

# Shen-Ying Zhang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Human genetic and immunological determinants of critical COVID-19 pneumonia.. <i>Nature</i> , <b>2022</b> ,	50.4	23
108	Life-Threatening Enterovirus 71 Encephalitis in Unrelated Children with Autosomal Dominant TLR3 Deficiency.. <i>Journal of Clinical Immunology</i> , <b>2022</b> , 1	5.7	1
107	Type I interferons and SARS-CoV-2: from cells to organisms.. <i>Current Opinion in Immunology</i> , <b>2022</b> , 74, 172-182	7.8	4
106	Inherited IFNAR1 Deficiency in a Child with Both Critical COVID-19 Pneumonia and Multisystem Inflammatory Syndrome.. <i>Journal of Clinical Immunology</i> , <b>2022</b> , 1	5.7	4
105	TIM3+ TRBV11-2 T cells and IFN $\gamma$ signature in patrolling monocytes and CD16+ NK cells delineate MIS-C.. <i>Journal of Experimental Medicine</i> , <b>2022</b> , 219,	16.6	9
104	The risk of COVID-19 death is much greater and age dependent with type I IFN autoantibodies.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2200413119 <sup>11.5</sup>	11.5	3
103	X-Linked TLR7 Deficiency Underlies Critical COVID-19 Pneumonia in a Male Patient with Ataxia-Telangiectasia. <i>Journal of Clinical Immunology</i> , <b>2021</b> , 42, 1	5.7	7
102	Inborn errors of TLR3- or MDA5-dependent type I IFN immunity in children with enterovirus rhombencephalitis. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	4
101	Single-Cell and Bulk RNA-Sequencing Reveal Differences in Monocyte Susceptibility to Influenza A Virus Infection Between Africans and Europeans.. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 768189	8.4	0
100	A global effort to dissect the human genetic basis of resistance to SARS-CoV-2 infection. <i>Nature Immunology</i> , <b>2021</b> ,	19.1	7
99	SARS-CoV-2 induces human plasmacytoid pre-dendritic cell diversification via UNC93B and IRAK4 <b>2021</b> ,		11
98	SARS-CoV-2-related MIS-C: A key to the viral and genetic causes of Kawasaki disease?. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	45
97	Preexisting autoantibodies to type I IFNs underlie critical COVID-19 pneumonia in patients with APS-1. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	79
96	Inherited deficiency of stress granule ZNFX1 in patients with monocytosis and mycobacterial disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	16
95	Polyclonal expansion of TCR Vbeta 21.3 CD4 and CD8 T cells is a hallmark of Multisystem Inflammatory Syndrome in Children. <i>Science Immunology</i> , <b>2021</b> , 6,	28	28
94	Insufficient type I IFN immunity underlies life-threatening COVID-19 pneumonia. <i>Comptes Rendus - Biologies</i> , <b>2021</b> , 344, 19-25	1.4	7
93	A computational approach for detecting physiological homogeneity in the midst of genetic heterogeneity. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 1012-1025	11	3

92	Herpes simplex encephalitis in a patient with a distinctive form of inherited IFNAR1 deficiency. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	34
91	TLR3 controls constitutive IFN- $\beta$ antiviral immunity in human fibroblasts and cortical neurons. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	19
90	SARS-CoV-2 induces human plasmacytoid dendritic cell diversification via UNC93B and IRAK4. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	65
89	Negative selection on human genes underlying inborn errors depends on disease outcome and both the mode and mechanism of inheritance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	14
88	Auto-antibodies to type I IFNs can underlie adverse reactions to yellow fever live attenuated vaccine. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	49
87	Loss of DIAPH1 causes SCBMS, combined immunodeficiency, and mitochondrial dysfunction. <i>Journal of Allergy and Clinical Immunology</i> , <b>2021</b> , 148, 599-611	11.5	9
86	Autoantibodies neutralizing type I IFNs are present in 4% of uninfected individuals over 70 years old and account for 20% of COVID-19 deaths. <i>Science Immunology</i> , <b>2021</b> , 6,	28	91
85	X-linked recessive TLR7 deficiency in ~1% of men under 60 years old with life-threatening COVID-19. <i>Science Immunology</i> , <b>2021</b> , 6,	28	67
84	A monocyte/dendritic cell molecular signature of SARS-CoV-2-related multisystem inflammatory syndrome in children with severe myocarditis. <i>Med</i> , <b>2021</b> , 2, 1072-1092.e7	31.7	9
83	Biochemically deleterious human NFKB1 variants underlie an autosomal dominant form of common variable immunodeficiency. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	6
82	Neuron-intrinsic immunity to viruses in mice and humans. <i>Current Opinion in Immunology</i> , <b>2021</b> , 72, 309-318	31.8	4
81	IFN- $\alpha$ Therapy in Two Patients with Inborn Errors of TLR3 and IRF3 Infected with SARS-CoV-2. <i>Journal of Clinical Immunology</i> , <b>2021</b> , 41, 26-27	5.7	24
80	Severe COVID-19 in the young and healthy: monogenic inborn errors of immunity?. <i>Nature Reviews Immunology</i> , <b>2020</b> , 20, 455-456	36.5	25
79	Inherited disorders of TLR, IL-1R, and NFB immunity <b>2020</b> , 869-883		0
78	Herpes simplex virus encephalitis of childhood: inborn errors of central nervous system cell-intrinsic immunity. <i>Human Genetics</i> , <b>2020</b> , 139, 911-918	6.3	26
77	Human inborn errors of immunity to herpes viruses. <i>Current Opinion in Immunology</i> , <b>2020</b> , 62, 106-122	7.8	33
76	Herpes simplex virus 2 encephalitis in a patient heterozygous for a TLR3 mutation. <i>Neurology: Genetics</i> , <b>2020</b> , 6, e532	3.8	2
75	Inborn errors of type I IFN immunity in patients with life-threatening COVID-19. <i>Science</i> , <b>2020</b> , 370,	33.3	994

74	Autoantibodies against type I IFNs in patients with life-threatening COVID-19. <i>Science</i> , <b>2020</b> , 370,	33.3	1090
73	Heterozygous TLR3 Mutation in Patients with Hantavirus Encephalitis. <i>Journal of Clinical Immunology</i> , <b>2020</b> , 40, 1156-1162	5.7	6
72	Severe influenza pneumonitis in children with inherited TLR3 deficiency. <i>Journal of Experimental Medicine</i> , <b>2019</b> , 216, 2038-2056	16.6	83
71	Human inborn errors of immunity to infection affecting cells other than leukocytes: from the immune system to the whole organism. <i>Current Opinion in Immunology</i> , <b>2019</b> , 59, 88-100	7.8	30
70	Immunodeficiencies at the Interface of Innate and Adaptive Immunity <b>2019</b> , 509-522.e1		
69	Inherited IFNAR1 deficiency in otherwise healthy patients with adverse reaction to measles and yellow fever live vaccines. <i>Journal of Experimental Medicine</i> , <b>2019</b> , 216, 2057-2070	16.6	77
68	Human SNORA31 variations impair cortical neuron-intrinsic immunity to HSV-1 and underlie herpes simplex encephalitis. <i>Nature Medicine</i> , <b>2019</b> , 25, 1873-1884	50.5	49
67	Human TANK-binding kinase 1 is required for early autophagy induction upon herpes simplex virus 1 infection. <i>Journal of Allergy and Clinical Immunology</i> , <b>2019</b> , 143, 765-769.e7	11.5	16
66	Inborn Errors of RNA Lariat Metabolism in Humans with Brainstem Viral Infection. <i>Cell</i> , <b>2018</b> , 172, 952-965.e18	65.18	64
65	Life-threatening influenza pneumonitis in a child with inherited IRF9 deficiency. <i>Journal of Experimental Medicine</i> , <b>2018</b> , 215, 2567-2585	16.6	98
64	Human iPSC-derived trigeminal neurons lack constitutive TLR3-dependent immunity that protects cortical neurons from HSV-1 infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E8775-E8782	11.5	46
63	Lethal Influenza in Two Related Adults with Inherited GATA2 Deficiency. <i>Journal of Clinical Immunology</i> , <b>2018</b> , 38, 513-526	5.7	24
62	Varicella-zoster virus CNS vasculitis and RNA polymerase III gene mutation in identical twins. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , <b>2018</b> , 5, e500	9.1	38
61	PopViz: a webserver for visualizing minor allele frequencies and damage prediction scores of human genetic variations. <i>Bioinformatics</i> , <b>2018</b> , 34, 4307-4309	7.2	33
60	A novel kindred with inherited STAT2 deficiency and severe viral illness. <i>Journal of Allergy and Clinical Immunology</i> , <b>2017</b> , 139, 1995-1997.e9	11.5	48
59	T-cell Responses to HSV-1 in Persons Who Have Survived Childhood Herpes Simplex Encephalitis. <i>Pediatric Infectious Disease Journal</i> , <b>2017</b> , 36, 741-744	3.4	6
58	Autosomal Recessive Cardiomyopathy Presenting as Acute Myocarditis. <i>Journal of the American College of Cardiology</i> , <b>2017</b> , 69, 1653-1665	15.1	64
57	Inborn errors in RNA polymerase III underlie severe varicella zoster virus infections. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 3543-3556	15.9	91

56	Characterization of Greater Middle Eastern genetic variation for enhanced disease gene discovery. <i>Nature Genetics</i> , <b>2016</b> , 48, 1071-6	36.3	192
55	Whole-exome sequencing to analyze population structure, parental inbreeding, and familial linkage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6713-8	11.5	37
54	The mutation significance cutoff: gene-level thresholds for variant predictions. <i>Nature Methods</i> , <b>2016</b> , 13, 109-10	21.6	171
53	Parsing the Interferon Transcriptional Network and Its Disease Associations. <i>Cell</i> , <b>2016</b> , 164, 564-78	56.2	151
52	Host genetics of severe influenza: from mouse Mx1 to human IRF7. <i>Current Opinion in Immunology</i> , <b>2016</b> , 38, 109-20	7.8	81
51	Mendelian Susceptibility to Infections with Viruses, Mycobacteria, Bacteria, and Candida <b>2016</b> , 407-415		
50	Human TBK1: A Gatekeeper of Neuroinflammation. <i>Trends in Molecular Medicine</i> , <b>2016</b> , 22, 511-527	11.5	98
49	Inherited DOCK2 Deficiency in Patients with Early-Onset Invasive Infections. <i>New England Journal of Medicine</i> , <b>2015</b> , 372, 2409-22	59.2	125
48	Infectious disease. Life-threatening influenza and impaired interferon amplification in human IRF7 deficiency. <i>Science</i> , <b>2015</b> , 348, 448-53	33.3	285
47	The human gene damage index as a gene-level approach to prioritizing exome variants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13615-20	11.5	152
46	Human intracellular ISG15 prevents interferon- $\beta$ over-amplification and auto-inflammation. <i>Nature</i> , <b>2015</b> , 517, 89-93	50.4	311
45	Deciphering Human Cell-Autonomous Anti-HSV-1 Immunity in the Central Nervous System. <i>Frontiers in Immunology</i> , <b>2015</b> , 6, 208	8.4	15
44	Inborn errors underlying herpes simplex encephalitis: From TLR3 to IRF3. <i>Journal of Experimental Medicine</i> , <b>2015</b> , 212, 1342-3	16.6	55
43	TLR3 deficiency in herpes simplex encephalitis: high allelic heterogeneity and recurrence risk. <i>Neurology</i> , <b>2014</b> , 83, 1888-97	6.5	105
42	HGCS: an online tool for prioritizing disease-causing gene variants by biological distance. <i>BMC Genomics</i> , <b>2014</b> , 15, 256	4.5	31
41	Addressing diagnostic challenges in primary immunodeficiencies: laboratory evaluation of Toll-like receptor- and NF- $\kappa$ B-mediated immune responses. <i>Critical Reviews in Clinical Laboratory Sciences</i> , <b>2014</b> , 51, 112-23	9.4	15
40	EVER2 deficiency is associated with mild T-cell abnormalities. <i>Journal of Clinical Immunology</i> , <b>2013</b> , 33, 14-21	5.7	33
39	TLR3 immunity to infection in mice and humans. <i>Current Opinion in Immunology</i> , <b>2013</b> , 25, 19-33	7.8	114

38	The proteome of Toll-like receptor 3-stimulated human immortalized fibroblasts: implications for susceptibility to herpes simplex virus encephalitis. <i>Journal of Allergy and Clinical Immunology</i> , <b>2013</b> , 131, 1157-66	11.5	11
37	Cleaved/associated TLR3 represents the primary form of the signaling receptor. <i>Journal of Immunology</i> , <b>2013</b> , 190, 764-73	5.3	55
36	Mendelian predisposition to herpes simplex encephalitis. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2013</b> , 112, 1091-7	3	35
35	The human gene connectome as a map of short cuts for morbid allele discovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5558-63	11.5	59
34	Inherited disorders of IFN- $\gamma$ and NF- $\kappa$ B-mediated immunity <b>2013</b> , 454-464		1
33	IgM+IgD+CD27+ B cells are markedly reduced in IRAK-4-, MyD88-, and TIRAP- but not UNC-93B-deficient patients. <i>Blood</i> , <b>2012</b> , 120, 4992-5001	2.2	69
32	Impaired intrinsic immunity to HSV-1 in human iPSC-derived TLR3-deficient CNS cells. <i>Nature</i> , <b>2012</b> , 491, 769-73	50.4	240
31	Inherited MST1 deficiency underlies susceptibility to EV-HPV infections. <i>PLoS ONE</i> , <b>2012</b> , 7, e44010	3.7	101
30	Heterozygous TBK1 mutations impair TLR3 immunity and underlie herpes simplex encephalitis of childhood. <i>Journal of Experimental Medicine</i> , <b>2012</b> , 209, 1567-82	16.6	196
29	Induced pluripotent stem cells: a novel frontier in the study of human primary immunodeficiencies. <i>Journal of Allergy and Clinical Immunology</i> , <b>2011</b> , 127, 1400-7.e4	11.5	33
28	NEMO is a key component of NF- $\kappa$ B- and IRF-3-dependent TLR3-mediated immunity to herpes simplex virus. <i>Journal of Allergy and Clinical Immunology</i> , <b>2011</b> , 128, 610-7.e1-4	11.5	57
27	Inborn errors of anti-viral interferon immunity in humans. <i>Current Opinion in Virology</i> , <b>2011</b> , 1, 487-96	7.5	98
26	Herpes simplex virus encephalitis in a patient with complete TLR3 deficiency: TLR3 is otherwise redundant in protective immunity. <i>Journal of Experimental Medicine</i> , <b>2011</b> , 208, 2083-98	16.6	223
25	Association of genetic variation in IL28B with hepatitis C treatment-induced viral clearance in the Chinese Han population. <i>Antiviral Therapy</i> , <b>2011</b> , 16, 141-7	1.6	38
24	Herpes simplex encephalitis in children with autosomal recessive and dominant TRIF deficiency. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 4889-902	15.9	227
23	Age-dependent Mendelian predisposition to herpes simplex virus type 1 encephalitis in childhood. <i>Journal of Pediatrics</i> , <b>2010</b> , 157, 623-9, 629.e1	3.6	75
22	Primary immunodeficiencies of protective immunity to primary infections. <i>Clinical Immunology</i> , <b>2010</b> , 135, 204-9	9	57
21	Human CD14dim monocytes patrol and sense nucleic acids and viruses via TLR7 and TLR8 receptors. <i>Immunity</i> , <b>2010</b> , 33, 375-86	32.3	862

20	Human TRAF3 adaptor molecule deficiency leads to impaired Toll-like receptor 3 response and susceptibility to herpes simplex encephalitis. <i>Immunity</i> , <b>2010</b> , 33, 400-11	32.3	262
19	A partial form of recessive STAT1 deficiency in humans. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 1502-14	14.9	140
18	Revisiting human primary immunodeficiencies. <i>Journal of Internal Medicine</i> , <b>2008</b> , 264, 115-27	10.8	47
17	IRAK-4- and MyD88-dependent pathways are essential for the removal of developing autoreactive B cells in humans. <i>Immunity</i> , <b>2008</b> , 29, 746-57	32.3	178
16	From infectious diseases to primary immunodeficiencies. <i>Immunology and Allergy Clinics of North America</i> , <b>2008</b> , 28, 235-58, vii	3.3	23
15	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. <i>Immunological Reviews</i> , <b>2008</b> , 226, 29-40	11.3	220
14	Polymorphisms of microsomal triglyceride transfer protein in different hepatitis B virus-infected patients. <i>World Journal of Gastroenterology</i> , <b>2008</b> , 14, 5454-60	5.6	5
13	Human Toll-like receptor-dependent induction of interferons in protective immunity to viruses. <i>Immunological Reviews</i> , <b>2007</b> , 220, 225-36	11.3	122
12	Selective predisposition to bacterial infections in IRAK-4-deficient children: IRAK-4-dependent TLRs are otherwise redundant in protective immunity. <i>Journal of Experimental Medicine</i> , <b>2007</b> , 204, 2407-22	16.6	329
11	Genetic susceptibility to herpes simplex virus 1 encephalitis in mice and humans. <i>Current Opinion in Allergy and Clinical Immunology</i> , <b>2007</b> , 7, 495-505	3.3	86
10	Human primary immunodeficiencies of type I interferons. <i>Biochimie</i> , <b>2007</b> , 89, 878-83	4.6	56
9	TLR3 deficiency in patients with herpes simplex encephalitis. <i>Science</i> , <b>2007</b> , 317, 1522-7	33.3	842
8	MxA induction may predict sustained virologic responses of chronic hepatitis B patients with IFN-alpha treatment. <i>Journal of Interferon and Cytokine Research</i> , <b>2007</b> , 27, 809-18	3.5	20
7	Herpes simplex virus encephalitis in human UNC-93B deficiency. <i>Science</i> , <b>2006</b> , 314, 308-12	33.3	601
6	Expression of hepatitis C virus E2 ectodomain in E. coli and its application in the detection of anti-E2 antibodies in human sera. <i>Acta Biochimica Et Biophysica Sinica</i> , <b>2004</b> , 36, 57-63	2.8	2
5	Broadly cross-reactive mimotope of hypervariable region 1 of hepatitis C virus derived from DNA shuffling and screened by phage display library. <i>Journal of Medical Virology</i> , <b>2003</b> , 71, 511-7	19.7	10
4	Expression of hepatitis C virus hypervariable region 1 and its clinical significance. <i>World Journal of Gastroenterology</i> , <b>2003</b> , 9, 1003-7	5.6	2
3	Negative selection on human genes causing severe inborn errors depends on disease outcome and both the mode and mechanism of inheritance		1

2	Superantigenic TCR Vbeta 21.3 signature in Multisystem Inflammatory Syndrome in Children	1
1	A monocyte/dendritic cell molecular signature of SARS-CoV2-related multisystem inflammatory syndrome in children (MIS-C) with severe myocarditis	2