Shen-Ying Zhang

List of Publications by Citations

109 papers	11,011 citations	49 h-index	104 g-index
122 ext. papers	14,368 ext. citations	15.3 avg, IF	5.57 L-index

#	Paper	IF	Citations
109	Autoantibodies against type I IFNs in patients with life-threatening COVID-19. *Science*, **2020**, 370,	33.3	1090
108	Inborn errors of type I IFN immunity in patients with life-threatening COVID-19. *Science*, **2020**, 370,	33.3	994
107	Human CD14dim monocytes patrol and sense nucleic acids and viruses via TLR7 and TLR8 receptors. *Immunity*, **2010**, 33, 375-86	32.3	862
106	TLR3 deficiency in patients with herpes simplex encephalitis. *Science*, **2007**, 317, 1522-7	33.3	842
105	Herpes simplex virus encephalitis in human UNC-93B deficiency. *Science*, **2006**, 314, 308-12	33.3	601
104	Selective predisposition to bacterial infections in IRAK-4-deficient children: IRAK-4-dependent TLRs are otherwise redundant in protective immunity. *Journal of Experimental Medicine*, **2007**, 204, 2407-22	16.6	329
103	Human intracellular ISG15 prevents interferon-□ over-amplification and auto-inflammation. *Nature*, **2015**, 517, 89-93	50.4	311
102	Infectious disease. Life-threatening influenza and impaired interferon amplification in human IRF7 deficiency. *Science*, **2015**, 348, 448-53	33.3	285
101	Human TRAF3 adaptor molecule deficiency leads to impaired Toll-like receptor 3 response and susceptibility to herpes simplex encephalitis. *Immunity*, **2010**, 33, 400-11	32.3	262
100	Impaired intrinsic immunity to HSV-1 in human iPSC-derived TLR3-deficient CNS cells. *Nature*, **2012**, 491, 769-73	50.4	240
99	Herpes simplex encephalitis in children with autosomal recessive and dominant TRIF deficiency. *Journal of Clinical Investigation*, **2011**, 121, 4889-902	15.9	227
98	Herpes simplex virus encephalitis in a patient with complete TLR3 deficiency: TLR3 is otherwise redundant in protective immunity. *Journal of Experimental Medicine*, **2011**, 208, 2083-98	16.6	223
97	Inborn errors of interferon (IFN)-mediated immunity in humans: insights into the respective roles of IFN-alpha/beta, IFN-gamma, and IFN-lambda in host defense. *Immunological Reviews*, **2008**, 226, 29-40	11.3	220
96	Heterozygous TBK1 mutations impair TLR3 immunity and underlie herpes simplex encephalitis of childhood. *Journal of Experimental Medicine*, **2012**, 209, 1567-82	16.6	196
95	Characterization of Greater Middle Eastern genetic variation for enhanced disease gene discovery. *Nature Genetics*, **2016**, 48, 1071-6	36.3	192
94	IRAK-4- and MyD88-dependent pathways are essential for the removal of developing autoreactive B cells in humans. *Immunity*, **2008**, 29, 746-57	32.3	178
93	The mutation significance cutoff: gene-level thresholds for variant predictions. *Nature Methods*, **2016**, 13, 109-10	21.6	171

92	The human gene damage index as a gene-level approach to prioritizing exome variants. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13615-20	11.5	152
91	Parsing the Interferon Transcriptional Network and Its Disease Associations. *Cell*, **2016**, 164, 564-78	56.2	151
90	A partial form of recessive STAT1 deficiency in humans. *Journal of Clinical Investigation*, **2009**, 119, 1502-14	15.9	140
89	Inherited DOCK2 Deficiency in Patients with Early-Onset Invasive Infections. *New England Journal of Medicine*, **2015**, 372, 2409-22	59.2	125
88	Human Toll-like receptor-dependent induction of interferons in protective immunity to viruses. *Immunological Reviews*, **2007**, 220, 225-36	11.3	122
87	TLR3 immunity to infection in mice and humans. *Current Opinion in Immunology*, **2013**, 25, 19-33	7.8	114
86	TLR3 deficiency in herpes simplex encephalitis: high allelic heterogeneity and recurrence risk. *Neurology*, **2014**, 83, 1888-97	6.5	105
85	Inherited MST1 deficiency underlies susceptibility to EV-HPV infections. *PLoS ONE*, **2012**, 7, e44010	3.7	101
84	Life-threatening influenza pneumonitis in a child with inherited IRF9 deficiency. *Journal of Experimental Medicine*, **2018**, 215, 2567-2585	16.6	98
83	Inborn errors of anti-viral interferon immunity in humans. *Current Opinion in Virology*, **2011**, 1, 487-96	7.5	98
82	Human TBK1: A Gatekeeper of Neuroinflammation. *Trends in Molecular Medicine*, **2016**, 22, 511-527	11.5	98
81	Inborn errors in RNA polymerase III underlie severe varicella zoster virus infections. *Journal of Clinical Investigation*, **2017**, 127, 3543-3556	15.9	91
80	Autoantibodies neutralizing type I IFNs are present in 4% of uninfected individuals over 70 years old and account for 20% of COVID-19 deaths. *Science Immunology*, **2021**, 6,	28	91
79	Genetic susceptibility to herpes simplex virus 1 encephalitis in mice and humans. *Current Opinion in Allergy and Clinical Immunology*, **2007**, 7, 495-505	3.3	86
78	Severe influenza pneumonitis in children with inherited TLR3 deficiency. *Journal of Experimental Medicine*, **2019**, 216, 2038-2056	16.6	83
77	Host genetics of severe influenza: from mouse Mx1 to human IRF7. *Current Opinion in Immunology*, **2016**, 38, 109-20	7.8	81
76	Preexisting autoantibodies to type I IFNs underlie critical COVID-19 pneumonia in patients with APS-1. *Journal of Experimental Medicine*, **2021**, 218,	16.6	79
75	Inherited IFNAR1 deficiency in otherwise healthy patients with adverse reaction to measles and yellow fever live vaccines. *Journal of Experimental Medicine*, **2019**, 216, 2057-2070	16.6	77

74	Age-dependent Mendelian predisposition to herpes simplex virus type 1 encephalitis in childhood. *Journal of Pediatrics*, **2010**, 157, 623-9, 629.e1	3.6	75
73	IgM+IgD+CD27+ B cells are markedly reduced in IRAK-4-, MyD88-, and TIRAP- but not UNC-93B-deficient patients. *Blood*, **2012**, 120, 4992-5001	2.2	69
72	X-linked recessive TLR7 deficiency in ~1% of men under 60 years old with life-threatening COVID-19. *Science Immunology*, **2021**, 6,	28	67
71	SARS-CoV-2 induces human plasmacytoid predendritic cell diversification via UNC93B and IRAK4. *Journal of Experimental Medicine*, **2021**, 218,	16.6	65
70	Autosomal Recessive Cardiomyopathy Presenting as Acute Myocarditis. *Journal of the American College of Cardiology*, **2017**, 69, 1653-1665	15.1	64
69	Inborn Errors of RNA Lariat Metabolism in Humans with Brainstem Viral Infection. *Cell*, **2018**, 172, 952-965.e18	36.2	64
68	The human gene connectome as a map of short cuts for morbid allele discovery. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5558-63	11.5	59
67	NEMO is a key component of NF-B- and IRF-3-dependent TLR3-mediated immunity to herpes simplex virus. *Journal of Allergy and Clinical Immunology*, **2011**, 128, 610-7.e1-4	11.5	57
66	Primary immunodeficiencies of protective immunity to primary infections. *Clinical Immunology*, **2010**, 135, 204-9	9	57
65	Human primary immunodeficiencies of type I interferons. *Biochimie*, **2007**, 89, 878-83	4.6	56
64	Inborn errors underlying herpes simplex encephalitis: From TLR3 to IRF3. *Journal of Experimental Medicine*, **2015**, 212, 1342-3	16.6	55
63	Cleaved/associated TLR3 represents the primary form of the signaling receptor. *Journal of Immunology*, **2013**, 190, 764-73	5.3	55
62	Human SNORA31 variations impair cortical neuron-intrinsic immunity to HSV-1 and underlie herpes simplex encephalitis. *Nature Medicine*, **2019**, 25, 1873-1884	50.5	49
61	Auto-antibodies to type I IFNs can underlie adverse reactions to yellow fever live attenuated vaccine. *Journal of Experimental Medicine*, **2021**, 218,	16.6	49
60	A novel kindred with inherited STAT2 deficiency and severe viral illness. *Journal of Allergy and Clinical Immunology*, **2017**, 139, 1995-1997.e9	11.5	48
59	Revisiting human primary immunodeficiencies. *Journal of Internal Medicine*, **2008**, 264, 115-27	10.8	47
58	Human iPSC-derived trigeminal neurons lack constitutive TLR3-dependent immunity that protects cortical neurons from HSV-1 infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8775-E8782	11.5	46
57	SARS-CoV-2-related MIS-C: A key to the viral and genetic causes of Kawasaki disease?. *Journal of Experimental Medicine*, **2021**, 218,	16.6	45

56	Association of genetic variation in IL28B with hepatitis C treatment-induced viral clearance in the Chinese Han population. *Antiviral Therapy*, **2011**, 16, 141-7	1.6	38
55	Varicella-zoster virus CNS vasculitis and RNA polymerase III gene mutation in identical twins. *Neurology: Neuroimmunology and NeuroInflammation*, **2018**, 5, e500	9.1	38
54	Whole-exome sequencing to analyze population structure, parental inbreeding, and familial linkage. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 6713-8	11.5	37
53	Mendelian predisposition to herpes simplex encephalitis. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2013**, 112, 1091-7	3	35
52	Herpes simplex encephalitis in a patient with a distinctive form of inherited IFNAR1 deficiency. *Journal of Clinical Investigation*, **2021**, 131,	15.9	34
51	EVER2 deficiency is associated with mild T-cell abnormalities. *Journal of Clinical Immunology*, **2013**, 33, 14-21	5.7	33
50	Induced pluripotent stem cells: a novel frontier in the study of human primary immunodeficiencies. *Journal of Allergy and Clinical Immunology*, **2011**, 127, 1400-7.e4	11.5	33
49	Human inborn errors of immunity to herpes viruses. *Current Opinion in Immunology*, **2020**, 62, 106-122	7.8	33
48	PopViz: a webserver for visualizing minor allele frequencies and damage prediction scores of human genetic variations. *Bioinformatics*, **2018**, 34, 4307-4309	7.2	33
47	HGCS: an online tool for prioritizing disease-causing gene variants by biological distance. *BMC Genomics*, **2014**, 15, 256	4.5	31
46	Human inborn errors of immunity to infection affecting cells other than leukocytes: from the immune system to the whole organism. *Current Opinion in Immunology*, **2019**, 59, 88-100	7.8	30
45	Polyclonal expansion of TCR Vbeta 21.3 CD4 and CD8 T cells is a hallmark of Multisystem Inflammatory Syndrome in Children. *Science Immunology*, **2021**, 6,	28	28
44	Herpes simplex virus encephalitis of childhood: inborn errors of central nervous system cell-intrinsic immunity. *Human Genetics*, **2020**, 139, 911-918	6.3	26
43	Severe COVID-19 in the young and healthy: monogenic inborn errors of immunity?. *Nature Reviews Immunology*, **2020**, 20, 455-456	36.5	25
42	Lethal Influenza in Two Related Adults with Inherited GATA2 Deficiency. *Journal of Clinical Immunology*, **2018**, 38, 513-526	5.7	24
41	IFN-α2a Therapy in Two Patients with Inborn Errors of TLR3 and IRF3 Infected with SARS-CoV-2. *Journal of Clinical Immunology*, **2021**, 41, 26-27	5.7	24
40	From infectious diseases to primary immunodeficiencies. *Immunology and Allergy Clinics of North America*, **2008**, 28, 235-58, vii	3.3	23
39	Human genetic and immunological determinants of critical COVID-19 pneumonia.. *Nature*, **2022**,	50.4	23

38	MxA induction may predict sustained virologic responses of chronic hepatitis B patients with IFN-alpha treatment. *Journal of Interferon and Cytokine Research*, **2007**, 27, 809-18	3.5	20
37	TLR3 controls constitutive IFN-antiviral immunity in human fibroblasts and cortical neurons. *Journal of Clinical Investigation*, **2021**, 131,	15.9	19
36	Inherited deficiency of stress granule ZNFX1 in patients with monocytosis and mycobacterial disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	16
35	Human TANK-binding kinase 1 is required for early autophagy induction upon herpes simplex virus 1 infection. *Journal of Allergy and Clinical Immunology*, **2019**, 143, 765-769.e7	11.5	16
34	Deciphering Human Cell-Autonomous Anti-HSV-1 Immunity in the Central Nervous System. *Frontiers in Immunology*, **2015**, 6, 208	8.4	15
33	Addressing diagnostic challenges in primary immunodeficiencies: laboratory evaluation of Toll-like receptor- and NF-B-mediated immune responses. *Critical Reviews in Clinical Laboratory Sciences*, **2014**, 51, 112-23	9.4	15
32	Negative selection on human genes underlying inborn errors depends on disease outcome and both the mode and mechanism of inheritance. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	14
31	The proteome of Toll-like receptor 3-stimulated human immortalized fibroblasts: implications for susceptibility to herpes simplex virus encephalitis. *Journal of Allergy and Clinical Immunology*, **2013**, 131, 1157-66	11.5	11
30	SARS-CoV-2 induces human plasmacytoid pre-dendritic cell diversification via UNC93B and IRAK4 **2021**,		11
29	Broadly cross-reactive mimotope of hypervariable region 1 of hepatitis C virus derived from DNA shuffling and screened by phage display library. *Journal of Medical Virology*, **2003**, 71, 511-7	19.7	10
28	TIM3+ TRBV11-2 T cells and IFNsignature in patrolling monocytes and CD16+ NK cells delineate MIS-C.. *Journal of Experimental Medicine*, **2022**, 219,	16.6	9
27	Loss of DIAPH1 causes SCBMS, combined immunodeficiency, and mitochondrial dysfunction. *Journal of Allergy and Clinical Immunology*, **2021**, 148, 599-611	11.5	9
26	A monocyte/dendritic cell molecular signature of SARS-CoV-2-related multisystem inflammatory syndrome in children with severe myocarditis. *Med*, **2021**, 2, 1072-1092.e7	31.7	9
25	X-Linked TLR7 Deficiency Underlies Critical COVID-19 Pneumonia in a Male Patient with Ataxia-Telangiectasia. *Journal of Clinical Immunology*, **2021**, 42, 1	5.7	7
24	A global effort to dissect the human genetic basis of resistance to SARS-CoV-2 infection. *Nature Immunology*, **2021**,	19.1	7
23	Insufficient type I IFN immunity underlies life-threatening COVID-19 pneumonia. *Comptes Rendus - Biologies*, **2021**, 344, 19-25	1.4	7
22	T-cell Responses to HSV-1 in Persons Who Have Survived Childhood Herpes Simplex Encephalitis. *Pediatric Infectious Disease Journal*, **2017**, 36, 741-744	3.4	6
21	Heterozygous TLR3 Mutation in Patients with Hantavirus Encephalitis. *Journal of Clinical Immunology*, **2020**, 40, 1156-1162	5.7	6

20	Biochemically deleterious human NFKB1 variants underlie an autosomal dominant form of common variable immunodeficiency. *Journal of Experimental Medicine*, **2021**, 218,	16.6	6
19	Polymorphisms of microsomal triglyceride transfer protein in different hepatitis B virus-infected patients. *World Journal of Gastroenterology*, **2008**, 14, 5454-60	5.6	5
18	Type I interferons and SARS-CoV-2: from cells to organisms.. *Current Opinion in Immunology*, **2022**, 74, 172-182	7.8	4
17	Inherited IFNAR1 Deficiency in a Child with Both Critical COVID-19 Pneumonia and Multisystem Inflammatory Syndrome.. *Journal of Clinical Immunology*, **2022**, 1	5.7	4
16	Inborn errors of TLR3- or MDA5-dependent type I IFN immunity in children with enterovirus rhombencephalitis. *Journal of Experimental Medicine*, **2021**, 218,	16.6	4
15	Neuron-intrinsic immunity to viruses in mice and humans. *Current Opinion in Immunology*, **2021**, 72, 309-318	7.8	4
14	A computational approach for detecting physiological homogeneity in the midst of genetic heterogeneity. *American Journal of Human Genetics*, **2021**, 108, 1012-1025	11	3
13	The risk of COVID-19 death is much greater and age dependent with type I IFN autoantibodies.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2200413119	11.5	3
12	Expression of hepatitis C virus E2 ectodomain in E. coli and its application in the detection of anti-E2 antibodies in human sera. *Acta Biochimica Et Biophysica Sinica*, **2004**, 36, 57-63	2.8	2
11	Expression of hepatitis C virus hypervariable region 1 and its clinical significance. *World Journal of Gastroenterology*, **2003**, 9, 1003-7	5.6	2
10	Herpes simplex virus 2 encephalitis in a patient heterozygous for a TLR3 mutation. *Neurology: Genetics*, **2020**, 6, e532	3.8	2
9	A monocyte/dendritic cell molecular signature of SARS-CoV2-related multisystem inflammatory syndrome in children (MIS-C) with severe myocarditis		2
8	Life-Threatening Enterovirus 71 Encephalitis in Unrelated Children with Autosomal Dominant TLR3 Deficiency.. *Journal of Clinical Immunology*, **2022**, 1	5.7	1
7	Negative selection on human genes causing severe inborn errors depends on disease outcome and both the mode and mechanism of inheritance		1
6	Inherited disorders of IFN-α IFN-λ and NF-B-mediated immunity **2013**, 454-464		1
5	Superantigenic TCR Vbeta 21.3 signature in Multisystem Inflammatory Syndrome in Children		1
4	Inherited disorders of TLR, IL-1R, and NFB immunity **2020**, 869-883		0
3	Single-Cell and Bulk RNA-Sequencing Reveal Differences in Monocyte Susceptibility to Influenza A Virus Infection Between Africans and Europeans.. *Frontiers in Immunology*, **2021**, 12, 768189	8.4	0

2 Immunodeficiencies at the Interface of Innate and Adaptive Immunity **2019**, 509-522.e1

1 Mendelian Susceptibility to Infections with Viruses, Mycobacteria, Bacteria, and Candida **2016**, 407-415