Liwu Li

List of Publications by Year
in descending order

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126 papers	6,243 citations	53751 45 h-index	76872 74 g-index
128 all docs	128 docs citations	128 times ranked	9639 citing authors

#	Article	IF	Citations
1	The Ubiquitin Ligase Stub1 Negatively Modulates Regulatory T Cell Suppressive Activity by Promoting Degradation of the Transcription Factor Foxp3. Immunity, 2013, 39, 272-285.	6.6	260
2	Characterization of Interleukin-1 Receptor-associated Kinase in Normal and Endotoxin-tolerant Cells. Journal of Biological Chemistry, 2000, 275, 23340-23345.	1.6	220
3	Sequence Variants of Toll-Like Receptor 4 Are Associated with Prostate Cancer Risk. Cancer Research, 2004, 64, 2918-2922.	0.4	214
4	Innate Immune Programing by Endotoxin and Its Pathological Consequences. Frontiers in Immunology, 2014, 5, 680.	2.2	189
5	Endotoxin Tolerance Disrupts Chromatin Remodeling and NF-Î²B Transactivation at the IL-1Î² Promoter. Journal of Immunology, 2005, 175, 461-468.	0.4	174
6	Sequence Variants in Toll-Like Receptor Gene Cluster (TLR6-TLR1-TLR10) and Prostate Cancer Risk. Journal of the National Cancer Institute, 2005, 97, 525-532.	3.0	169
7	Myeloid cell-derived inducible nitric oxide synthase suppresses M1 macrophage polarization. Nature Communications, 2015, 6, 6676.	5.8	162
8	Fusobacterium nucleatum host-cell binding and invasion induces IL-8 and CXCL1 secretion that drives colorectal cancer cell migration. Science Signaling, 2020, 13, .	1.6	148
9	Lipopolysaccharide- and Lipoteichoic Acid-Induced Tolerance and Cross-Tolerance: Distinct Alterations in IL-1 Receptor-Associated Kinase. Journal of Immunology, 2002, 168, 6136-6141.	0.4	143
10	A Family of Putative Tumor Suppressors Is Structurally and Functionally Conserved in Humans and Yeast. Journal of Biological Chemistry, 1997, 272, 29403-29406.	1.6	141
11	The persistence of low-grade inflammatory monocytes contributes to aggravated atherosclerosis. Nature Communications, 2016, 7, 13436.	5.8	135
12	Form, function, and regulation of protein tyrosine phosphatases and their involvement in human diseases. Seminars in Immunology, 2000, 12, 75-84.	2.7	132
13	Toll-like receptor 4 modulates skeletal muscle substrate metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E988-E998.	1.8	130
14	Molecular Mechanisms Responsible for the Selective and Low-Grade Induction of Proinflammatory Mediators in Murine Macrophages by Lipopolysaccharide. Journal of Immunology, 2012, 189, 1014-1023.	0.4	118
15	Endotoxin tolerance dysregulates MyD88- and Toll/IL-1R domain-containing adapter inducing IFN-Î²-dependent pathways and increases expression of negative regulators of TLR signaling. Journal of Leukocyte Biology, 2009, 86, 863-875.	1.5	115
16	Molecular Mechanism Responsible for the Priming of Macrophage Activation. Journal of Biological Chemistry, 2013, 288, 3897-3906.	1.6	114
17	IRAK1 Serves as a Novel Regulator Essential for Lipopolysaccharide-induced Interleukin-10 Gene Expression. Journal of Biological Chemistry, 2004, 279, 51697-51703.	1.6	104
18	Activation of AMPK inhibits inflammation in MRL/lpr mouse mesangial cells. Clinical and Experimental Immunology, 2009, 156, 542-551.	1.1	99

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19	Molecular Mechanisms and Pathological Consequences of Endotoxin Tolerance and Priming. Archivum Immunologiae Et Therapiae Experimentalis, 2012, 60, 13-18.	1.0	98
20	Macrophages and fibroblasts during inflammation, tissue damage and organ injury. Frontiers in Bioscience - Landmark, 2009, Volume, 3988.	3.0	97
21	EGR1 recruits TET1 to shape the brain methylome during development and upon neuronal activity. Nature Communications, 2019, 10, 3892.	5.8	95
22	IRAK-1 Contributes to Lipopolysaccharide-induced Reactive Oxygen Species Generation in Macrophages by Inducing NOX-1 Transcription and Rac1 Activation and Suppressing the Expression of Antioxidative Enzymes. Journal of Biological Chemistry, 2009, 284, 35403-35411.	1.6	93
23	Characterization of Tollip protein upon Lipopolysaccharide challenge. Molecular Immunology, 2004, 41, 85-92.	1.0	90
24	The Human Cdc14 Phosphatases Interact with and Dephosphorylate the Tumor Suppressor Protein p53. Journal of Biological Chemistry, 2000, 275, 2410-2414.	1.6	89
25	Assembly of Inflammation-Related Genes for Pathway-Focused Genetic Analysis. PLoS ONE, 2007, 2, e1035.	1.1	89
26	Activation of Interleukin-1 Receptor-Associated Kinase by Gram-Negative Flagellin. Infection and Immunity, 2001, 69, 4424-4429.	1.0	85
27	Epigallocatechin-3-gallate (EGCG) attenuates inflammation in MRL/lpr mouse mesangial cells. Cellular and Molecular Immunology, 2010, 7, 123-132.	4.8	84
28	Regulation of IL-1 Receptor-Associated Kinases by Lipopolysaccharide. Journal of Immunology, 2002, 168, 3910-3914.	0.4	78
29	A Mathematical Model for the Reciprocal Differentiation of T Helper 17 Cells and Induced Regulatory T Cells. PLoS Computational Biology, 2011, 7, e1002122.	1.5	76
30	Low-Dose Endotoxin Induces Inflammation by Selectively Removing Nuclear Receptors and Activating CCAAT/Enhancer-Binding Protein Î´. Journal of Immunology, 2011, 186, 4467-4473.	0.4	69
31	An Innate Immunity Signaling Process Suppresses Macrophage ABCA1 Expression through IRAK-1-Mediated Downregulation of Retinoic Acid Receptor Î± and NFATc2. Molecular and Cellular Biology, 2009, 29, 5989-5997.	1.1	68
32	Differential Regulation of Foxp3 and IL-17 Expression in CD4 T Helper Cells by IRAK-1. Journal of Immunology, 2009, 182, 5763-5769.	0.4	68
33	Causes and consequences of low grade endotoxemia and inflammatory diseases. Frontiers in Bioscience - Scholar, 2013, S5, 754-765.	0.8	60
34	Super-low Dose Endotoxin Pre-conditioning Exacerbates Sepsis Mortality. EBioMedicine, 2015, 2, 324-333.	2.7	59
35	Interactions of Sequence Variants in Interleukin-1 Receptorâ€“Associated Kinase4 and the Toll-Like Receptor 6-1-10 Gene Cluster Increase Prostate Cancer Risk. Cancer Epidemiology Biomarkers and Prevention, 2006, 15, 480-485.	1.1	57
36	Molecular mechanism underlying the suppression of lipid oxidation during endotoxemia. Molecular Immunology, 2009, 47, 420-425.	1.0	56

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37	Novel reprogramming of neutrophils modulates inflammation resolution during atherosclerosis. Science Advances, 2019, 5, eaav2309.	4.7	56
38	Dynamic Modulation of Innate Immune Response by Varying Dosages of Lipopolysaccharide (LPS) in Human Monocytic Cells. Journal of Biological Chemistry, 2014, 289, 21584-21590.	1.6	54
39	Mathematical Modeling for the Pathogenesis of Alzheimer's Disease. PLoS ONE, 2010, 5, e15176.	1.1	54
40	The involvement of the interleukin-1 receptor-associated kinases (IRAKs) in cellular signaling networks controlling inflammation. Cytokine, 2008, 42, 1-7.	1.4	53
41	Reprogramming macrophage orientation by microRNA 146b targeting transcription factor IRF5. EBioMedicine, 2016, 14, 83-96.	2.7	53
42	Network Topologies and Dynamics Leading to Endotoxin Tolerance and Priming in Innate Immune Cells. PLoS Computational Biology, 2012, 8, e1002526.	1.5	51
43	Molecular Mechanisms That Underlie the Dynamic Adaptation of Innate Monocyte Memory to Varying Stimulant Strength of TLR Ligands. Frontiers in Immunology, 2016, 7, 497.	2.2	51
44	Lowâ€grade inflammatory polarization of monocytes impairs wound healing. Journal of Pathology, 2016, 238, 571-583.	2.1	50
45	A simple theoretical framework for understanding heterogeneous differentiation of CD4+ T cells. BMC Systems Biology, 2012, 6, 66.	3.0	49
46	Regulations and Roles of the Interleukin-1 Receptor Associated Kinases (IRAKs) in Innate and Adaptive Immunity. Immunologic Research, 2006, 35, 295-302.	1.3	48
47	Differential regulation and role of interleukin-1 receptor associated kinase-M in innate immunity signaling. Cellular Signalling, 2007, 19, 1596-1601.	1.7	46
48	Genomic DNA Extraction from Cells by Electroporation on an Integrated Microfluidic Platform. Analytical Chemistry, 2012, 84, 9632-9639.	3.2	45
49	Differential regulation of interleukin-1 receptor associated kinase 1 (IRAK1) splice variants. Molecular Immunology, 2007, 44, 900-905.	1.0	44
50	Alteration of Lysosome Fusion and Low-grade Inflammation Mediated by Super-low-dose Endotoxin. Journal of Biological Chemistry, 2015, 290, 6670-6678.	1.6	44
51	Subclinical-Dose Endotoxin Sustains Low-Grade Inflammation and Exacerbates Steatohepatitis in High-Fat Dietâ€“Fed Mice. Journal of Immunology, 2016, 196, 2300-2308.	0.4	44
52	Toll-Interacting Protein in Resolving and Non-Resolving Inflammation. Frontiers in Immunology, 2017, 8, 511.	2.2	42
53	Regulation of Innate Immunity Signaling and its Connection with Human Diseases. Inflammation and Allergy: Drug Targets, 2004, 3, 81-86.	3.1	41
54	MAP kinase phosphatase-1, a critical negative regulator of the innate immune response. International Journal of Clinical and Experimental Medicine, 2009, 2, 48-67.	1.3	41

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55	Loss of the innate immunity negative regulator IRAK-M leads to enhanced host immune defense against tumor growth. Molecular Immunology, 2007, 44, 3453-3461.	1.0	40
56	Molecular Mechanisms Responsible for the Reduced Expression of Cholesterol Transporters From Macrophages by Low-Dose Endotoxin. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 24-33.	1.1	40
57	The association between innate immunity gene (IRAK1) and C-reactive protein in the Diabetes Heart Study. Experimental and Molecular Pathology, 2007, 82, 280-283.	0.9	37
58	Tollip Deficiency Alters Atherosclerosis and Steatosis by Disrupting Lipophagy. Journal of the American Heart Association, 2017, 6, .	1.6	36
59	Molecular mechanism underlying the inflammatory complication of leptin in macrophages. Molecular Immunology, 2010, 47, 2515-2518.	1.0	35
60	Histone modification analysis by chromatin immunoprecipitation from a low number of cells on a microfluidic platform. Lab on A Chip, 2011, 11, 2842.	3.1	35
61	The C2 domain of Tollip, a Toll-like receptor signalling regulator, exhibits broad preference for phosphoinositides. Biochemical Journal, 2011, 435, 597-608.	1.7	35
62	Interleukin-1 receptor-associated kinase M (IRAK-M) promotes human rhinovirus infection in lung epithelial cells via the autophagic pathway. Virology, 2013, 446, 199-206.	1.1	35
63	Molecular and Cellular Mechanisms Responsible for Cellular Stress and Low-grade Inflammation Induced by a Super-low Dose of Endotoxin. Journal of Biological Chemistry, 2014, 289, 16262-16269.	1.6	33
64	The Phosphatidylinositol 3-Kinase Pathway Selectively Controls sIL-1RA Not Interleukin-1Î² Production in the Septic Leukocytes. Journal of Biological Chemistry, 2001, 276, 20234-20239.	1.6	32
65	Tissue-resident dendritic cells and diseases involving dendritic cell malfunction. International Immunopharmacology, 2016, 34, 1-15.	1.7	31
66	Suppression of Neutrophil Antimicrobial Functions by Total Particulate Matter From Cigarette Smoke. Frontiers in Immunology, 2018, 9, 2274.	2.2	31
67	Development of Exhausted Memory Monocytes and Underlying Mechanisms. Frontiers in Immunology, 2021, 12, 778830.	2.2	31
68	The p53-targeting human phosphatase hCdc14A interacts with the Cdk1/cyclin B complex and is differentially expressed in human cancers. Molecular Cancer, 2006, 5, 25.	7.9	28
69	Failure of TLR4-Driven NF-Î°B Activation to Stimulate Virus Replication in Models of HIV Type 1 Activation. AIDS Research and Human Retroviruses, 2007, 23, 1387-1395.	0.5	28
70	The Interleukin-1 Receptor-Associated Kinase M Selectively Inhibits the Alternative, Instead of the Classical NFÎ°B Pathway. Journal of Innate Immunity, 2009, 1, 164-174.	1.8	28
71	Deletion of interleukin 1 receptor-associated kinase 1 (Irak1) improves glucose tolerance primarily by increasing insulin sensitivity in skeletal muscle. Journal of Biological Chemistry, 2017, 292, 12339-12350.	1.6	28
72	Super-Low Dose Lipopolysaccharide Dysregulates Neutrophil Migratory Decision-Making. Frontiers in Immunology, 2019, 10, 359.	2.2	27

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73	Reduced oxidative tissue damage during endotoxemia in IRAK-1 deficient mice. Molecular Immunology, 2012, 50, 244-252.	1.0	25
74	Deficiency in Toll-interacting protein (Tollip) skews inflamed yet incompetent innate leukocytes in vivo during DSS-induced septic colitis. Scientific Reports, 2016, 6, 34672.	1.6	25
75	Toll-interacting protein deficiency promotes neurodegeneration via impeding autophagy completion in high-fat diet-fed ApoEâ^'/â^' mouse model. Brain, Behavior, and Immunity, 2017, 59, 200-210.	2.0	24
76	Enhanced tumor immune surveillance through neutrophil reprogramming due to Tollip deficiency. JCI Insight, 2019, 4, .	2.3	23
77	Intervention of Toll-like Receptor-Mediated Human Innate Immunity and Inflammation by Synthetic Compounds and Naturally Occurring Products. Current Medicinal Chemistry, 2006, 13, 1389-1395.	1.2	22
78	Autophagy regulates accumulation and functional activity of granulocytic myeloid-derived suppressor cells via STAT3 signaling in endotoxin shock. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2796-2807.	1.8	22
79	ENDOTOXIN-ADAPTED SEPTIC SHOCK LEUKOCYTES SELECTIVELY ALTER PRODUCTION OF SIL-1RA AND IL-1Î². Shock, 2001, 16, 430-437.	1.0	21
80	Change in Mononuclear Leukocyte Responsiveness in Midpregnancy and Subsequent Preterm Birth. Obstetrics and Gynecology, 2013, 121, 805-811.	1.2	21
81	Neutrophils Deficient in Innate Suppressor IRAK-M Enhances Anti-tumor Immune Responses. Molecular Therapy, 2020, 28, 89-99.	3.7	21
82	Trehalose-Mediated Autophagy Impairs the Anti-Viral Function of Human Primary Airway Epithelial Cells. PLoS ONE, 2015, 10, e0124524.	1.1	20
83	Enhanced Mucosal Defense and Reduced Tumor Burden in Mice with the Compromised Negative Regulator IRAK-M. EBioMedicine, 2017, 15, 36-47.	2.7	20
84	Epigenomic and transcriptomic analyses reveal differences between low-grade inflammation and severe exhaustion in LPS-challenged murine monocytes. Communications Biology, 2022, 5, 102.	2.0	20
85	The interleukin-1 receptor associated kinase 1 contributes to the regulation of NFAT. Molecular Immunology, 2008, 45, 3902-3908.	1.0	18
86	TICAM2-related pathway mediates neutrophil exhaustion. Scientific Reports, 2020, 10, 14397.	1.6	18
87	Resolving monocytes generated through TRAM deletion attenuate atherosclerosis. JCI Insight, 2021, 6, .	2.3	18
88	Association of an IL-1A 3â€²UTR polymorphism with end-stage renal disease and IL-1Î± expression. Kidney International, 2003, 63, 1211-1219.	2.6	17
89	Toll-Interacting Protein, Tollip, Inhibits IL-13-Mediated Pulmonary Eosinophilic Inflammation in Mice. Journal of Innate Immunity, 2018, 10, 106-118.	1.8	17
90	In vitro and in vivo reconstitution and stability of vertebrate chromosome ends. Nucleic Acids Research, 1998, 26, 2908-2908.	6.5	16

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91	Molecular Mechanism Underlying Persistent Induction of LCN2 by Lipopolysaccharide in Kidney Fibroblasts. PLoS ONE, 2012, 7, e34633.	1.1	16
92	Distinct post-receptor alterations generate gene- and signal-selective adaptation and cross-adaptation of TLR4 and TLR2 in human leukocytes. Journal of Endotoxin Research, 2003, 9, 39-44.	2.5	15
93	Divergent age-dependent peripheral immune transcriptomic profile following traumatic brain injury. Scientific Reports, 2019, 9, 8564.	1.6	15
94	Differential induction of apoptosis by LPS and taxol in monocytic cells. Molecular Immunology, 2005, 42, 1049-1055.	1.0	14
95	Tollip Inhibits ST2 Signaling in Airway Epithelial Cells Exposed to Type 2 Cytokines and Rhinovirus. Journal of Innate Immunity, 2020, 12, 103-115.	1.8	14
96	Interleukin-1 Receptor-Associated Kinase-1 (IRAK-1) functionally associates with PKCÉ› and VASP in the regulation of macrophage migration. Molecular Immunology, 2010, 47, 1278-1282.	1.0	12
97	Single Cell RNA-Seq and Machine Learning Reveal Novel Subpopulations in Low-Grade Inflammatory Monocytes With Unique Regulatory Circuits. Frontiers in Immunology, 2021, 12, 627036.	2.2	12
98	Phenylbutyrate facilitates homeostasis of non-resolving inflammatory macrophages. Innate Immunity, 2020, 26, 62-72.	1.1	11
99	Dynamic modulation of innate immunity programming and memory. Science China Life Sciences, 2016, 59, 38-43.	2.3	10
100	Cellular and molecular mechanisms involved in the resolution of innate leukocyte inflammation. Journal of Leukocyte Biology, 2018, 104, 535-541.	1.5	10
101	Backbone 1H, 15N, and 13C Resonance Assignments and Secondary Structure of the Tollip CUE Domain. Molecules and Cells, 2010, 30, 581-586.	1.0	9
102	Detecting intracellular translocation of native proteins quantitatively at the single cell level. Chemical Science, 2014, 5, 2530-2535.	3.7	9
103	Programming and memory dynamics of innate leukocytes during tissue homeostasis and inflammation. Journal of Leukocyte Biology, 2017, 102, 719-726.	1.5	9
104	Polarization of Low-Grade Inflammatory Monocytes Through TRAM-Mediated Up-Regulation of Keap1 by Super-Low Dose Endotoxin. Frontiers in Immunology, 2020, 11, 1478.	2.2	9
105	TRAM-Related TLR4 Pathway Antagonized by IRAK-M Mediates the Expression of Adhesion/Coactivating Molecules on Low-Grade Inflammatory Monocytes. Journal of Immunology, 2021, 206, 2980-2988.	0.4	9
106	Modeling the Bistable Dynamics of the Innate Immune System. Bulletin of Mathematical Biology, 2019, 81, 256-276.	0.9	8
107	Toll-interacting protein differentially modulates HIF1Î± and STAT5-mediated genes in fibroblasts. Journal of Biological Chemistry, 2018, 293, 12239-12247.	1.6	7
108	Potent suppression of arginase 1 expression in murine macrophages by low dose endotoxin. American Journal of Clinical and Experimental Immunology, 2013, 2, 117-23.	0.2	7

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109	Enhanced Neutrophil Immune Homeostasis Due to Deletion of PHLPP. Frontiers in Immunology, 2019, 10, 2127.	2.2	6
110	Molecular mechanism underlying LPSâ€induced generation of reactive oxygen species in macrophages. FASEB Journal, 2010, 24, 422.3.	0.2	6
111	Deletion of PPAR-γ in immune cells enhances susceptibility to antiglomerular basement membrane disease. Journal of Inflammation Research, 2010, 3, 127.	1.6	5
112	Neutrophil programming dynamics and its disease relevance. Science China Life Sciences, 2017, 60, 1168-1177.	2.3	4
113	Signal-Strength and History-Dependent Innate Immune Memory Dynamics in Health and Disease. Handbook of Experimental Pharmacology, 2021, , 1.	0.9	4
114	A novel mouse model of conditional IRAK-M deficiency in myeloid cells: application in lung Pseudomonas aeruginosa infection. Innate Immunity, 2017, 23, 206-215.	1.1	3
115	Editorial: Innate Immunity Programming and Memory in Resolving and Non-Resolving Inflammation. Frontiers in Immunology, 2020, 11, 177.	2.2	3
116	Differential Regulation of Key Signaling Molecules in Innate Immunity and Human Diseases. , 2007, 598, 49-61.		3
117	Generation of resolving memory neutrophils through pharmacological training with 4-PBA or genetic deletion of TRAM. Cell Death and Disease, 2022, 13, 345.	2.7	3
118	Tollip Inhibits IL-33 Release and Inflammation in Influenza A Virus-Infected Mouse Airways. Journal of Innate Immunity, 2023, 15, 67-77.	1.8	3
119	3D Microtissue Models to Analyze the Effects of Ultralow Dose LPS on Vascular Sprouting Dynamics in the Tumor Microenvironment. ACS Biomaterials Science and Engineering, 2018, 4, 357-367.	2.6	1
120	Innate Neutrophil Memory Dynamics in Disease Pathogenesis. Handbook of Experimental Pharmacology, 2021, , 1.	0.9	1
121	The Mechanism of the Initiation and Progression of Glioma. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	0
122	A new innate sensor for an ancient molecular pattern. Science China Life Sciences, 2014, 57, 1236-1237.	2.3	0
123	A resolving role for neutrophil CD11d in facilitating neutrophil survival and macrophage efferocytosis during sepsis?. Journal of Leukocyte Biology, 2021, 109, 861-863.	1.5	0
124	Differential training of innate leukocytes getting compartmentalized. Journal of Leukocyte Biology, 2021, , .	1.5	0
125	Inflammatory Signaling Networks as Targets for Pharmacological Intervention of Chronic Diseases. Current Signal Transduction Therapy, 2009, 4, 103-110.	0.3	0
126	Innate Priming of Neutrophils Potentiates Systemic Multiorgan Injury. ImmunoHorizons, 2020, 4, 392-401.	0.8	0