Jun Liu

List of Publications by Year
in descending order

79 papers	5,088 citations	70961 41 h-index	95083 68 g-index
82 all docs	82 docs citations	82 times ranked	5121 citing authors

#	Article	IF	Citations
1	Evidence for Pore Formation in Host Cell Membranes by ESX-1-Secreted ESAT-6 and Its Role in <i>Mycobacterium marinum</i> Escape from the Vacuole. Infection and Immunity, 2008, 76, 5478-5487.	1.0	260
2	Mechanism of SMRT Corepressor Recruitment by the BCL6 BTB Domain. Molecular Cell, 2003, 12, 1551-1564.	4.5	251
3	Mycolic Acid Structure Determines the Fluidity of the Mycobacterial Cell Wall. Journal of Biological Chemistry, 1996, 271, 29545-29551.	1.6	236
4	Systematic Genetic Nomenclature for Type VII Secretion Systems. PLoS Pathogens, 2009, 5, e1000507.	2.1	233
5	Structural basis for recognition of AT-rich DNA by unrelated xenogeneic silencing proteins. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10690-10695.	3.3	204
6	Lsr2 is a nucleoid-associated protein that targets AT-rich sequences and virulence genes in<i>Mycobacterium tuberculosis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5154-5159.	3.3	192
7	Formation of a gated channel by a ligand-specific transport protein in the bacterial outer membrane. Science, 1992, 258, 471-475.	6.0	185
8	The ESAT-6/CFP-10 secretion system of Mycobacterium marinum modulates phagosome maturation. Cellular Microbiology, 2006, 8, 1417-1429.	1.1	149
9	Active efflux of fluoroquinolones in Mycobacterium smegmatis mediated by LfrA, a multidrug efflux pump. Journal of Bacteriology, 1996, 178, 3791-3795.	1.0	148
10	Roles of Lsr2 in Colony Morphology and Biofilm Formation of Mycobacterium smegmatis. Journal of Bacteriology, 2006, 188, 633-641.	1.0	139
11	Fluidity of the lipid domain of cell wall from Mycobacterium chelonae.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 11254-11258.	3.3	135
12	BCG Vaccines: Their mechanisms of attenuation and impact on safety and protective efficacy. Hum Vaccin, 2009, 5, 70-78.	2.4	131
13	Structure of mycobacterial ATP synthase bound to the tuberculosis drug bedaquiline. Nature, 2021, 589, 143-147.	13.7	110
14	Lsr2 of <i>Mycobacterium</i> Represents a Novel Class of H-NS-Like Proteins. Journal of Bacteriology, 2008, 190, 7052-7059.	1.0	109
15	Both Phthiocerol Dimycocerosates and Phenolic Glycolipids Are Required for Virulence of Mycobacterium marinum. Infection and Immunity, 2012, 80, 1381-1389.	1.0	101
16	Silencing of foreign DNA in bacteria. Current Opinion in Microbiology, 2012, 15, 175-181.	2.3	96
17	Variable Virulence and Efficacy of BCG Vaccine Strains in Mice and Correlation With Genome Polymorphisms. Molecular Therapy, 2016, 24, 398-405.	3.7	96
18	A mutant of Mycobacterium smegmatis defective in the biosynthesis of mycolic acids accumulates meromycolates. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4011-4016.	3.3	93

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19	Acquisition of Hrs, an Essential Component of Phagosomal Maturation, Is Impaired by Mycobacteria. Molecular and Cellular Biology, 2004, 24, 4593-4604.	1.1	90
20	Novel genome polymorphisms in BCG vaccine strains and impact on efficacy. BMC Genomics, 2008, 9, 413.	1.2	86
21	Activators of Cylindrical Proteases as Antimicrobials: Identification and Development of Small Molecule Activators of ClpP Protease. Chemistry and Biology, 2011, 18, 1167-1178.	6.2	86
22	Lsr2 of Mycobacterium tuberculosis is a DNA-bridging protein. Nucleic Acids Research, 2008, 36, 2123-2135.	6.5	84
23	Genome Sequencing and Analysis of BCG Vaccine Strains. PLoS ONE, 2013, 8, e71243.	1.1	84
24	PPE38 Modulates the Innate Immune Response and Is Required for Mycobacterium marinum Virulence. Infection and Immunity, 2012, 80, 43-54.	1.0	81
25	Identification of the lipooligosaccharide biosynthetic gene cluster from Mycobacterium marinum. Molecular Microbiology, 2007, 63, 1345-1359.	1.2	79
26	Nramp1 Modifies the Fusion of Salmonella typhimurium-containing Vacuoles with Cellular Endomembranes in Macrophages. Journal of Biological Chemistry, 2002, 277, 2258-2265.	1.6	73
27	Permeability properties of a large gated channel within the ferric enterobactin receptor, FepA.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 10653-10657.	3.3	70
28	LosA, a Key Glycosyltransferase Involved in the Biosynthesis of a Novel Family of Glycosylated Acyltrehalose Lipooligosaccharides from Mycobacterium marinum. Journal of Biological Chemistry, 2005, 280, 42124-42133.	1.6	62
29	A Mycobacterium smegmatis mutant with a defective inositol monophosphate phosphatase gene homolog has altered cell envelope permeability. Journal of Bacteriology, 1997, 179, 7827-7833.	1.0	61
30	Two Modes of Ligand Binding in Maltose-binding Protein ofEscherichia coli. Journal of Biological Chemistry, 1997, 272, 17610-17614.	1.6	58
31	Cell Wall Structure of a Mutant of Mycobacterium smegmatis Defective in the Biosynthesis of Mycolic Acids. Journal of Biological Chemistry, 2000, 275, 7224-7229.	1.6	57
32	A Site-Directed Spin-Labeling Study of Ligand-Induced Conformational Change in the Ferric Enterobactin Receptor, FepA. Biochemistry, 1994, 33, 13274-13283.	1.2	56
33	Differential productions of lipid virulence factors among BCG vaccine strains and implications on BCG safety. Vaccine, 2007, 25, 8114-8122.	1.7	56
34	Structural basis for targeting the ribosomal protein <scp>S</scp>1 of <scp><i>M</i></scp><i>ycobacterium tuberculosis</i> by pyrazinamide. Molecular Microbiology, 2015, 95, 791-803.	1.2	56
35	The Impact of Genome Region of Difference 4 (RD4) on Mycobacterial Virulence and BCG Efficacy. Frontiers in Cellular and Infection Microbiology, 2017, 7, 239.	1.8	56
36	A Novel AT-Rich DNA Recognition Mechanism for Bacterial Xenogeneic Silencer MvaT. PLoS Pathogens, 2015, 11, e1004967.	2.1	53

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37	PimF, a Mannosyltransferase of Mycobacteria, Is Involved in the Biosynthesis of Phosphatidylinositol Mannosides and Lipoarabinomannan. Journal of Biological Chemistry, 2004, 279, 18824-18833.	1.6	52
38	Mycobacterium tuberculosis 6C sRNA binds multiple mRNA targets via C-rich loops independent of RNA chaperones. Nucleic Acids Research, 2019, 47, 4292-4307.	6.5	50
39	CD36 deficiency attenuates experimental mycobacterial infection. BMC Infectious Diseases, 2010, 10, 299.	1.3	48
40	Mechanism of DNA organization by Mycobacterium tuberculosis protein Lsr2. Nucleic Acids Research, 2013, 41, 5263-5272.	6.5	48
41	Denaturant Unfolding of the Ferric Enterobactin Receptor and Ligand-Induced Stabilization Studied by Site-Directed Spin Labeling. Biochemistry, 1995, 34, 14230-14236.	1.2	44
42	Mycobacterium bovis BCG Vaccines Exhibit Defects in Alanine and Serine Catabolism. Infection and Immunity, 2003, 71, 708-716.	1.0	44
43	Spontaneous transposition of IS1096 or ISMsm3 leads to glycopeptidolipid overproduction and affects surface properties in Mycobacterium smegmatis. Tuberculosis, 2008, 88, 390-398.	0.8	41
44	pH-induced Conformational Changes of AcrA, the Membrane Fusion Protein of Escherichia coli Multidrug Efflux System. Journal of Biological Chemistry, 2003, 278, 50474-50482.	1.6	39
45	Modulation of Central Carbon Metabolism by Acetylation of Isocitrate Lyase in Mycobacterium tuberculosis. Scientific Reports, 2017, 7, 44826.	1.6	36
46	AsnB Is Involved in Natural Resistance of Mycobacterium smegmatis to Multiple Drugs. Antimicrobial Agents and Chemotherapy, 2006, 50, 250-255.	1.4	33
47	Malaria exacerbates experimental mycobacterial infection in vitro and in vivo. Microbes and Infection, 2010, 12, 864-874.	1.0	32
48	Loss of Lipid Virulence Factors Reduces the Efficacy of the BCG Vaccine. Scientific Reports, 2016, 6, 29076.	1.6	32
49	Impact of Methoxymycolic Acid Production by Mycobacterium bovis BCG Vaccines. Infection and Immunity, 2004, 72, 2803-2809.	1.0	31
50	Central Region of the Human Splicing Factor Hprp3p Interacts with Hprp4p. Journal of Biological Chemistry, 2002, 277, 23764-23772.	1.6	30
51	BCG Vaccines. Microbiology Spectrum, 2014, 2, MGM2-0028-2013.	1.2	30
52	MMAR_2770, a new enzyme involved in biotin biosynthesis, is essential for the growth of Mycobacterium marinum in macrophages and zebrafish. Microbes and Infection, 2011, 13, 33-41.	1.0	29
53	Whole-Genome Sequences of Four Mycobacterium bovis BCG Vaccine Strains. Journal of Bacteriology, 2011, 193, 3152-3153.	1.0	28
54	WhiB4 Regulates the PE/PPE Gene Family and is Essential for Virulence of Mycobacterium marinum. Scientific Reports, 2017, 7, 3007.	1.6	26

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55	Early innate and adaptive immune perturbations determine long-term severity of chronic virus and Mycobacterium tuberculosis coinfection. Immunity, 2021, 54, 526-541.e7.	6.6	25
56	A Rifampin-Hypersensitive Mutant Reveals Differences between Strains of Mycobacterium smegmatis and Presence of a Novel Transposon, IS1623. Antimicrobial Agents and Chemotherapy, 2003, 47, 3208-3213.	1.4	23
57	PhoY2 of Mycobacteria Is Required for Metabolic Homeostasis and Stress Response. Journal of Bacteriology, 2013, 195, 243-252.	1.0	23
58	How bacterial xenogeneic silencer rok distinguishes foreign from self DNA in its resident genome. Nucleic Acids Research, 2018, 46, 10514-10529.	6.5	23
59	Acetylation of lysine 182 inhibits the ability of <i>Mycobacterium tuberculosis</i> DosR to bind DNA and regulate gene expression during hypoxia. Emerging Microbes and Infections, 2018, 7, 1-12.	3.0	21
60	Mycobacterial Virulence Factors: Surface-Exposed Lipids and Secreted Proteins. International Journal of Molecular Sciences, 2020, 21, 3985.	1.8	21
61	Transcription factors Rv0081 and Rv3334 connect the early and the enduring hypoxic response of <i>Mycobacterium tuberculosis</i>. Virulence, 2018, 9, 1468-1482.	1.8	20
62	Targeting the global regulator Lsr2 as a novel approach for anti-tuberculosis drug development. Expert Review of Anti-Infective Therapy, 2012, 10, 1049-1053.	2.0	17
63	Xenogeneic Silencing and Bacterial Genome Evolution: Mechanisms for DNA Recognition Imply Multifaceted Roles of Xenogeneic Silencers. Molecular Biology and Evolution, 2021, 38, 4135-4148.	3.5	16
64	Recombinant BCG Overexpressing phoP-phoR Confers Enhanced Protection against Tuberculosis. Molecular Therapy, 2018, 26, 2863-2874.	3.7	15
65	MyBASE: a database for genome polymorphism and gene function studies of Mycobacterium. BMC Microbiology, 2009, 9, 40.	1.3	14
66	Intranasal HD-Ad vaccine protects the upper and lower respiratory tracts of hACE2 mice against SARS-CoV-2. Cell and Bioscience, 2021, 11, 202.	2.1	13
67	Immunogenicity and Protective Efficacy of a Fusion Protein Tuberculosis Vaccine Combining Five Esx Family Proteins. Frontiers in Cellular and Infection Microbiology, 2017, 7, 226.	1.8	12
68	Tuberculosis: Current Treatment and New Drug Development. Anti-Infective Agents in Medicinal Chemistry, 2006, 5, 331-344.	0.6	9
69	Preclinical Progress of Subunit and Live Attenuated Mycobacterium tuberculosis Vaccines: A Review following the First in Human Efficacy Trial. Pharmaceutics, 2020, 12, 848.	2.0	8
70	Transcriptome Changes of Mycobacterium marinum in the Process of Resuscitation From Hypoxia-Induced Dormancy. Frontiers in Genetics, 2019, 10, 1359.	1.1	7
71	Crosstalk between the ancestral type VII secretion system ESX-4 and other T7SS in Mycobacterium marinum. IScience, 2022, 25, 103585.	1.9	5
72	Binding of ATP as Well as Tetrahydrofolate Induces Conformational Changes inLactobacillus caseiFolylpolyglutamate Synthetase in Solutionâ€. Biochemistry, 2003, 42, 1537-1543.	1.2	3

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73	Interaction analysis of Mycobacterium tuberculosis between the host environment and highly mutated genes from population genetic structure comparison. Medicine (United States), 2021, 100, e27125.	0.4	3
74	WhiB4 Is Required for the Reactivation of Persistent Infection of Mycobacterium marinum in Zebrafish. Microbiology Spectrum, 2022, 10, e0044321.	1.2	2
75	1H, 13C, and 15N resonance assignments of reduced apo-WhiB4 from Mycobacterium tuberculosis. Biomolecular NMR Assignments, 2021, 15, 99-101.	0.4	1
76	Hiding behind the mycobacterial cell wall. Trends in Microbiology, 2014, 22, 110-112.	3.5	0
77	DNA binding mechanism of WhiB4 from Mycobacterium tuberculosis. Magnetic Resonance Letters, 2021, 2, 100010.	0.7	0
78	BCG Vaccines. , 0, , 49-59.		0
79	Mycobacterial Genomes. , 2006, , 151-174.		0