

# Chung-Dar Lu

## List of Publications by Citations

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62  
papers

1,996  
citations

28  
h-index

43  
g-index

62  
ext. papers

2,280  
ext. citations

3.8  
avg. IF

4.81  
L-index

#	Paper	IF	Citations
62	Polyamine effects on antibiotic susceptibility in bacteria. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2007</b> , 51, 2070-7	5.9	97
61	Polyamines induce resistance to cationic peptide, aminoglycoside, and quinolone antibiotics in <i>Pseudomonas aeruginosa</i> PAO1. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2006</b> , 50, 1615-22	5.9	96
60	Nonclassical protein secretion by <i>Bacillus subtilis</i> in the stationary phase is not due to cell lysis. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 5607-15	3.5	82
59	Pathways and regulation of bacterial arginine metabolism and perspectives for obtaining arginine overproducing strains. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 70, 261-72	5.7	79
58	Molecular cloning and characterization of two thermostable carboxyl esterases from <i>Geobacillus stearothermophilus</i> . <i>Gene</i> , <b>2004</b> , 329, 187-95	3.8	77
57	Regulation of carbon and nitrogen utilization by CbrAB and NtrBC two-component systems in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 5413-20	3.5	75
56	Functional analysis and regulation of the divergent spuABCDEFGH-spuI operons for polyamine uptake and utilization in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 3765-73	3.5	73
55	The ArgR regulatory protein, a helper to the anaerobic regulator ANR during transcriptional activation of the arcD promoter in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 2459-64	3.5	69
54	Characterization of the arginine repressor from <i>Salmonella typhimurium</i> and its interactions with the carAB operator. <i>Journal of Molecular Biology</i> , <b>1992</b> , 225, 11-24	6.5	68
53	Transcriptome analysis of agmatine and putrescine catabolism in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 1966-75	3.5	67
52	Polyamines increase antibiotic susceptibility in <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2006</b> , 50, 1623-7	5.9	64
51	Molecular characterization and regulation of the aguBA operon, responsible for agmatine utilization in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 6517-24	3.5	61
50	Molecular characterization and regulation of an operon encoding a system for transport of arginine and ornithine and the ArgR regulatory protein in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 5559-66	3.5	60
49	Structure-based discovery and experimental verification of novel AI-2 quorum sensing inhibitors against <i>Vibrio harveyi</i> . <i>ChemMedChem</i> , <b>2008</b> , 3, 1242-9	3.7	53
48	Transcriptome analysis of the ArgR regulon in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 3855-61	3.5	53
47	Arginine racemization by coupled catabolic and anabolic dehydrogenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 906-11	11.5	50
46	Covalent reaction intermediate revealed in crystal structure of the <i>Geobacillus stearothermophilus</i> carboxylesterase Est30. <i>Journal of Molecular Biology</i> , <b>2004</b> , 342, 551-61	6.5	47

45	Synthesis and evaluation of new antagonists of bacterial quorum sensing in <i>Vibrio harveyi</i> . <i>ChemMedChem</i> , <b>2009</b> , 4, 1457-68	3.7	44
44	Functional genomics enables identification of genes of the arginine transaminase pathway in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 3945-53	3.5	43
43	The <i>gdhB</i> gene of <i>Pseudomonas aeruginosa</i> encodes an arginine-inducible NAD(+)-dependent glutamate dehydrogenase which is subject to allosteric regulation. <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 490-9	3.5	43
42	Amino acid-mediated induction of the basic amino acid-specific outer membrane porin OprD from <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 5426-32	3.5	43
41	Identification of boronic acids as antagonists of bacterial quorum sensing in <i>Vibrio harveyi</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 369, 590-4	3.4	40
40	Role of ArgR in activation of the <i>ast</i> operon, encoding enzymes of the arginine succinyltransferase pathway in <i>Salmonella typhimurium</i> . <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 1934-8	3.5	38
39	Nucleotide sequence of the <i>carA</i> gene and regulation of the <i>carAB</i> operon in <i>Salmonella typhimurium</i> . <i>FEBS Journal</i> , <b>1988</b> , 176, 421-9		35
38	Promoter recognition and activation by the global response regulator CbrB in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 2784-92	3.5	34
37	Molecular cloning and characterization of the <i>Salmonella enterica</i> Serovar Paratyphi B <i>rma</i> Gene, which confers multiple drug resistance in <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2002</b> , 46, 360-6	5.9	34
36	The multifaceted proteins MvaT and MvaU, members of the H-NS family, control arginine metabolism, pyocyanin synthesis, and prophage activation in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 6211-8	3.5	31
35	Functional characterization of seven $\epsilon$ -Glutamylpolyamine synthetase genes and the <i>bauRABCD</i> locus for polyamine and $\beta$ -Alanine utilization in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 3923-30	3.5	31
34	Regulation and characterization of the <i>dadRAX</i> locus for D-amino acid catabolism in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 2107-15	3.5	27
33	Regulation of the <i>dauBAR</i> operon and characterization of D-amino acid dehydrogenase <i>DauA</i> in arginine and lysine catabolism of <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , <b>2010</b> , 156, 60-71	2.9	24
32	Cloning and characterization of acetohydroxyacid synthase from <i>Bacillus stearothermophilus</i> . <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 570-4	3.5	24
31	Conformational changes and substrate recognition in <i>Pseudomonas aeruginosa</i> D-arginine dehydrogenase. <i>Biochemistry</i> , <b>2010</b> , 49, 8535-45	3.2	23
30	An internal hydrophobic helical domain of <i>Bacillus subtilis</i> enolase is essential but not sufficient as a non-cleavable signal for its secretion. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 446, 901-5	3.4	22
29	Design, synthesis, and evaluation of efflux substrate-metal chelator conjugates as potential antimicrobial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2007</b> , 17, 707-11	2.9	22
28	The arginine regulatory protein mediates repression by arginine of the operons encoding glutamate synthase and anabolic glutamate dehydrogenase in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 3848-54	3.5	22

27	Inhibition of quorum sensing in <i>Vibrio harveyi</i> by boronic acids. <i>Chemical Biology and Drug Design</i> , <b>2009</b> , 74, 51-6	2.9	21
26	Osmotic shock: a mechanosensitive channel blocker can prevent release of cytoplasmic but not periplasmic proteins. <i>FEMS Microbiology Letters</i> , <b>2005</b> , 253, 295-301	2.9	20
25	Crystal structure of the <i>Geobacillus stearothermophilus</i> carboxylesterase Est55 and its activation of prodrug CPT-11. <i>Journal of Molecular Biology</i> , <b>2007</b> , 367, 212-23	6.5	19
24	L-lysine catabolism is controlled by L-arginine and ArgR in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 5874-80	3.5	16
23	Characterization of an arginine:pyruvate transaminase in arginine catabolism of <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 3954-9	3.5	14
22	Complete sequence of the <i>Salmonella typhimurium</i> gene encoding malate dehydrogenase. <i>Gene</i> , <b>1993</b> , 123, 143-4	3.8	14
21	Functional characterization of the potRABCD operon for spermine and spermidine uptake and regulation in <i>Staphylococcus aureus</i> . <i>Current Microbiology</i> , <b>2014</b> , 69, 75-81	2.4	12
20	Functional characterization of the dguRABC locus for D-Glu and d-Gln utilization in <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , <b>2014</b> , 160, 2331-2340	2.9	11
19	A PBP 2 mutant devoid of the transpeptidase domain abolishes spermine- $\beta$ -lactam synergy in <i>Staphylococcus aureus</i> Mu50. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2012</b> , 56, 83-91	5.9	11
18	Cloning and characterization of the arginine-specific carbamoyl-phosphate synthetase from <i>Bacillus stearothermophilus</i> . <i>FEBS Journal</i> , <b>1997</b> , 249, 443-9		11
17	Induction of the pho regulon and polyphosphate synthesis against spermine stress in <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , <b>2017</b> , 104, 1037-1051	4.1	10
16	Molecular characterization of PauR and its role in control of putrescine and cadaverine catabolism through the $\beta$ -glutamylatation pathway in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 3906-13	3.5	10
15	Molecular characterization of LhpR in control of hydroxyproline catabolism and transport in <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , <b>2016</b> , 162, 1232-1242	2.9	9
14	Time-related transcriptome analysis of <i>B. subtilis</i> 168 during growth with glucose. <i>Current Microbiology</i> , <b>2014</b> , 68, 12-20	2.4	8
13	Mechanism of pyocyanin abolishment caused by double knockout in PAO1. <i>Virulence</i> , <b>2019</b> , 11, 57-67	4.7	8
12	Molecular characterization of lysR-lysXE, gcdR-gcdHG and amaR-amaAB operons for lysine export and catabolism: a comprehensive lysine catabolic network in <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , <b>2016</b> , 162, 876-888	2.9	7
11	Differential expression of secretion machinery during bacterial growth: SecY and SecF decrease while SecA increases during transition from exponential phase to stationary phase. <i>Current Microbiology</i> , <b>2013</b> , 67, 682-7	2.4	6
10	The Cryptic dsdA Gene Encodes a Functional D-Serine Dehydratase in <i>Pseudomonas aeruginosa</i> PAO1. <i>Current Microbiology</i> , <b>2016</b> , 72, 788-94	2.4	5

9	A novel <i>Pseudomonas aeruginosa</i> strain with an oprD mutation in relation to a nosocomial respiratory infection outbreak in an intensive care unit. <i>Journal of Clinical Microbiology</i> , <b>2014</b> , 52, 4388-98	8.7	5
8	Characterization of <i>Staphylococcus aureus</i> responses to spermine stress. <i>Current Microbiology</i> , <b>2014</b> , 69, 394-403	2.4	5
7	Participation of the purine repressor in control of the carbamoylphosphate synthetase operon in <i>Salmonella typhimurium</i> . <i>Molecular Microbiology</i> , <b>1995</b> , 17, 981-8	4.1	5
6	Molecular characterization and regulation of operons for asparagine and aspartate uptake and utilization in <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , <b>2018</b> , 164, 205-216	2.9	5
5	γ-Glutamyl Spermine Synthetase PauA2 as a potential target of antibiotic development against <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2012</b> , 56, 5309-14	5.9	4
4	Unconventional integration of the bla gene from plasmid pIT2 during ISlacZ/hah transposon mutagenesis in <i>Pseudomonas aeruginosa</i> PAO1. <i>Current Microbiology</i> , <b>2009</b> , 58, 472-7	2.4	4
3	Functional characterization of the agtABCD and agtSR operons for 4-aminobutyrate and 5-aminovalerate uptake and regulation in <i>Pseudomonas aeruginosa</i> PAO1. <i>Current Microbiology</i> , <b>2014</b> , 68, 59-63	2.4	3
2	Support Vector Machine with the Fuzzy Hybrid Kernel for Protein Subcellular Localization Classification		2
1	Spermine and oxacillin stress response on the cell wall synthesis and the global gene expression analysis in Methicillin-resistance <i>Staphylococcus aureus</i> . <i>Genes and Genomics</i> , <b>2019</b> , 41, 43-59	2.1	