Lei Wang

List of Publications by Year
in descending order

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62 papers	2,899 citations	201674 27 h-index	175258 52 g-index
64 all docs	64 docs citations	64 times ranked	3550 citing authors

#	Article	IF	Citations
1	Organization of Escherichia coli O157 O Antigen Gene Cluster and Identification of Its Specific Genes. Infection and Immunity, 1998, 66, 3545-3551.	2.2	229
2	Structural diversity inSalmonellaO antigens and its genetic basis. FEMS Microbiology Reviews, 2014, 38, 56-89.	8.6	175
3	Crystal Structure of Long-Chain Alkane Monooxygenase (LadA) in Complex with Coenzyme FMN: Unveiling the Long-Chain Alkane Hydroxylase. Journal of Molecular Biology, 2008, 376, 453-465.	4.2	163
4	Structure and genetics ofEscherichia coliO antigens. FEMS Microbiology Reviews, 2020, 44, 655-683.	8.6	143
5	A Recalibrated Molecular Clock and Independent Origins for the Cholera Pandemic Clones. PLoS ONE, 2008, 3, e4053.	2.5	140
6	Rates of Mutation and Host Transmission for an Escherichia coli Clone over 3 Years. PLoS ONE, 2011, 6, e26907.	2.5	132
7	Complete Genome Sequence of Enterobacter cloacae subsp. cloacae Type Strain ATCC 13047. Journal of Bacteriology, 2010, 192, 2463-2464.	2.2	123
8	Derivation of Escherichia coli O157:H7 from Its O55:H7 Precursor. PLoS ONE, 2010, 5, e8700.	2.5	109
9	Genomic Sequencing Reveals Regulatory Mutations and Recombinational Events in the Widely Used MC4100 Lineage ofEscherichia coliK-12. Journal of Bacteriology, 2009, 191, 4025-4029.	2.2	98
10	A multiplex PCR method to detect 14 Escherichia coli serogroups associated with urinary tract infections. Journal of Microbiological Methods, 2010, 82, 71-77.	1.6	91
11	Divergence Involving Global Regulatory Gene Mutations in an Escherichia coli Population Evolving under Phosphate Limitation. Genome Biology and Evolution, 2010, 2, 478-487.	2.5	82
12	The Variation of O Antigens in Gram-Negative Bacteria. Sub-Cellular Biochemistry, 2010, 53, 123-152.	2.4	79
13	Genome characteristics reveal the impact of lichenization on lichen-forming fungus Endocarpon pusillum Hedwig (Verrucariales, Ascomycota). BMC Genomics, 2014, 15, 34.	2.8	79
14	Salmonella Typhimurium reprograms macrophage metabolism via T3SS effector SopE2 to promote intracellular replication and virulence. Nature Communications, 2021, 12, 879.	12.8	74
15	Encapsulated in silica: genome, proteome and physiology of the thermophilic bacterium Anoxybacillus flavithermus WK1. Genome Biology, 2008, 9, R161.	9.6	71
16	Signal transduction pathway mediated by the novel regulator LoiA for low oxygen tension induced Salmonella Typhimurium invasion. PLoS Pathogens, 2017, 13, e1006429.	4.7	67
17	Genetic Analysis of the Cronobacter sakazakii O4 to O7 O-Antigen Gene Clusters and Development of a PCR Assay for Identification of All C. sakazakii O Serotypes. Applied and Environmental Microbiology, 2012, 78, 3966-3974.	3.1	65
18	Development of a Serotype-Specific DNA Microarray for Identification of Some Shigella and Pathogenic Escherichia coli Strains. Journal of Clinical Microbiology, 2006, 44, 4376-4383.	3.9	63

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19	Structural and Genetic Characterization of Enterohemorrhagic Escherichia coli O145 O Antigen and Development of an O145 Serogroup-Specific PCR Assay. Journal of Bacteriology, 2005, 187, 758-764.	2.2	61
20	Complete Genome Sequence of Staphylococcus aureus T0131, an ST239-MRSA-SCC mec Type III Clone Isolated in China. Journal of Bacteriology, 2011, 193, 3411-3412.	2.2	51
21	Detection of Enterobacter sakazakii and Other Pathogens Associated with Infant Formula Powder by Use of a DNA Microarray. Journal of Clinical Microbiology, 2009, 47, 3178-3184.	3.9	48
22	Development of a Multiplex PCR Assay for Detection and Genogrouping of Neisseria meningitidis. Journal of Clinical Microbiology, 2012, 50, 46-51.	3.9	47
23	DNA Microarray-Based Identification of Serogroups and Virulence Gene Patterns of Escherichia coli Isolates Associated with Porcine Postweaning Diarrhea and Edema Disease. Applied and Environmental Microbiology, 2007, 73, 4082-4088.	3.1	38
24	Development of a serogroup-specific multiplex PCR assay to detect a set of Escherichia coli serogroups based on the identification of their O-antigen gene clusters. Molecular and Cellular Probes, 2010, 24, 286-290.	2.1	38
25	Development of a DNA microarray to identify the Streptococcus pneumoniae serotypes contained in the 23-valent pneumococcal polysaccharide vaccine and closely related serotypes. Journal of Microbiological Methods, 2007, 68, 128-136.	1.6	31
26	RNA-Seq of the xylose-fermenting yeast Scheffersomyces stipitis cultivated in glucose or xylose. Applied Microbiology and Biotechnology, 2011, 92, 1237-1249.	3.6	30
27	Genome-Wide Analysis of the Salmonella Fis Regulon and Its Regulatory Mechanism on Pathogenicity Islands. PLoS ONE, 2013, 8, e64688.	2.5	29
28	Biochemical characterization of WbdN, a Î²1,3-glucosyltransferase involved in O-antigen synthesis in enterohemorrhagic Escherichia coli O157. Glycobiology, 2012, 22, 1092-1102.	2.5	28
29	Characterization of Escherichia coli O86 O-antigen gene cluster and identification of O86-specific genes. Veterinary Microbiology, 2005, 106, 241-248.	1.9	27
30	Sequence Analysis of the Escherichia coli O15 Antigen Gene Cluster and Development of a PCR Assay for Rapid Detection of Intestinal and Extraintestinal Pathogenic E. coli O15 Strains. Journal of Clinical Microbiology, 2005, 43, 703-710.	3.9	27
31	Use of a DNA Microarray for Detection and Identification of Bacterial Pathogens Associated with Fishery Products. Applied and Environmental Microbiology, 2011, 77, 8219-8225.	3.1	27
32	Structural and genetic characterization of the Shigella boydii type 18 O antigen. Gene, 2005, 355, 79-86.	2.2	26
33	Biochemical Characterization of UDP-Gal:GlcNAc-Pyrophosphate-Lipid Î²-1,4-Galactosyltransferase WfeD, a New Enzyme from Shigella boydii Type 14 That Catalyzes the Second Step in O-Antigen Repeating-Unit Synthesis. Journal of Bacteriology, 2011, 193, 449-459.	2.2	26
34	Genetic and structural relationships of Salmonella O55 and Escherichia coli O103 O-antigens and identification of a 3-hydroxybutanoyltransferase gene involved in the synthesis of a Fuc3N derivative. Glycobiology, 2010, 20, 679-688.	2.5	25
35	Development of PCR Assays Targeting the Genes Involved in Synthesis and Assembly of the New Escherichia coli O174 and O177 O Antigens. Journal of Clinical Microbiology, 2005, 43, 5143-5149.	3.9	24
36	Genetic diversity of the O antigens of Proteus species and the development of a suspension array for molecular serotyping. PLoS ONE, 2017, 12, e0183267.	2.5	24

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37	Genetic Study of Capsular Switching between Neisseria meningitidis Sequence Type 7 Serogroup A and C Strains. Infection and Immunity, 2010, 78, 3883-3888.	2.2	22
38	Genomic Identification of a Novel Mutation in hfq That Provides Multiple Benefits in Evolving Glucose-Limited Populations of Escherichia coli. Journal of Bacteriology, 2010, 192, 4517-4521.	2.2	21
39	A novel non-homologous recombination-mediated mechanism for Escherichia coli unilateral flagellar phase variation. Nucleic Acids Research, 2012, 40, 4530-4538.	14.5	21
40	Development of a DNA Microarray Method for Detection and Identification of All 15 Distinct O-Antigen Forms of Legionella pneumophila. Applied and Environmental Microbiology, 2013, 79, 6647-6654.	3.1	20
41	A gene cluster at an unusual chromosomal location responsible for the novel O-antigen synthesis in Escherichia coli O62 by the ABC transporter-dependent pathway. Glycobiology, 2017, 27, 669-676.	2.5	20
42	Structural and Genetic Characterization of the Shigella boydii Type 10 and Type 6 O Antigens. Journal of Bacteriology, 2005, 187, 2551-2554.	2.2	19
43	Living Trees: High-Quality Reproducible and Reusable Construction of Bacterial Phylogenetic Trees. Molecular Biology and Evolution, 2020, 37, 563-575.	8.9	17
44	Molecular and Genetic Analyses of the Putative Proteus O Antigen Gene Locus. Applied and Environmental Microbiology, 2010, 76, 5471-5478.	3.1	16
45	PCR methods for the rapid detection and identification of four pathogenic Legionella spp. and two Legionella pneumophila subspecies based on the gene amplification of gyrB. Applied Microbiology and Biotechnology, 2011, 91, 777-787.	3.6	16
46	Simple Phenotypic Sweeps Hide Complex Genetic Changes in Populations. Genome Biology and Evolution, 2015, 7, 531-544.	2.5	16
47	Bladder epithelial cell phosphate transporter inhibition protects mice against uropathogenic Escherichia coli infection. Cell Reports, 2022, 39, 110698.	6.4	14
48	Structural and molecular characterization of Shigella boydii type 16 O antigen. Gene, 2006, 380, 46-53.	2.2	13
49	Elucidation of a complete mechanical signaling and virulence activation pathway in enterohemorrhagic Escherichia coli. Cell Reports, 2022, 39, 110614.	6.4	13
50	A New Oligonucleotide Microarray for Detection of Pathogenic and Non-Pathogenic Legionella spp.. PLoS ONE, 2014, 9, e113863.	2.5	11
51	The O-antigen gene cluster of Shigella boydii O11 and functional identification of its wzy gene. FEMS Microbiology Letters, 2004, 234, 125-132.	1.8	10
52	Structural and genetic characterization of Shigella boydii type 17 O antigen and confirmation of two new genes involved in the synthesis of glucolactilic acid. Biochemical and Biophysical Research Communications, 2006, 349, 289-295.	2.1	9
53	Identification of the two glycosyltransferase genes responsible for the difference between Escherichia coli O107 and O117 O-antigens. Glycobiology, 2012, 22, 281-287.	2.5	9
54	Characterization of the CDP-2-Glycerol Biosynthetic Pathway in Streptococcus pneumoniae. Journal of Bacteriology, 2010, 192, 5506-5514.	2.2	8

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55	Genetic Diversity of O-Antigens in Hafnia alvei and the Development of a Suspension Array for Serotype Detection. PLoS ONE, 2016, 11, e0155115.	2.5	8
56	Research progress in genomics of environmental and industrial microorganisms. Science in China Series C: Life Sciences, 2009, 52, 64-73.	1.3	7
57	Bacteria reduce flagellin synthesis to evade microglia-astrocyte-driven immunity in the brain. Cell Reports, 2022, 40, 111033.	6.4	7
58	A fructose/H+ symporter controlled by a LacI-type regulator promotes survival of pandemic Vibrio cholerae in seawater. Nature Communications, 2021, 12, 4649.	12.8	6
59	Structural comparison of O-antigen gene clusters of Legionella pneumophila and its application of a serogroup-specific multiplex PCR assay. Antonie Van Leeuwenhoek, 2015, 108, 1405-1423.	1.7	3
60	Attachment of Enterohemorrhagic Escherichia coli to Host Cells Reduces O Antigen Chain Length at the Infection Site That Promotes Infection. MBio, 2021, 12, e0269221.	4.1	2
61	A gyrB oligonucleotide microarray for the specific detection of pathogenic Legionella and three Legionella pneumophila subsp.. Antonie Van Leeuwenhoek, 2017, 110, 1515-1525.	1.7	1
62	Characterization of the O-antigen gene clusters and development of a molecular serotyping method for Vibrio fluvialis. International Journal of Food Microbiology, 2022, 370, 109665.	4.7	0