

Benfang Lei

List of Publications by Year in descending order

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76
papers

3,652
citations

109137

35
h-index

133063

59
g-index

76
all docs

76
docs citations

76
times ranked

2928
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequence of a serotype M3 strain of group A Streptococcus: Phage-encoded toxins, the high-virulence phenotype, and clone emergence. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10078-10083.	3.3	452
2	Action Mechanism of Antitubercular Isoniazid. Journal of Biological Chemistry, 2000, 275, 2520-2526.	1.6	175
3	Evasion of human innate and acquired immunity by a bacterial homolog of CD11b that inhibits opsonophagocytosis. Nature Medicine, 2001, 7, 1298-1305.	15.2	156
4	Genome-wide protective response used by group A Streptococcus to evade destruction by human polymorphonuclear leukocytes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1996-2001.	3.3	148
5	Identification and Immunogenicity of Group A Streptococcus Culture Supernatant Proteins. Infection and Immunity, 2000, 68, 6807-6818.	1.0	142
6	Prophage Induction and Expression of Prophage-Encoded Virulence Factors in Group A Streptococcus Serotype M3 Strain MGAS315. Infection and Immunity, 2003, 71, 7079-7086.	1.0	104
7	Direct Hemin Transfer from IsdA to IsdC in the Iron-regulated Surface Determinant (Isd) Heme Acquisition System of Staphylococcus aureus. Journal of Biological Chemistry, 2008, 283, 6668-6676.	1.6	104
8	Pathway for Heme Uptake from Human Methemoglobin by the Iron-regulated Surface Determinants System of Staphylococcus aureus. Journal of Biological Chemistry, 2008, 283, 18450-18460.	1.6	104
9	Identification and Characterization of a Novel Heme-Associated Cell Surface Protein Made by Streptococcus pyogenes. Infection and Immunity, 2002, 70, 4494-4500.	1.0	99
10	Decreased necrotizing fasciitis capacity caused by a single nucleotide mutation that alters a multiple gene virulence axis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 888-893.	3.3	99
11	Flavin Reductase: Structure of a Dimeric Enzyme That Reduces Flavin. Biochemistry, 1996, 35, 13531-13539.	1.2	98
12	The Mechanism of Direct Heme Transfer from the Streptococcal Cell Surface Protein Shp to HtsA of the HtsABC Transporter. Journal of Biological Chemistry, 2006, 281, 20761-20771.	1.6	81
13	Defects in ex vivo and in vivo growth and sensitivity to osmotic stress of group A Streptococcus caused by interruption of response regulator gene vicR. Microbiology (United Kingdom), 2006, 152, 967-978.	0.7	79
14	A periplasmic arsenite-binding protein involved in regulating arsenite oxidation. Environmental Microbiology, 2012, 14, 1624-1634.	1.8	79
15	Isoniazid Activation Defects in Recombinant Mycobacterium tuberculosis Catalase-Peroxidase (KatG) Mutants Evident in InhA Inhibitor Production. Antimicrobial Agents and Chemotherapy, 2003, 47, 670-675.	1.4	77
16	Identification and Characterization of HtsA, a Second Heme-Binding Protein Made by Streptococcus pyogenes. Infection and Immunity, 2003, 71, 5962-5969.	1.0	77
17	Identification of New Candidate Vaccine Antigens Made by Streptococcus pyogenes: Purification and Characterization of 16 Putative Extracellular Lipoproteins. Journal of Infectious Diseases, 2004, 189, 79-89.	1.9	75
18	Mechanism of Reduced Flavin Transfer from Vibrio harveyi NADPH-dependent FMN Oxidoreductase to Luciferase. Biochemistry, 1998, 37, 14623-14629.	1.2	74

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19	The surface protein Shr of <i>Streptococcus pyogenes</i> binds heme and transfers it to the streptococcal heme-binding protein Shp. <i>BMC Microbiology</i> , 2008, 8, 15.	1.3	69
20	Heme Transfer from Streptococcal Cell Surface Protein Shp to HtsA of Transporter HtsABC. <i>Infection and Immunity</i> , 2005, 73, 5086-5092.	1.0	64
21	Transient Weak Protein-Protein Complexes Transfer Heme Across the Cell Wall of <i>Staphylococcus aureus</i> . <i>Journal of the American Chemical Society</i> , 2011, 133, 14176-14179.	6.6	62
22	Insight of Host Immune Evasion Mediated by Two Variants of Group A <i>Streptococcus</i> Mac Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 52789-52796.	1.6	61
23	Opsonophagocytosis-Inhibiting Mac Protein of Group A <i>Streptococcus</i> : Identification and Characteristics of Two Genetic Complexes. <i>Infection and Immunity</i> , 2002, 70, 6880-6890.	1.0	56
24	The Secreted Esterase of Group A <i>Streptococcus</i> Is Important for Invasive Skin Infection and Dissemination in Mice. <i>Infection and Immunity</i> , 2009, 77, 5225-5232.	1.0	53
25	Neutrophil Isolation From Nonhuman Species. <i>Methods in Molecular Biology</i> , 2007, 412, 21-34.	0.4	53
26	ABC transporter FtsABCD of <i>Streptococcus pyogenes</i> mediates uptake of ferric ferrichrome. <i>BMC Microbiology</i> , 2005, 5, 62.	1.3	50
27	Bis-methionyl Coordination in the Crystal Structure of the Heme-binding Domain of the Streptococcal Cell Surface Protein Shp. <i>Journal of Molecular Biology</i> , 2007, 374, 374-383.	2.0	49
28	<i>Staphylococcus aureus</i> Uses a Novel Multidomain Receptor to Break Apart Human Hemoglobin and Steal Its Heme. <i>Journal of Biological Chemistry</i> , 2013, 288, 1065-1078.	1.6	49
29	Differential Regulation of Iron- and Manganese-Specific MtsABC and Heme-Specific HtsABC Transporters by the Metalloregulator MtsR of Group A <i>Streptococcus</i> . <i>Infection and Immunity</i> , 2006, 74, 5132-5139.	1.0	48
30	Characterization of an Extracellular Virulence Factor Made by Group A <i>Streptococcus</i> with Homology to the <i>Listeria monocytogenes</i> Internalin Family of Proteins. <i>Infection and Immunity</i> , 2003, 71, 7043-7052.	1.0	47
31	Neutrophils Select Hypervirulent CovRS Mutants of MIT1 Group A <i>Streptococcus</i> during Subcutaneous Infection of Mice. <i>Infection and Immunity</i> , 2014, 82, 1579-1590.	1.0	44
32	Active and Passive Immunizations with the Streptococcal Esterase Sse Protect Mice against Subcutaneous Infection with Group A <i>Streptococci</i> . <i>Infection and Immunity</i> , 2007, 75, 3651-3657.	1.0	43
33	Solution Structure and Molecular Determinants of Hemoglobin Binding of the First NEAT Domain of IldB in <i>Staphylococcus aureus</i> . <i>Biochemistry</i> , 2014, 53, 3922-3933.	1.2	40
34	Group A <i>Streptococcus</i> Secreted Esterase Hydrolyzes Platelet-Activating Factor to Impede Neutrophil Recruitment and Facilitate Innate Immune Evasion. <i>PLoS Pathogens</i> , 2012, 8, e1002624.	2.1	39
35	Bis-methionine Ligation to Heme Iron in the Streptococcal Cell Surface Protein Shp Facilitates Rapid Hemin Transfer to HtsA of the HtsABC Transporter. <i>Journal of Biological Chemistry</i> , 2007, 282, 31380-31388.	1.6	38
36	Identity of the Emitter in the Bacterial Luciferase Luminescence Reaction: Binding and Fluorescence Quantum Yield Studies of 5-Decyl-4a-hydroxy-4a,5-dihydro-10H-phenoxazine-10-phosphate as a Model.	1.2	36

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37	Stability and peptide binding specificity of Btk SH2 domain: Molecular basis for X-linked agammaglobulinemia. <i>Protein Science</i> , 2000, 9, 2377-2385.	3.1	35
38	Analysis of a Novel Prophage-encoded Group A Streptococcus Extracellular Phospholipase A2. <i>Journal of Biological Chemistry</i> , 2004, 279, 45909-45918.	1.6	35
39	Spectroscopic Identification of Heme Axial Ligands in HtsA That Are Involved in Heme Acquisition by <i>Streptococcus pyogenes</i> . <i>Biochemistry</i> , 2010, 49, 2834-2842.	1.2	34
40	<i>Vibrio harveyi</i> NADPH:FMN Oxidoreductase: Preparation and Characterization of the Apoenzyme and Monomer-Dimer Equilibrium. <i>Archives of Biochemistry and Biophysics</i> , 1997, 337, 89-95.	1.4	31
41	Non-Heme-Binding Domains and Segments of the <i>Staphylococcus aureus</i> IsdB Protein Critically Contribute to the Kinetics and Equilibrium of Heme Acquisition from Methemoglobin. <i>PLoS ONE</i> , 2014, 9, e100744.	1.1	31
42	Regulation of Inhibition of Neutrophil Infiltration by the Two-Component Regulatory System CovRS in Subcutaneous Murine Infection with Group A Streptococcus. <i>Infection and Immunity</i> , 2013, 81, 974-983.	1.0	26
43	Identification and characterization of the heme-binding proteins SeShp and SeHtsA of <i>Streptococcus equi</i> subspecies <i>equi</i> . <i>BMC Microbiology</i> , 2006, 6, 82.	1.3	24
44	<i>Vibrio harveyi</i> NADPH-FMN Oxidoreductase Arg203 as a Critical Residue for NADPH Recognition and Binding. <i>Biochemistry</i> , 2000, 39, 7813-7819.	1.2	21
45	Relationship between the Conserved Subunit Arginine 107 and Effects of Phosphate on the Activity and Stability of <i>Vibrio harveyi</i> Luciferase. <i>Archives of Biochemistry and Biophysics</i> , 1999, 370, 45-50.	1.4	20
46	Serotype M3 and M28 Group A Streptococci Have Distinct Capacities to Evade Neutrophil and TNF Responses and to Invade Soft Tissues. <i>PLoS ONE</i> , 2015, 10, e0129417.	1.1	20
47	Toward a genome-scale understanding of group A Streptococcus pathogenesis. <i>Current Opinion in Microbiology</i> , 2001, 4, 65-70.	2.3	19
48	Direct Heme Transfer Reactions in the Group A Streptococcus Heme Acquisition Pathway. <i>PLoS ONE</i> , 2012, 7, e37556.	1.1	17
49	The Mga Regulon but Not Deoxyribonuclease Sda1 of Invasive MIT1 Group A Streptococcus Contributes to <i>In Vivo</i> Selection of CovRS Mutations and Resistance to Innate Immune Killing Mechanisms. <i>Infection and Immunity</i> , 2015, 83, 4293-4303.	1.0	16
50	Null Mutations of Group A Streptococcus Orphan Kinase RocA: Selection in Mouse Infection and Comparison with CovS Mutations in Alteration of <i>In Vitro</i> and <i>In Vivo</i> Protease SpeB Expression and Virulence. <i>Infection and Immunity</i> , 2017, 85, .	1.0	16
51	Lipid Oxidation in Trout Muscle Is Strongly Inhibited by a Protein That Specifically Binds Hemin Released from Hemoglobin. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4180-4187.	2.4	15
52	Histidine and Aspartic Acid Residues Important for Immunoglobulin G Endopeptidase Activity of the Group A Streptococcus Opsonophagocytosis-Inhibiting Mac Protein. <i>Infection and Immunity</i> , 2003, 71, 2881-2884.	1.0	14
53	Esterase SeE of <i>Streptococcus equi</i> ssp. <i>equi</i> is a novel nonspecific carboxylic ester hydrolase. <i>FEMS Microbiology Letters</i> , 2008, 289, 181-186.	0.7	13
54	Axial Ligand Replacement Mechanism in Heme Transfer from Streptococcal Heme-Binding Protein Shp to HtsA of the HtsABC Transporter. <i>Biochemistry</i> , 2013, 52, 6537-6547.	1.2	11

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55	Characterization of Streptococcal Platelet-Activating Factor Acetylhydrolase Variants That Are Involved in Innate Immune Evasion. <i>Infection and Immunity</i> , 2013, 81, 3128-3138.	1.0	11
56	Requirement and Synergistic Contribution of Platelet-Activating Factor Acetylhydrolase Sse and Streptolysin S to Inhibition of Neutrophil Recruitment and Systemic Infection by Hypervirulent <i>emm3</i> Group A <i>Streptococcus</i> in Subcutaneous Infection of Mice. <i>Infection and Immunity</i> , 2017, 85, .	1.0	11
57	Contemporary Pharyngeal and Invasive <i>emm1</i> and Invasive <i>emm12</i> Group A <i>Streptococcus</i> Isolates Exhibit Similar In Vivo Selection for CovRS Mutants in Mice. <i>PLoS ONE</i> , 2016, 11, e0162742.	1.1	11
58	The <i>sagA</i> / <i>pel</i> locus does not regulate the expression of the M protein of the MIT1 lineage of group A <i>Streptococcus</i> . <i>Virulence</i> , 2013, 4, 698-706.	1.8	10
59	Probing the Mechanisms of the Biological Intermolecular Transfer of Reduced Flavin. <i>Journal of Nutrition</i> , 2000, 130, 331S-332S.	1.3	9
60	Characterization of the Binding of Photobacterium phosphoreum P-flavin by <i>Vibrio harveyi</i> Luciferase. <i>Archives of Biochemistry and Biophysics</i> , 2001, 396, 199-206.	1.4	9
61	Reply to "Streptococcus pyogenes and phagocytic killing". <i>Nature Medicine</i> , 2002, 8, 1045-1046.	15.2	8
62	The Two-Component Regulatory System VicRK is Important to Virulence of <i>Streptococcus equi</i> Subspecies <i>equi</i> . <i>Open Microbiology Journal</i> , 2008, 2, 89-93.	0.2	8
63	Benfang Lei's research on heme acquisition in Gram-positive pathogens and bacterial pathogenesis. <i>World Journal of Biological Chemistry</i> , 2010, 1, 286.	1.7	8
64	Crystallization and Preliminary Crystallographic Analysis of NADPH:FMN Oxidoreductase from <i>Vibrio harveyi</i> . <i>Journal of Molecular Biology</i> , 1994, 241, 283-287.	2.0	6
65	Redox Potential and Equilibria in the Reductive Half-Reaction of <i>Vibrio harveyi</i> NADPH ⁺ FMN Oxidoreductase. <i>Biochemistry</i> , 2005, 44, 261-267.	1.2	6
66	A Neutralizing Monoclonal IgG1 Antibody of Platelet-Activating Factor Acetylhydrolase SsE Protects Mice against Lethal Subcutaneous Group A <i>Streptococcus</i> Infection. <i>Infection and Immunity</i> , 2015, 83, 2796-2805.	1.0	6
67	Hypervirulent Group A <i>Streptococcus</i> of Genotype <i>emm3</i> Invades the Vascular System in Pulmonary Infection of Mice. <i>Infection and Immunity</i> , 2018, 86, .	1.0	6
68	1H, 13C, 15N backbone and side chain NMR resonance assignments of the N-terminal NEAr iron transporter domain 1 (NEAT 1) of the hemoglobin receptor <i>IsdB</i> of <i>Staphylococcus aureus</i> . <i>Biomolecular NMR Assignments</i> , 2014, 8, 201-205.	0.4	5
69	Pathogenesis of Hypervirulent Group A <i>Streptococcus</i> . <i>Japan Journal of Medicine</i> , 2018, 1, 269-275.	0.0	5
70	Tissue Tropism in Streptococcal Infection: Wild-Type MIT1 Group A <i>Streptococcus</i> Is Efficiently Cleared by Neutrophils Using an NADPH Oxidase-Dependent Mechanism in the Lung but Not in the Skin. <i>Infection and Immunity</i> , 2019, 87, .	1.0	4
71	Isolation of Neutrophils from Nonhuman Species. <i>Methods in Molecular Biology</i> , 2020, 2087, 43-59.	0.4	3
72	IgG Endopeptidase SeMac does not Inhibit Opsonophagocytosis of <i>Streptococcus equi</i> Subspecies <i>equi</i> by Horse Polymorphonuclear Leukocytes. <i>Open Microbiology Journal</i> , 2010, 4, 20-25.	0.2	2

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73	Complete Genome Sequence of Hypervirulent Streptococcus pyogenes emm 3 Strain 1838. Microbiology Resource Announcements, 2019, 8, .	0.3	1
74	A Naturally Occurring Single Nucleotide Mutation Significantly Impairs Necrotizing Fasciitis (â€œFlesh) Tj ETQq0 0 0 rgBT /Overlock 10	0.2	1
75	Iron Metabolismã†. , 2015, , 748-748.		0
76	Host-to-Host Group A Streptococcus Transmission Causes Infection of the Lamina Propria but not Epithelium of the Upper Respiratory Tract in MyD88-Deficient Mice. Infection and Immunity, 2021, , IAI0042321.	1.0	0