

# Feng Shao

## List of Publications by Year in descending order

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109  
papers

30,666  
citations

20817

60  
h-index

26613

107  
g-index

112  
all docs

112  
docs citations

112  
times ranked

26043  
citing authors

#	ARTICLE	IF	CITATIONS
1	H7N9 virus infection triggers lethal cytokine storm by activating gasdermin E-mediated pyroptosis of lung alveolar epithelial cells. <i>National Science Review</i> , 2022, 9, nwab137.	9.5	45
2	Chemoselective and Diastereoselective Synthesis of <i>C</i> -Aryl Nucleoside Analogues by Nickel-Catalyzed Cross-Coupling of Furanosyl Acetates with Aryl Iodides. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	33
3	Chemoselective and Diastereoselective Synthesis of <i>C</i> -Aryl Nucleoside Analogues by Nickel-Catalyzed Cross-Coupling of Furanosyl Acetates with Aryl Iodides. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	10
4	Molecular mechanisms and functions of pyroptosis. <i>Journal of Molecular Biology</i> , 2022, 434, 167461.	4.2	14
5	ARF GTPases activate Salmonella effector SopF to ADP-ribosylate host V-ATPase and inhibit endomembrane damage-induced autophagy. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 67-77.	8.2	29
6	Calmodulin Binding Activates <i>Chromobacterium</i> CopC Effector to ADP-Riboxanate Host Apoptotic Caspases. <i>MBio</i> , 2022, 13, e0069022.	4.1	12
7	NLRP3 inflammasome induces CD4+ T cell loss in chronically HIV-1-infected patients. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	59
8	Bacterial detection by NAIP/NLRC4 elicits prompt contractions of intestinal epithelial cell layers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	35
9	NINJ1, rupturing swollen membranes for cataclysmic cell lysis. <i>Molecular Cell</i> , 2021, 81, 1370-1371.	9.7	18
10	Gasdermins: making pores for pyroptosis. <i>Nature Reviews Immunology</i> , 2021, 21, 620-621.	22.7	45
11	Shigella evades pyroptosis by arginine ADP-ribosylation of caspase-11. <i>Nature</i> , 2021, 599, 290-295.	27.8	93
12	The gasdermins, a protein family executing cell death and inflammation. <i>Nature Reviews Immunology</i> , 2020, 20, 143-157.	22.7	881
13	IL-22-induced cell extrusion and IL-18-induced cell death prevent and cure rotavirus infection. <i>Science Immunology</i> , 2020, 5, .	11.9	27
14	The <i>Yersinia</i> Type III Secretion System as a Tool for Studying Cytosolic Innate Immune Surveillance. <i>Annual Review of Microbiology</i> , 2020, 74, 221-245.	7.3	13
15	N-GSDMD trafficking to neutrophil organelles facilitates IL-1 $\beta$ release independently of plasma membrane pores and pyroptosis. <i>Nature Communications</i> , 2020, 11, 2212.	12.8	270
16	Arginine GlcNAcylation of Rab small GTPases by the pathogen Salmonella Typhimurium. <i>Communications Biology</i> , 2020, 3, 287.	4.4	27
17	A bioorthogonal system reveals antitumour immune function of pyroptosis. <i>Nature</i> , 2020, 579, 421-426.	27.8	587
18	Structural Mechanism for GSDMD Targeting by Autoprocessed Caspases in Pyroptosis. <i>Cell</i> , 2020, 180, 941-955.e20.	28.9	382

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19	Granzyme A from cytotoxic lymphocytes cleaves GSDMB to trigger pyroptosis in target cells. <i>Science</i> , 2020, 368, .	12.6	716
20	A Bacterial Effector Reveals the V-ATPase-ATG16L1 Axis that Initiates Xenophagy. <i>Cell</i> , 2019, 178, 552-566.e20.	28.9	212
21	Improving mass spectrometry analysis of protein structures with arginine-selective chemical cross-linkers. <i>Nature Communications</i> , 2019, 10, 3911.	12.8	45
22	Structural mechanism for guanylate-binding proteins (GBPs) targeting by the Shigella E3 ligase IpaH9.8. <i>PLoS Pathogens</i> , 2019, 15, e1007876.	4.7	39
23	The N $\epsilon$ -ubiquitin ligase UBR2 mediates NLRP1B inflammasome activation by anthrax lethal toxin. <i>EMBO Journal</i> , 2019, 38, e101996.	7.8	78
24	Inflammasome Activation Triggers Blood Clotting and Host Death through Pyroptosis. <i>Immunity</i> , 2019, 50, 1401-1411.e4.	14.3	246
25	Innate immunity to intracellular LPS. <i>Nature Immunology</i> , 2019, 20, 527-533.	14.5	342
26	Structural and Functional Insights into Host Death Domains Inactivation by the Bacterial Arginine GlcNAcyltransferase Effector. <i>Molecular Cell</i> , 2019, 74, 922-935.e6.	9.7	43
27	Legionella effector SetA as a general O-glucosyltransferase for eukaryotic proteins. <i>Nature Chemical Biology</i> , 2019, 15, 213-216.	8.0	21
28	Leishmania Lipophosphoglycan Triggers Caspase-11 and the Non-canonical Activation of the NLRP3 Inflammasome. <i>Cell Reports</i> , 2019, 26, 429-437.e5.	6.4	91
29	A hybridization-chain-reaction-based method for amplifying immunosignals. <i>Nature Methods</i> , 2018, 15, 275-278.	19.0	91
30	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.	11.2	4,036
31	Gasdermin D plays a key role as a pyroptosis executor of non-alcoholic steatohepatitis in humans and mice. <i>Journal of Hepatology</i> , 2018, 68, 773-782.	3.7	276
32	Synthetic glycan-based TLR4 agonists targeting caspase-4/11 for the development of adjuvants and immunotherapeutics. <i>Chemical Science</i> , 2018, 9, 3957-3963.	7.4	17
33	Bacterial infection and symbiosis. <i>Molecular Biology of the Cell</i> , 2018, 29, 683-684.	2.1	1
34	Inflammatory Caspases: Activation and Cleavage of Gasdermin-D In Vitro and During Pyroptosis. <i>Methods in Molecular Biology</i> , 2018, 1714, 131-148.	0.9	51
35	The Mitochondrial Apoptotic Effectors BAX/BAK Activate Caspase-3 and -7 to Trigger NLRP3 Inflammasome and Caspase-8 Driven IL-1 $\beta$ Activation. <i>Cell Reports</i> , 2018, 25, 2339-2353.e4.	6.4	164
36	Caspase-8 induces cleavage of gasdermin D to elicit pyroptosis during <i>Yersinia</i> infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10888-E10897.	7.1	541

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37	N <sup>ε</sup> -fatty acylation of multiple membrane-associated proteins by Shigella IcsB effector to modulate host function. <i>Nature Microbiology</i> , 2018, 3, 996-1009.	13.3	65
38	Growing a gasdermin pore in membranes of pyroptotic cells. <i>EMBO Journal</i> , 2018, 37, .	7.8	15
39	Sequence determinants of specific pattern-recognition of bacterial ligands by the NAIP <sup>1</sup> -NLRC4 inflammasome. <i>Cell Discovery</i> , 2018, 4, 22.	6.7	18
40	Alpha-kinase 1 is a cytosolic innate immune receptor for bacterial ADP-heptose. <i>Nature</i> , 2018, 561, 122-126.	27.8	165
41	SnapShot: The Noncanonical Inflammasome. <i>Cell</i> , 2017, 168, 544-544.e1.	28.9	83
42	Chemotherapy drugs induce pyroptosis through caspase-3 cleavage of a gasdermin. <i>Nature</i> , 2017, 547, 99-103.	27.8	1,793
43	Pyroptosis: Gasdermin-Mediated Programmed Necrotic Cell Death. <i>Trends in Biochemical Sciences</i> , 2017, 42, 245-254.	7.5	1,911
44	Modulation of membrane phosphoinositide dynamics by the phosphatidylinositide 4-kinase activity of the Legionella LepB effector. <i>Nature Microbiology</i> , 2017, 2, 16236.	13.3	60
45	N <sup>ε</sup> -Fatty acylation of Rho GTPases by a MARTX toxin effector. <i>Science</i> , 2017, 358, 528-531.	12.6	42
46	Ubiquitination and degradation of GBPs by a Shigella effector to suppress host defence. <i>Nature</i> , 2017, 551, 378-383.	27.8	158
47	Epithelial cells detect functional type III secretion system of enteropathogenic Escherichia coli through a novel NF- $\kappa$ B signaling pathway. <i>PLoS Pathogens</i> , 2017, 13, e1006472.	4.7	22
48	Bacterial effector NleL promotes enterohemorrhagic E. coli-induced attaching and effacing lesions by ubiquitylating and inactivating JNK. <i>PLoS Pathogens</i> , 2017, 13, e1006534.	4.7	28
49	An endogenous caspase-11 ligand elicits interleukin-1 release from living dendritic cells. <i>Science</i> , 2016, 352, 1232-1236.	12.6	419
50	A Burkholderia Type VI Effector Deamidates Rho GTPases to Activate the Pysin Inflammasome and Trigger Inflammation. <i>Cell Host and Microbe</i> , 2016, 19, 664-674.	11.0	140
51	Genetic functions of the NAIP family of inflammasome receptors for bacterial ligands in mice. <i>Journal of Experimental Medicine</i> , 2016, 213, 647-656.	8.5	81
52	Site-specific phosphorylation and microtubule dynamics control Pysin inflammasome activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4857-66.	7.1	198
53	Growth inhibition of cytosolic Salmonella by caspase-1 and caspase-11 precedes host cell death. <i>Nature Communications</i> , 2016, 7, 13292.	12.8	106
54	Pore-forming activity and structural autoinhibition of the gasdermin family. <i>Nature</i> , 2016, 535, 111-116.	27.8	1,812

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55	Diverse mechanisms for inflammasome sensing of cytosolic bacteria and bacterial virulence. <i>Current Opinion in Microbiology</i> , 2016, 29, 37-42.	5.1	54
56	A polar-localized iron-binding protein determines the polar targeting of <i>Burkholderia</i> BimA autotransporter and actin tail formation. <i>Cellular Microbiology</i> , 2015, 17, 408-424.	2.1	20
57	Non-canonical activation of inflammatory caspases by cytosolic LPS in innate immunity. <i>Current Opinion in Immunology</i> , 2015, 32, 78-83.	5.5	210
58	Feng Shao: Getting a sense for the defense. <i>Journal of Cell Biology</i> , 2015, 210, 174-175.	5.2	0
59	The NALP4 inflammasome in innate immune detection of bacterial flagellin and type III secretion apparatus. <i>Immunological Reviews</i> , 2015, 265, 85-102.	6.0	173
60	Sweet Talk: Protein Glycosylation in Bacterial Interaction With the Host. <i>Trends in Microbiology</i> , 2015, 23, 630-641.	7.7	93
61	Structural and biochemical basis for induced self-propagation of NLRC4. <i>Science</i> , 2015, 350, 399-404.	12.6	282
62	Cleavage of GSDMD by inflammatory caspases determines pyroptotic cell death. <i>Nature</i> , 2015, 526, 660-665.	27.8	4,072
63	Structure and Specificity of the Bacterial Cysteine Methyltransferase Effector NleE Suggests a Novel Substrate in Human DNA Repair Pathway. <i>PLoS Pathogens</i> , 2014, 10, e1004522.	4.7	24
64	Synthesis of and Specific Antibody Generation for Glycopeptides with Arginine GlcNAcylation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14517-14521.	13.8	49
65	The immunological function of familial Mediterranean fever disease protein Pylrin. <i>Science China Life Sciences</i> , 2014, 57, 1156-1161.	4.9	29
66	Inflammatory caspases are innate immune receptors for intracellular LPS. <i>Nature</i> , 2014, 514, 187-192.	27.8	1,665
67	An Iron-Containing Dodecameric Heptosyltransferase Family Modifies Bacterial Autotransporters in Pathogenesis. <i>Cell Host and Microbe</i> , 2014, 16, 351-363.	11.0	47
68	Innate immune sensing of bacterial modifications of Rho GTPases by the Pylrin inflammasome. <i>Nature</i> , 2014, 513, 237-241.	27.8	664
69	A structural mechanism for bacterial autotransporter glycosylation by a dodecameric heptosyltransferase family. <i>ELife</i> , 2014, 3, .	6.0	30
70	Pathogen blocks host death receptor signalling by arginine GlcNAcylation of death domains. <i>Nature</i> , 2013, 501, 242-246.	27.8	247
71	Human NAIP and mouse NAIP1 recognize bacterial type III secretion needle protein for inflammasome activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14408-14413.	7.1	333
72	SET domain bacterial effectors target heterochromatin protein 1 to activate host rDNA transcription. <i>EMBO Reports</i> , 2013, 14, 733-740.	4.5	75

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73	Structural analyses of Legionella LepB reveal a new GAP fold that catalytically mimics eukaryotic RasGAP. Cell Research, 2013, 23, 775-787.	12.0	26
74	The Shigella Type Three Secretion System Effector OspG Directly and Specifically Binds to Host Ubiquitin for Activation. PLoS ONE, 2013, 8, e57558.	2.5	43
75	YopT Protease and its Homologs. , 2013, , 2170-2174.		0
76	VipD of Legionella pneumophila Targets Activated Rab5 and Rab22 to Interfere with Endosomal Trafficking in Macrophages. PLoS Pathogens, 2012, 8, e1003082.	4.7	89
77	Structural mechanism of ubiquitin and NEDD8 deamidation catalyzed by bacterial effectors that induce macrophage-specific apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20395-20400.	7.1	41
78	NLRC5: a NOD-like receptor protein with many faces in immune regulation. Cell Research, 2012, 22, 1099-1101.	12.0	23
79	Cysteine methylation disrupts ubiquitin-chain sensing in NF- $\kappa$ B activation. Nature, 2012, 481, 204-208.	27.8	167
80	Structurally Distinct Bacterial TBC-like GAPs Link Arf GTPase to Rab1 Inactivation to Counteract Host Defenses. Cell, 2012, 150, 1029-1041.	28.9	198
81	Preventing bacterial DNA release and absent in melanoma 2 inflammasome activation by a Legionella effector functioning in membrane trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6193-6198.	7.1	109
82	Sensing bacterial infections by NAIIP receptors in NLRC4 inflammasome activation. Protein and Cell, 2012, 3, 98-105.	11.0	30
83	Manipulation of host vesicular trafficking and innate immune defence by Legionella Dot/Icm effectors. Cellular Microbiology, 2011, 13, 1870-1880.	2.1	60
84	Biochemistry and cell signaling taught by bacterial effectors. Trends in Biochemical Sciences, 2011, 36, 532-540.	7.5	41
85	The NLRC4 inflammasome receptors for bacterial flagellin and type III secretion apparatus. Nature, 2011, 477, 596-600.	27.8	1,050
86	A bacterial effector targets host DH-PH domain RhoGEFs and antagonizes macrophage phagocytosis. EMBO Journal, 2010, 29, 1363-1376.	7.8	83
87	Structural mechanism of host Rab1 activation by the bifunctional Legionella type IV effector SidM/DrrA. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4699-4704.	7.1	86
88	Glutamine Deamidation and Dysfunction of Ubiquitin/NEDD8 Induced by a Bacterial Effector Family. Science, 2010, 329, 1215-1218.	12.6	176
89	Chemical probing reveals insights into the signaling mechanism of inflammasome activation. Cell Research, 2010, 20, 1289-1305.	12.0	91
90	A bacterial type III effector family uses the papain-like hydrolytic activity to arrest the host cell cycle. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3716-3721.	7.1	61

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91	A Family of Bacterial Cysteine Protease Type III Effectors Utilizes Acylation-dependent and -independent Strategies to Localize to Plasma Membranes. <i>Journal of Biological Chemistry</i> , 2009, 284, 15867-15879.	3.4	92
92	A <i>Legionella</i> type IV effector activates the NF- $\kappa$ B pathway by phosphorylating the I $\kappa$ B family of inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13725-13730.	7.1	142
93	Cullin Mediates Degradation of RhoA through Evolutionarily Conserved BTB Adaptors to Control Actin Cytoskeleton Structure and Cell Movement. <i>Molecular Cell</i> , 2009, 35, 841-855.	9.7	245
94	Structure of a <i>Shigella</i> effector reveals a new class of ubiquitin ligases. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 1302-1308.	8.2	154
95	Biochemical functions of <i>Yersinia</i> type III effectors. <i>Current Opinion in Microbiology</i> , 2008, 11, 21-29.	5.1	50
96	The Phosphothreonine Lyase Activity of a Bacterial Type III Effector Family. <i>Science</i> , 2007, 315, 1000-1003.	12.6	378
97	A <i>Pseudomonas syringae</i> Effector Inactivates MAPKs to Suppress PAMP-Induced Immunity in Plants. <i>Cell Host and Microbe</i> , 2007, 1, 175-185.	11.0	585
98	Structural Insights into the Enzymatic Mechanism of the Pathogenic MAPK Phosphothreonine Lyase. <i>Molecular Cell</i> , 2007, 28, 899-913.	9.7	114
99	Signaling from p53 to NF- $\kappa$ B Determines the Chemotherapy Responsiveness of Neuroblastoma. <i>Neoplasia</i> , 2006, 8, 967-977.	5.3	28
100	Identification of a Bacterial Type III Effector Family with G Protein Mimicry Functions. <i>Cell</i> , 2006, 124, 133-145.	28.9	246
101	Signaling from p53 to NF-kappa B determines the chemotherapy responsiveness of neuroblastoma. <i>Neoplasia</i> , 2006, 8, 964-74.	5.3	12
102	The crystal structure of <i>Pseudomonas</i> avirulence protein AvrPphB: A papain-like fold with a distinct substrate-binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 302-307.	7.1	113
103	Cleavage of <i>Arabidopsis</i> PBS1 by a Bacterial Type III Effector. <i>Science</i> , 2003, 301, 1230-1233.	12.6	504
104	Biochemical characterization of the <i>Yersinia</i> YopT protease: Cleavage site and recognition elements in Rho GTPases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 904-909.	7.1	155
105	YopT Is a Cysteine Protease Cleaving Rho Family GTPases. , 2003, 529, 79-84.		34
106	A <i>Yersinia</i> Effector and a <i>Pseudomonas</i> Avirulence Protein Define a Family of Cysteine Proteases Functioning in Bacterial Pathogenesis. <i>Cell</i> , 2002, 109, 575-588.	28.9	417
107	<i>Yersinia</i> effectors target mammalian signalling pathways. <i>Cellular Microbiology</i> , 2002, 4, 201-211.	2.1	73
108	NF- $\kappa$ B Activation Mediates Doxorubicin-induced Cell Death in N-type Neuroblastoma Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 48921-48929.	3.4	131

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109	A Hybridization Chain Reaction-based Method for Amplifying Immunosignals. Protocol Exchange, 0, , .	0.3	2