Edward A Miao

List of Publications by Year
in descending order

69 papers	17,169 citations	66234 42 h-index	91712 69 g-index
73 all docs	73 docs citations	73 times ranked	19540 citing authors

#	Article	IF	Citations
1	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541.	5.0	4,036
2	Caspase-1-induced pyroptosis is an innate immune effector mechanism against intracellular bacteria. Nature Immunology, 2010, 11, 1136-1142.	7.0	1,074
3	Cytoplasmic flagellin activates caspase-1 and secretion of interleukin 1Î² via Ipaf. Nature Immunology, 2006, 7, 569-575.	7.0	1,022
4	Cytoplasmic LPS Activates Caspase-11: Implications in TLR4-Independent Endotoxic Shock. Science, 2013, 341, 1250-1253.	6.0	1,021
5	Caspaseâ€1â€induced pyroptotic cell death. Immunological Reviews, 2011, 243, 206-214.	2.8	908
6	Gasdermins: Effectors of Pyroptosis. Trends in Cell Biology, 2017, 27, 673-684.	3.6	826
7	Pyroptotic cell death defends against intracellular pathogens. Immunological Reviews, 2015, 265, 130-142.	2.8	771
8	Programmed cell death as a defence against infection. Nature Reviews Immunology, 2017, 17, 151-164.	10.6	752
9	Innate immune detection of the type III secretion apparatus through the NLRC4 inflammasome. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3076-3080.	3.3	680
10	Caspase-11 Protects Against Bacteria That Escape the Vacuole. Science, 2013, 339, 975-978.	6.0	456
11	Mechanisms of NOD-like Receptor-Associated Inflammasome Activation. Immunity, 2013, 39, 432-441.	6.6	359
12	Pyroptosis triggers pore-induced intracellular traps (PITs) that capture bacteria and lead to their clearance by efferocytosis. Journal of Experimental Medicine, 2016, 213, 2113-2128.	4.2	302
13	Caspase-11â€“mediated endothelial pyroptosis underlies endotoxemia-induced lung injury. Journal of Clinical Investigation, 2017, 127, 4124-4135.	3.9	298
14	Guanylate binding proteins promote caspase-11â€“dependent pyroptosis in response to cytoplasmic LPS. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6046-6051.	3.3	289
15	Pseudomonas aeruginosa activates caspase 1 through Ipaf. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2562-2567.	3.3	269
16	Salmonella typhimurium leucine-rich repeat proteins are targeted to the SPI1 and SPI2 type III secretion systems. Molecular Microbiology, 1999, 34, 850-864.	1.2	253
17	TLR5 and Ipaf: dual sensors of bacterial flagellin in the innate immune system. Seminars in Immunopathology, 2007, 29, 275-288.	2.8	244
18	Staphylococcus aureus Evades Lysozyme-Based Peptidoglycan Digestion that Links Phagocytosis, Inflammasome Activation, and IL-1Î² Secretion. Cell Host and Microbe, 2010, 7, 38-49.	5.1	239

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19	Inflammasome-mediated pyroptotic and apoptotic cell death, and defense against infection. Current Opinion in Microbiology, 2013, 16, 319-326.	2.3	235
20	Virus Binding to a Plasma Membrane Receptor Triggers Interleukin-1Î±-Mediated Proinflammatory Macrophage Response In Vivo. Immunity, 2009, 31, 110-121.	6.6	176
21	Identification of a Putative Salmonella enterica Serotype Typhimurium Host Range Factor with Homology to IpaH and YopM by Signature-Tagged Mutagenesis. Infection and Immunity, 1999, 67, 6385-6393.	1.0	176
22	Interferon-Î² Therapy Against EAE Is Effective Only When Development of the Disease Depends on the NLRP3 Inflammasome. Science Signaling, 2012, 5, ra38.	1.6	168
23	Multiple Nod-Like Receptors Activate Caspase 1 during Listeria monocytogenes Infection. Journal of Immunology, 2008, 180, 7558-7564.	0.4	162
24	Cutting Edge: Mouse NAIP1 Detects the Type III Secretion System Needle Protein. Journal of Immunology, 2013, 191, 3986-3989.	0.4	162
25	Reactive oxygen species induce antibiotic tolerance during systemic Staphylococcus aureus infection. Nature Microbiology, 2020, 5, 282-290.	5.9	148
26	Salmonella effectors translocated across the vacuolar membrane interact with the actin cytoskeleton. Molecular Microbiology, 2003, 48, 401-415.	1.2	137
27	ILâ€1Î², ILâ€18, and eicosanoids promote neutrophil recruitment to poreâ€induced intracellular traps following pyroptosis. European Journal of Immunology, 2016, 46, 2761-2766.	1.6	135
28	Detection of Pyroptosis by Measuring Released Lactate Dehydrogenase Activity. Methods in Molecular Biology, 2013, 1040, 85-90.	0.4	133
29	Cutting Edge: Cytosolic Bacterial DNA Activates the Inflammasome via Aim2. Journal of Immunology, 2010, 185, 818-821.	0.4	130
30	Inflammasomes Coordinate Pyroptosis and Natural Killer Cell Cytotoxicity to Clear Infection by a Ubiquitous Environmental Bacterium. Immunity, 2015, 43, 987-997.	6.6	127
31	The NLRP3 Inflammasome Detects Encephalomyocarditis Virus and Vesicular Stomatitis Virus Infection. Journal of Virology, 2011, 85, 4167-4172.	1.5	126
32	Guanylate Binding Proteins Enable Rapid Activation of Canonical and Noncanonical Inflammasomes in Chlamydia-Infected Macrophages. Infection and Immunity, 2015, 83, 4740-4749.	1.0	126
33	Differential Requirements for NAIP5 in Activation of the NLRC4 Inflammasome. Infection and Immunity, 2011, 79, 1606-1614.	1.0	115
34	Canonical Inflammasomes Drive IFN-Î³ to Prime Caspase-11 in Defense against a Cytosol-Invasive Bacterium. Cell Host and Microbe, 2015, 18, 320-332.	5.1	101
35	Loss of Bladder Epithelium Induced by Cytolytic Mast Cell Granules. Immunity, 2016, 45, 1258-1269.	6.6	70
36	InvB Is a Type III Secretion Chaperone Specific for SspA. Journal of Bacteriology, 2000, 182, 6638-6644.	1.0	68

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37	Activation of the NLRP3 inflammasome by intracellular poly I:C. FEBS Letters, 2010, 584, 4627-4632.	1.3	63
38	Dietary Salt Exacerbates Experimental Colitis. Journal of Immunology, 2017, 199, 1051-1059.	0.4	61
39	Innate Immune Detection of Bacterial Virulence Factors Via the NLRC4 Inflammasome. Journal of Clinical Immunology, 2010, 30, 502-506.	2.0	59
40	Neutrophil Caspase-11 Is Essential to Defend against a Cytosol-Invasive Bacterium. Cell Reports, 2020, 32, 107967.	2.9	55
41	Transcription of the SsrAB Regulon Is Repressed by Alkaline pH and Is Independent of PhoPQ and Magnesium Concentration. Journal of Bacteriology, 2002, 184, 1493-1497.	1.0	53
42	Caspase-7 activates ASM to repair gasdermin and perforin pores. Nature, 2022, 606, 960-967.	13.7	53
43	Salmonella Typhimurium Impedes Innate Immunity with a Mast-Cell-Suppressing Protein Tyrosine Phosphatase, SptP. Immunity, 2013, 39, 1108-1120.	6.6	52
44	Innate Sensors Trigger Regulated Cell Death to Combat Intracellular Infection. Annual Review of Immunology, 2022, 40, 469-498.	9.5	51
45	Reassessing the Evolutionary Importance of Inflammasomes. Journal of Immunology, 2016, 196, 956-962.	0.4	47
46	Salmonella and Caspase-1: A complex Interplay of Detection and Evasion. Frontiers in Microbiology, 2011, 2, 85.	1.5	44
47	Generation of a Listeria vaccine strain by enhanced caspaseâ€1 activation. European Journal of Immunology, 2011, 41, 1934-1940.	1.6	34
48	The RIP1-RIP3 complex initiates mitochondrial fission to fuel NLRP3. Nature Immunology, 2014, 15, 1100-1102.	7.0	34
49	The Prostaglandin E2-EP3 Receptor Axis Regulates Anaplasma phagocytophilum-Mediated NLRC4 Inflammasome Activation. PLoS Pathogens, 2016, 12, e1005803.	2.1	31
50	Yersinia pestis Activates Both IL-1Î² and IL-1 Receptor Antagonist to Modulate Lung Inflammation during Pneumonic Plague. PLoS Pathogens, 2015, 11, e1004688.	2.1	30
51	Programmed Cell Death in the Evolutionary Race against Bacterial Virulence Factors. Cold Spring Harbor Perspectives in Biology, 2020, 12, a036459.	2.3	30
52	NLRC4 and TLR5 Each Contribute to Host Defense in Respiratory Melioidosis. PLoS Neglected Tropical Diseases, 2014, 8, e3178.	1.3	27
53	Lipopolysaccharide Potentiates Insulin-Driven Hypoglycemic Shock. Journal of Immunology, 2017, 199, 3634-3643.	0.4	24
54	The AIM2 inflammasome is activated in astrocytes during the late phase of EAE. JCI Insight, 2022, 7, .	2.3	21

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55	Detection of cytosolic bacteria by inflammatory caspases. Current Opinion in Microbiology, 2014, 17, 61-66.	2.3	18
56	Just say NO to NLRP3. Nature Immunology, 2013, 14, 12-14.	7.0	13
57	WildCARDs: Inflammatory caspases directly detect LPS. Cell Research, 2015, 25, 149-150.	5.7	12
58	<scp>NLRP</scp> 1 â€“ One <scp>NLR</scp> to guard them all. EMBO Journal, 2019, 38, e102494.	3.5	11
59	Environmental Factors Modify the Severity of Acute DSS Colitis in Caspase-11-Deficient Mice. Inflammatory Bowel Diseases, 2018, 24, 2394-2403.	0.9	9
60	A licence to kill during inflammation. Nature, 2019, 570, 316-317.	13.7	7
61	Evaluating cytokine production by flow cytometry using brefeldin A in mice. STAR Protocols, 2021, 2, 100244.	0.5	7
62	NAIP inflammasomes give the NOD to bacterial ligands. Trends in Immunology, 2014, 35, 503-504.	2.9	4
63	Autophagy May Allow a Cell to Forbear Pyroptosis When Confronted With Cytosol-Invasive Bacteria. Frontiers in Immunology, 2022, 13, 871190.	2.2	4
64	miniMAVS, You Complete Me!. Cell, 2014, 156, 629-630.	13.5	3
65	Nonâ€“Cell-Autonomous Activity of the Hemidesmosomal Protein BP180/Collagen XVII in Granulopoiesis in Humanized NC16A Mice. Journal of Immunology, 2020, 205, 2786-2794.	0.4	3
66	Down with doublespeak: NAIP/NLRC4 inflammasomes get specific. Journal of Experimental Medicine, 2016, 213, 646-646.	4.2	2
67	YopM Puts Caspase-1 on Ice. Cell Host and Microbe, 2012, 12, 737-738.	5.1	1
68	Salmonella Typhimurium Impedes Innate Immunity With a Mast Cell-Suppressing Tyrosine Phosphatase Sptp. Journal of Allergy and Clinical Immunology, 2014, 133, AB247.	1.5	0
69	Shigella handcuffs caspases. Nature Microbiology, 2022, 7, 20-21.	5.9	0