Shao Feng

List of Publications by Year
in descending order

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95 papers	28,794 citations	34105 52 h-index	39675 94 g-index
105 all docs	105 docs citations	105 times ranked	24512 citing authors

#	Article	IF	Citations
1	H7N9 virus infection triggers lethal cytokine storm by activating gasdermin E-mediated pyroptosis of lung alveolar epithelial cells. National Science Review, 2022, 9, nwab137.	9.5	45
2	Chemoselective and Diastereoselective Synthesis of Câ€Aryl Nucleoside Analogues by Nickelâ€Catalyzed Crossâ€Coupling of Furanosyl Acetates with Aryl Iodides. Angewandte Chemie - International Edition, 2022, 61, .	13.8	33
3	Chemoselective and Diastereoselective Synthesis of Câ€Aryl Nucleoside Analogues by Nickelâ€Catalyzed Crossâ€Coupling of Furanosyl Acetates with Aryl Iodides. Angewandte Chemie, 2022, 134, .	2.0	10
4	Molecular mechanisms and functions of pyroptosis. Journal of Molecular Biology, 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. Nature Structural and Molecular Biology, 2022, 29, 67-77.	8.2	29
6	Calmodulin Binding Activates Chromobacterium CopC Effector to ADP-Riboxanate Host Apoptotic Caspases. MBio, 2022, 13, e0069022.	4.1	12
7	Bacterial detection by NAIP/NLRC4 elicits prompt contractions of intestinal epithelial cell layers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	35
8	NINJ1, rupturing swollen membranes for cataclysmic cell lysis. Molecular Cell, 2021, 81, 1370-1371.	9.7	18
9	Gasdermins: making pores for pyroptosis. Nature Reviews Immunology, 2021, 21, 620-621.	22.7	45
10	Shigella evades pyroptosis by arginine ADP-riboxanation of caspase-11. Nature, 2021, 599, 290-295.	27.8	93
11	The gasdermins, a protein family executing cell death and inflammation. Nature Reviews Immunology, 2020, 20, 143-157.	22.7	881
12	IL-22â€“induced cell extrusion and IL-18â€“induced cell death prevent and cure rotavirus infection. Science Immunology, 2020, 5, .	11.9	27
13	The Yersinia Type III Secretion System as a Tool for Studying Cytosolic Innate Immune Surveillance. Annual Review of Microbiology, 2020, 74, 221-245.	7.3	13
14	N-GSDMD trafficking to neutrophil organelles facilitates IL-1Î² release independently of plasma membrane pores and pyroptosis. Nature Communications, 2020, 11, 2212.	12.8	270
15	Arginine GlcNAcylation of Rab small GTPases by the pathogen Salmonella Typhimurium. Communications Biology, 2020, 3, 287.	4.4	27
16	A bioorthogonal system reveals antitumour immune function of pyroptosis. Nature, 2020, 579, 421-426.	27.8	587
17	Structural Mechanism for GSDMD Targeting by Autoprocessed Caspases in Pyroptosis. Cell, 2020, 180, 941-955.e20.	28.9	382
18	Granzyme A from cytotoxic lymphocytes cleaves GSDMB to trigger pyroptosis in target cells. Science, 2020, 368, .	12.6	716

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19	A Bacterial Effector Reveals the V-ATPase-ATG16L1 Axis that Initiates Xenophagy. Cell, 2019, 178, 552-566.e20.	28.9	212
20	Improving mass spectrometry analysis of protein structures with arginine-selective chemical cross-linkers. Nature Communications, 2019, 10, 3911.	12.8	45
21	Structural mechanism for guanylate-binding proteins (GBPs) targeting by the Shigella E3 ligase IpaH9.8. PLoS Pathogens, 2019, 15, e1007876.	4.7	39
22	The Nâ€end rule ubiquitin ligase UBR2 mediates NLRP1B inflammasome activation by anthrax lethal toxin. EMBO Journal, 2019, 38, e101996.	7.8	78
23	Inflammasome Activation Triggers Blood Clotting and Host Death through Pyroptosis. Immunity, 2019, 50, 1401-1411.e4.	14.3	246
24	Metabolic intermediate acetyl phosphate modulates bacterial virulence via acetylation. Emerging Microbes and Infections, 2019, 8, 55-69.	6.5	37
25	Innate immunity to intracellular LPS. Nature Immunology, 2019, 20, 527-533.	14.5	342
26	Structural and Functional Insights into Host Death Domains Inactivation by the Bacterial Arginine GlcNAcyltransferase Effector. Molecular Cell, 2019, 74, 922-935.e6.	9.7	43
27	Legionella effector SetA as a general O-glucosyltransferase for eukaryotic proteins. Nature Chemical Biology, 2019, 15, 213-216.	8.0	21
28	A New Application of Multimodality Radiomics Improves Diagnostic Accuracy of Nonpalpable Breast Lesions in Patients with Microcalcifications-Only in Mammography. Medical Science Monitor, 2019, 25, 9786-9793.	1.1	13
29	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541.	11.2	4,036
30	Mechanisms and Consequences of Inflammasome Activation. Journal of Molecular Biology, 2018, 430, 131-132.	4.2	10
31	Gasdermin D plays a key role as a pyroptosis executor of non-alcoholic steatohepatitis in humans and mice. Journal of Hepatology, 2018, 68, 773-782.	3.7	276
32	Synthetic glycan-based TLR4 agonists targeting caspase-4/11 for the development of adjuvants and immunotherapeutics. Chemical Science, 2018, 9, 3957-3963.	7.4	17
33	Bacterial infection and symbiosis. Molecular Biology of the Cell, 2018, 29, 683-684.	2.1	1
34	Inflammatory Caspases: Activation and Cleavage of Gasdermin-D In Vitro and During Pyroptosis. Methods in Molecular Biology, 2018, 1714, 131-148.	0.9	51
35	Caspase-8 induces cleavage of gasdermin D to elicit pyroptosis during Yersinia infection. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10888-E10897.	7.1	541
36	NÎµ-fatty acylation of multiple membrane-associated proteins by Shigella IcsB effector to modulate host function. Nature Microbiology, 2018, 3, 996-1009.	13.3	65

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37	Growing a gasdermin pore in membranes of pyroptotic cells. EMBO Journal, 2018, 37, .	7.8	15
38	Sequence determinants of specific pattern-recognition of bacterial ligands by the NAIPâ€“NLRC4 inflammasome. Cell Discovery, 2018, 4, 22.	6.7	18
39	Alpha-kinase 1 is a cytosolic innate immune receptor for bacterial ADP-heptose. Nature, 2018, 561, 122-126.	27.8	165
40	Chemotherapy drugs induce pyroptosis through caspase-3 cleavage of a gasdermin. Nature, 2017, 547, 99-103.	27.8	1,793
41	Pyroptosis: Gasdermin-Mediated Programmed Necrotic Cell Death. Trends in Biochemical Sciences, 2017, 42, 245-254.	7.5	1,911
42	Modulation of membrane phosphoinositide dynamics by the phosphatidylinositide 4-kinase activity of the Legionella LepB effector. Nature Microbiology, 2017, 2, 16236.	13.3	60
43	N ^{Îµ} -Fatty acylation of Rho GTPases by a MARTX toxin effector. Science, 2017, 358, 528-531.	12.6	42
44	Ubiquitination and degradation of GBPs by a Shigella effector to suppress host defence. Nature, 2017, 551, 378-383.	27.8	158
45	Epithelial cells detect functional type III secretion system of enteropathogenic Escherichia coli through a novel NF-ÎºB signaling pathway. PLoS Pathogens, 2017, 13, e1006472.	4.7	22
46	An endogenous caspase-11 ligand elicits interleukin-1 release from living dendritic cells. Science, 2016, 352, 1232-1236.	12.6	419
47	A Burkholderia Type VI Effector Deamidates Rho GTPases to Activate the Pyrin Inflammasome and Trigger Inflammation. Cell Host and Microbe, 2016, 19, 664-674.	11.0	140
48	Genetic functions of the NAIP family of inflammasome receptors for bacterial ligands in mice. Journal of Experimental Medicine, 2016, 213, 647-656.	8.5	81
49	Site-specific phosphorylation and microtubule dynamics control Pyrin inflammasome activation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4857-66.	7.1	198
50	Pore-forming activity and structural autoinhibition of the gasdermin family. Nature, 2016, 535, 111-116.	27.8	1,812
51	Diverse mechanisms for inflammasome sensing of cytosolic bacteria and bacterial virulence. Current Opinion in Microbiology, 2016, 29, 37-42.	5.1	54
52	A polar-localized iron-binding protein determines the polar targeting ofBurkholderiaâ€¦BimA autotransporter and actin tail formation. Cellular Microbiology, 2015, 17, 408-424.	2.1	20
53	Non-canonical activation of inflammatory caspases by cytosolic LPS in innate immunity. Current Opinion in Immunology, 2015, 32, 78-83.	5.5	210
54	Feng Shao: Getting a sense for the defense. Journal of Cell Biology, 2015, 210, 174-175.	5.2	0

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55	The <scp>NAIP</scp>â€“<scp>NLRC</scp>4 inflammasome in innate immune detection of bacterial flagellin and type III secretion apparatus. Immunological Reviews, 2015, 265, 85-102.	6.0	173
56	Sweet Talk: Protein Glycosylation in Bacterial Interaction With the Host. Trends in Microbiology, 2015, 23, 630-641.	7.7	93
57	Structural and biochemical basis for induced self-propagation of NLRC4. Science, 2015, 350, 399-404.	12.6	282
58	Cleavage of GSDMD by inflammatory caspases determines pyroptotic cell death. Nature, 2015, 526, 660-665.	27.8	4,072
59	Structure and Specificity of the Bacterial Cysteine Methyltransferase Effector NleE Suggests a Novel Substrate in Human DNA Repair Pathway. PLoS Pathogens, 2014, 10, e1004522.	4.7	24
60	Structural basis of the ultrasensitive calcium indicator GCaMP6. Science China Life Sciences, 2014, 57, 269-274.	4.9	42
61	Synthesis of and Specific Antibody Generation for Glycopeptides with Arginine Nâ€GlcNAcylation. Angewandte Chemie - International Edition, 2014, 53, 14517-14521.	13.8	49
62	The immunological function of familial Mediterranean fever disease protein Pyrin. Science China Life Sciences, 2014, 57, 1156-1161.	4.9	29
63	Inflammatory caspases are innate immune receptors for intracellular LPS. Nature, 2014, 514, 187-192.	27.8	1,665
64	An Iron-Containing Dodecameric Heptosyltransferase Family Modifies Bacterial Autotransporters in Pathogenesis. Cell Host and Microbe, 2014, 16, 351-363.	11.0	47
65	Innate immune sensing of bacterial modifications of Rho GTPases by the Pyrin inflammasome. Nature, 2014, 513, 237-241.	27.8	664
66	A structural mechanism for bacterial autotransporter glycosylation by a dodecameric heptosyltransferase family. ELife, 2014, 3, .	6.0	30
67	Pathogen blocks host death receptor signalling by arginine GlcNAcylation of death domains. Nature, 2013, 501, 242-246.	27.8	247
68	Human NAIP and mouse NAIP1 recognize bacterial type III secretion needle protein for inflammasome activation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14408-14413.	7.1	333
69	SETâ€domain bacterial effectors target heterochromatin protein 1 to activate host rDNA transcription. EMBO Reports, 2013, 14, 733-740.	4.5	75
70	Structural analyses of Legionella LepB reveal a new GAP fold that catalytically mimics eukaryotic RasGAP. Cell Research, 2013, 23, 775-787.	12.0	26
71	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
72	YopT Protease and its Homologs. , 2013, , 2170-2174.		0

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73	VipD of Legionella pneumophila Targets Activated Rab5 and Rab22 to Interfere with Endosomal Trafficking in Macrophages. PLoS Pathogens, 2012, 8, e1003082.	4.7	89
74	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
75	Cysteine methylation disrupts ubiquitin-chain sensing in NF-ÎºB activation. Nature, 2012, 481, 204-208.	27.8	167
76	Structurally Distinct Bacterial TBC-like GAPs Link Arf GTPase to Rab1 Inactivation to Counteract Host Defenses. Cell, 2012, 150, 1029-1041.	28.9	198
77	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
78	Sensing bacterial infections by NAIP receptors in NLRC4 inflammasome activation. Protein and Cell, 2012, 3, 98-105.	11.0	30
79	Manipulation of host vesicular trafficking and innate immune defence by Legionella Dot/Icm effectors. Cellular Microbiology, 2011, 13, 1870-1880.	2.1	60
80	Biochemistry and cell signaling taught by bacterial effectors. Trends in Biochemical Sciences, 2011, 36, 532-540.	7.5	41
81	The NLRC4 inflammasome receptors for bacterial flagellin and type III secretion apparatus. Nature, 2011, 477, 596-600.	27.8	1,050
82	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
83	Glutamine Deamidation and Dysfunction of Ubiquitin/NEDD8 Induced by a Bacterial Effector Family. Science, 2010, 329, 1215-1218.	12.6	176
84	Chemical probing reveals insights into the signaling mechanism of inflammasome activation. Cell Research, 2010, 20, 1289-1305.	12.0	91
85	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
86	A Legionella type IV effector activates the NF-ÎºB pathway by phosphorylating the IÎºB family of inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13725-13730.	7.1	142
87	Cullin Mediates Degradation of RhoA through Evolutionarily Conserved BTB Adaptors to Control Actin Cytoskeleton Structure and Cell Movement. Molecular Cell, 2009, 35, 841-855.	9.7	245
88	Structure of a Shigella effector reveals a new class of ubiquitin ligases. Nature Structural and Molecular Biology, 2008, 15, 1302-1308.	8.2	154
89	Biochemical functions of Yersinia type III effectors. Current Opinion in Microbiology, 2008, 11, 21-29.	5.1	50
90	The Phosphothreonine Lyase Activity of a Bacterial Type III Effector Family. Science, 2007, 315, 1000-1003.	12.6	378

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91	Structural Insights into the Enzymatic Mechanism of the Pathogenic MAPK Phosphothreonine Lyase. Molecular Cell, 2007, 28, 899-913.	9.7	114
92	The crystal structure of Pseudomonas avirulence protein AvrPphB: A papain-like fold with a distinct substrate-binding site. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 302-307.	7.1	113
93	Cleavage of Arabidopsis PBS1 by a Bacterial Type III Effector. Science, 2003, 301, 1230-1233.	12.6	504
94	Biochemical characterization of the Yersinia YopT protease: Cleavage site and recognition elements in Rho GTPases. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 904-909.	7.1	155
95	A Yersinia Effector and a Pseudomonas Avirulence Protein Define a Family of Cysteine Proteases Functioning in Bacterial Pathogenesis. Cell, 2002, 109, 575-588.	28.9	417