 2002, 22, 7158-7167.	1.1	263
12	STING directly activates autophagy to tune the innate immune response. Cell Death and Differentiation, 2019, 26, 1735-1749.	5.0	247
13	A Toll-Like Receptor 2-Responsive Lipid Effector Pathway Protects Mammals against Skin Infections with Gram-Positive Bacteria. Infection and Immunity, 2005, 73, 4512-4521.	1.0	205
14	Inflammasome Activation Triggers Caspase-1-Mediated Cleavage of cGAS to Regulate Responses to DNA Virus Infection. Immunity, 2017, 46, 393-404.	6.6	195
15	Apoptotic Caspases Suppress Type I Interferon Production via the Cleavage of cGAS, MAVS, and IRF3. Molecular Cell, 2019, 74, 19-31.e7.	4.5	183
16	Transfer of cGAMP into Bystander Cells via LRRC8 Volume-Regulated Anion Channels Augments STING-Mediated Interferon Responses and Anti-viral Immunity. Immunity, 2020, 52, 767-781.e6.	6.6	175
17	NEMO- $\kappa$ IKK $\beta$ Are Essential for IRF3 and NF- $\kappa$ B Activation in the cGAS-STING Pathway. Journal of Immunology, 2017, 199, 3222-3233.	0.4	169
18	Pellino 1 Is Required for Interleukin-1 (IL-1)-mediated Signaling through Its Interaction with the IL-1 Receptor-associated Kinase 4 (IRAK4)-IRAK-Tumor Necrosis Factor Receptor-associated Factor 6 (TRAF6) Complex. Journal of Biological Chemistry, 2003, 278, 10952-10956.	1.6	162

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19	R-form LPS, the master key to the activation of TLR4/MD-2-positive cells. <i>European Journal of Immunology</i> , 2006, 36, 701-711.	1.6	149
20	Metalloimmunology: The metal ion-controlled immunity. <i>Advances in Immunology</i> , 2020, 145, 187-241.	1.1	148
21	TRIM30 $\pm$ Is a Negative-Feedback Regulator of the Intracellular DNA and DNA Virus-Triggered Response by Targeting STING. <i>PLoS Pathogens</i> , 2015, 11, e1005012.	2.1	141
22	MAVS activates TBK1 and IKK $\mu$ through TRAFs in NEMO dependent and independent manner. <i>PLoS Pathogens</i> , 2017, 13, e1006720.	2.1	136
23	Mn <sup>2+</sup> Directly Activates cGAS and Structural Analysis Suggests Mn <sup>2+</sup> Induces a Noncanonical Catalytic Synthesis of 2 $\beta$ -cGAMP. <i>Cell Reports</i> , 2020, 32, 108053.	2.9	135
24	TRIM14 is a mitochondrial adaptor that facilitates retinoic acid-inducible gene-like receptor-mediated innate immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E245-54.	3.3	124
25	Details of Toll-like receptor:adapter interaction revealed by germ-line mutagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10961-10966.	3.3	122
26	cGAS $\beta$ -cGAMP $\beta$ -STING: The three musketeers of cytosolic DNA sensing and signaling. <i>IUBMB Life</i> , 2016, 68, 858-870.	1.5	107
27	Manganese salts function as potent adjuvants. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1222-1234.	4.8	106
28	Interleukin-1 (IL-1)-induced TAK1-dependent Versus MEKK3-dependent NF $\kappa$ B Activation Pathways Bifurcate at IL-1 Receptor-associated Kinase Modification. <i>Journal of Biological Chemistry</i> , 2007, 282, 6075-6089.	1.6	101
29	Protein Kinase R (PKR) Interacts with and Activates Mitogen-activated Protein Kinase Kinase 6 (MKK6) in Response to Double-stranded RNA Stimulation. <i>Journal of Biological Chemistry</i> , 2004, 279, 37670-37676.	1.6	97
30	The STING phase-separator suppresses innate immune signalling. <i>Nature Cell Biology</i> , 2021, 23, 330-340.	4.6	96
31	IRAK4 Kinase Activity Is Redundant for Interleukin-1 (IL-1) Receptor-associated Kinase Phosphorylation and IL-1 Responsiveness. <i>Journal of Biological Chemistry</i> , 2004, 279, 26748-26753.	1.6	95
32	The essential adaptors of innate immune signaling. <i>Protein and Cell</i> , 2013, 4, 27-39.	4.8	88
33	Identification and characterization of phosphodiesterases that specifically degrade 3 $\beta$ -cyclic GMP-AMP. <i>Cell Research</i> , 2015, 25, 539-550.	5.7	83
34	The kinase MST4 limits inflammatory responses through direct phosphorylation of the adaptor TRAF6. <i>Nature Immunology</i> , 2015, 16, 246-257.	7.0	82
35	Identification of a human NF $\kappa$ B-activating protein, TAB3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2028-2033.	3.3	78
36	p38 inhibition provides anti-DNA virus immunity by regulation of USP21 phosphorylation and STING activation. <i>Journal of Experimental Medicine</i> , 2017, 214, 991-1010.	4.2	76

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37	Golgi apparatus-synthesized sulfated glycosaminoglycans mediate polymerization and activation of the cGAMP sensor STING. <i>Immunity</i> , 2021, 54, 962-975.e8.	6.6	76
38	Nonspecific DNA Binding of cGAS N Terminus Promotes cGAS Activation. <i>Journal of Immunology</i> , 2017, 198, 3627-3636.	0.4	67
39	Poly(C)-binding protein 1 (PCBP1) mediates housekeeping degradation of mitochondrial antiviral signaling (MAVS). <i>Cell Research</i> , 2012, 22, 717-727.	5.7	66
40	Role of NF $\kappa$ B activator Act1 in CD40-mediated signaling in epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9386-9391.	3.3	64
41	Cyclophilin A-regulated ubiquitination is critical for RIG-I-mediated antiviral immune responses. <i>ELife</i> , 2017, 6, .	2.8	63
42	Sensing of cytoplasmic chromatin by cGAS activates innate immune response in SARS-CoV-2 infection. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 382.	7.1	53
43	Pseudorabies Virus dUTPase UL50 Induces Lysosomal Degradation of Type I Interferon Receptor 1 and Antagonizes the Alpha Interferon Response. <i>Journal of Virology</i> , 2017, 91, .	1.5	50
44	TLR4/CD14-mediated PI3K activation is an essential component of interferon-dependent VSV resistance in macrophages. <i>Molecular Immunology</i> , 2008, 45, 2790-2796.	1.0	46
45	Pellino 3b Negatively Regulates Interleukin-1-induced TAK1-dependent NF $\kappa$ B Activation. <i>Journal of Biological Chemistry</i> , 2008, 283, 14654-14664.	1.6	41
46	Caspases control antiviral innate immunity. <i>Cellular and Molecular Immunology</i> , 2017, 14, 736-747.	4.8	41
47	IRAK-Dependent Phosphorylation of Stat1 on Serine 727 in Response to Interleukin-1 and Effects on Gene Expression. <i>Journal of Interferon and Cytokine Research</i> , 2003, 23, 183-192.	0.5	40
48	NLRP3 inflammasome activation by Foot-and-mouth disease virus infection mainly induced by viral RNA and non-structural protein 2B. <i>RNA Biology</i> , 2020, 17, 335-349.	1.5	35
49	TBK1-Mediated DRP1 Targeting Confers Nucleic Acid Sensing to Reprogram Mitochondrial Dynamics and Physiology. <i>Molecular Cell</i> , 2020, 80, 810-827.e7.	4.5	35
50	Non-hematopoietic STAT6 induces epithelial tight junction dysfunction and promotes intestinal inflammation and tumorigenesis. <i>Mucosal Immunology</i> , 2019, 12, 1304-1315.	2.7	33
51	Manganese enhances the antitumor function of CD8+ T cells by inducing type I interferon production. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1571-1574.	4.8	32
52	Genetic Analysis of Innate Immunity. <i>Advances in Immunology</i> , 2006, 91, 175-226.	1.1	31
53	T6SS translocates a micropeptide to suppress STING-mediated innate immunity by sequestering manganese. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	27
54	Cyclic (di)nucleotides: the common language shared by microbe and host. <i>Current Opinion in Microbiology</i> , 2016, 30, 79-87.	2.3	25

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55	HCFC2 is needed for IRF1- and IRF2-dependent <i>Tlr3</i> transcription and for survival during viral infections. <i>Journal of Experimental Medicine</i> , 2017, 214, 3263-3277.	4.2	23
56	Inverse correlation of $\text{V}\hat{2}^+$ T $\hat{c}$ cell recovery with <i>EBV</i> reactivation after haematopoietic stem cell transplantation. <i>British Journal of Haematology</i> , 2018, 180, 276-285.	1.2	23
57	NLRP6 self-assembles into a linear molecular platform following LPS binding and ATP stimulation. <i>Scientific Reports</i> , 2020, 10, 198.	1.6	23
58	Antagonism between MyD88- and TRIF-dependent signals in B7RP-1 up-regulation. <i>European Journal of Immunology</i> , 2005, 35, 1918-1927.	1.6	18
59	Improved clinical outcomes of rhG-CSF-mobilized blood and marrow haploidentical transplantation compared to propensity score-matched rhG-CSF-primed peripheral blood stem cell haploidentical transplantation: a multicenter study. <i>Science China Life Sciences</i> , 2016, 59, 1139-1148.	2.3	13
60	Novel Mechanism for Cyclic Dinucleotide Degradation Revealed by Structural Studies of Vibrio Phosphodiesterase V-cGAP3. <i>Journal of Molecular Biology</i> , 2018, 430, 5080-5093.	2.0	13
61	STING-mediated DNA sensing in cancer immunotherapy. <i>Science China Life Sciences</i> , 2017, 60, 563-574.	2.3	12
62	Cross-talk between bacterial PAMPs and host PRRs. <i>National Science Review</i> , 2018, 5, 791-792.	4.6	12
63	Identification of a DNase activated in <i>Xenopus</i> egg extracts undergoing apoptosis. <i>Science Bulletin</i> , 1998, 43, 522-526.	1.7	6
64	A human cell-based SARS-CoV-2 vaccine elicits potent neutralizing antibody responses and protects mice from SARS-CoV-2 challenge. <i>Emerging Microbes and Infections</i> , 2021, 10, 1555-1573.	3.0	6
65	Differences in $\text{IFN}\hat{2}$ secretion upon Rab1 inactivation in cells exposed to distinct innate immune stimuli. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1590-1592.	4.8	6
66	Recent progress on the activation of the cGAS-STING pathway and its regulation by biomolecular condensation. <i>Journal of Molecular Cell Biology</i> , 2022, 14, .	1.5	5
67	Nuclear reassembly in vitro is independent of nucleosome/chromatin assembly. <i>Science in China Series C: Life Sciences</i> , 1998, 41, 512-519.	1.3	3
68	Accelerated progression of Hodgkin's-like lymphomas in golli deficient SJL mice. <i>Cellular Immunology</i> , 2016, 302, 41-49.	1.4	1
69	N4 DNA recognition by STAT6: structural and functional implications. <i>Protein and Cell</i> , 2017, 8, 240-241.	4.8	0