

Chung-Dar Lu

List of Publications by Year in descending order

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62
papers

2,481
citations

172207

29
h-index

205818

48
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62
all docs

62
docs citations

62
times ranked

2731
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyamine Effects on Antibiotic Susceptibility in Bacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 2070-2077.	1.4	130
2	Pathways and regulation of bacterial arginine metabolism and perspectives for obtaining arginine overproducing strains. <i>Applied Microbiology and Biotechnology</i> , 2006, 70, 261-272.	1.7	122
3	Polyamines Induce Resistance to Cationic Peptide, Aminoglycoside, and Quinolone Antibiotics in <i>Pseudomonas aeruginosa</i> PAO1. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 1615-1622.	1.4	108
4	Functional Analysis and Regulation of the Divergent spuABCDEFGH-spu Operons for Polyamine Uptake and Utilization in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2002, 184, 3765-3773.	1.0	93
5	Molecular cloning and characterization of two thermostable carboxyl esterases from <i>Geobacillus stearothermophilus</i> . <i>Gene</i> , 2004, 329, 187-195.	1.0	92
6	Regulation of Carbon and Nitrogen Utilization by CbrAB and NtrBC Two-Component Systems in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2007, 189, 5413-5420.	1.0	91
7	Nonclassical Protein Secretion by <i>Bacillus subtilis</i> in the Stationary Phase Is Not Due to Cell Lysis. <i>Journal of Bacteriology</i> , 2011, 193, 5607-5615.	1.0	90
8	Polyamines Increase Antibiotic Susceptibility in <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 1623-1627.	1.4	83
9	Transcriptome Analysis of the ArgR Regulon in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2004, 186, 3855-3861.	1.0	82
10	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> , 1998, 180, 5559-5566.	1.0	82
11	Transcriptome Analysis of Agmatine and Putrescine Catabolism in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2008, 190, 1966-1975.	1.0	81
12	The ArgR Regulatory Protein, a Helper to the Anaerobic Regulator ANR during Transcriptional Activation of the <i>arcD</i> Promoter in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 1999, 181, 2459-2464.	1.0	80
13	Characterization of the arginine repressor from <i>Salmonella typhimurium</i> and its interactions with the <i>carAB</i> operator. <i>Journal of Molecular Biology</i> , 1992, 225, 11-24.	2.0	76
14	Arginine racemization by coupled catabolic and anabolic dehydrogenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 906-911.	3.3	68
15	Molecular Characterization and Regulation of the <i>aguBA</i> Operon, Responsible for Agmatine Utilization in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2001, 183, 6517-6524.	1.0	66
16	Structure-Based Discovery and Experimental Verification of Novel Ala^{C}_2 Quorum Sensing Inhibitors against <i>Vibrio harveyi</i> . <i>ChemMedChem</i> , 2008, 3, 1242-1249.	1.6	62
17	Covalent Reaction Intermediate Revealed in Crystal Structure of the <i>Geobacillus stearothermophilus</i> Carboxylesterase Est30. <i>Journal of Molecular Biology</i> , 2004, 342, 551-561.	2.0	54
18	Functional Genomics Enables Identification of Genes of the Arginine Transaminase Pathway in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2007, 189, 3945-3953.	1.0	50

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19	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> , 2001, 183, 490-499.	1.0	47
20	Synthesis and Evaluation of New Antagonists of Bacterial Quorum Sensing in <i>Vibrio harveyi</i> . <i>ChemMedChem</i> , 2009, 4, 1457-1468.	1.6	47
21	Promoter Recognition and Activation by the Global Response Regulator CbrB in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2011, 193, 2784-2792.	1.0	47
22	Amino Acid-Mediated Induction of the Basic Amino Acid-Specific Outer Membrane Porin OprD from <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 1999, 181, 5426-5432.	1.0	47
23	Identification of boronic acids as antagonists of bacterial quorum sensing in <i>Vibrio harveyi</i> . <i>Biochemical and Biophysical Research Communications</i> , 2008, 369, 590-594.	1.0	45
24	Functional Characterization of Seven β -Glutamylpolyamine Synthetase Genes and the <i>bauRABCD</i> Locus for Polyamine and β -Alanine Utilization in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2011, 193, 3923-3930.	1.0	44
25	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> , 2009, 191, 6211-6218.	1.0	43
26	Regulation and Characterization of the <i>dadRAX</i> Locus for α -Amino Acid Catabolism in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2011, 193, 2107-2115.	1.0	41
27	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> , 1999, 181, 1934-1938.	1.0	40
28	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> , 1988, 176, 421-429.	0.2	39
29	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> , 2002, 46, 360-366.	1.4	37
30	Regulation of the <i>dauBAR</i> operon and characterization of α -amino acid dehydrogenase <i>DauA</i> in arginine and lysine catabolism of <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , 2010, 156, 60-71.	0.7	27
31	Conformational Changes and Substrate Recognition in <i>Pseudomonas aeruginosa</i> α -Arginine Dehydrogenase. <i>Biochemistry</i> , 2010, 49, 8535-8545.	1.2	26
32	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> , 2004, 186, 3848-3854.	1.0	24
33	Cloning and Characterization of Acetohydroxyacid Synthase from <i>Bacillus stearothermophilus</i> . <i>Journal of Bacteriology</i> , 2004, 186, 570-574.	1.0	24
34	Inhibition of Quorum Sensing in <i>Vibrio harveyi</i> by Boronic Acids. <i>Chemical Biology and Drug Design</i> , 2009, 74, 51-56.	1.5	24
35	Functional characterization of the <i>dguRABC</i> locus for α -Glu and α -Gln utilization in <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , 2014, 160, 2331-2340.	0.7	24
36	Crystal Structure of the <i>Geobacillus stearothermophilus</i> Carboxylesterase Est55 and Its Activation of Prodrug CPT-11. <i>Journal of Molecular Biology</i> , 2007, 367, 212-223.	2.0	23

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37	Design, synthesis, and evaluation of efflux substrate- ⁶⁶ metal chelator conjugates as potential antimicrobial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 707-711.	1.0	23
38	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> , 2014, 446, 901-905.	1.0	23
39	Osmotic shock: A mechanosensitive channel blocker can prevent release of cytoplasmic but not periplasmic proteins. <i>FEMS Microbiology Letters</i> , 2005, 253, 295-301.	0.7	22
40	Functional Characterization of the potRABCD Operon for Spermine and Spermidine Uptake and Regulation in <i>Staphylococcus aureus</i> . <i>Current Microbiology</i> , 2014, 69, 75-81.	1.0	20
41	Molecular characterization of LhpR in control of hydroxyproline catabolism and transport in <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , 2016, 162, 1232-1242.	0.7	20
42	Characterization of an Arginine:Pyruvate Transaminase in Arginine Catabolism of <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2007, 189, 3954-3959.	1.0	18
43	<i>l</i> -Lysine Catabolism Is Controlled by <i>l</i> -Arginine and ArgR in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2010, 192, 5874-5880.	1.0	18
44	Molecular Characterization of PauR and Its Role in Control of Putrescine and Cadaverine Catabolism through the β -Glutamylase Pathway in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2013, 195, 3906-3913.	1.0	18
45	Complete sequence of the <i>Salmonella typhimurium</i> gene encoding malate dehydrogenase. <i>Gene</i> , 1993, 123, 143-144.	1.0	16
46	A PBP 2 Mutant Devoid of the Transpeptidase Domain Abolishes Spermine- ¹² -Lactam Synergy in <i>Staphylococcus aureus</i> Mu50. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 83-91.	1.4	14
47	Induction of the pho regulon and polyphosphate synthesis against spermine stress in <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2017, 104, 1037-1051.	1.2	14
48	Cloning and Characterization of the Arginine-Specific Carbamoyl-Phosphate Synthetase from <i>Bacillus stearothermophilus</i> . <i>FEBS Journal</i> , 1997, 249, 443-449.	0.2	12
49	Characterization of <i>Staphylococcus aureus</i> Responses to Spermine Stress. <i>Current Microbiology</i> , 2014, 69, 394-403.	1.0	12
50	Mechanism of pyocyanin abolishment caused by <i>mvaT mvaU</i> double knockout in <i>Pseudomonas aeruginosa</i> PAO1. <i>Virulence</i> , 2020, 11, 57-67.	1.8	12
51	Molecular characterization and regulation of operons for asparagine and aspartate uptake and utilization in <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , 2018, 164, 205-216.	0.7	12
52	The Cryptic <i>dsdA</i> Gene Encodes a Functional d-Serine Dehydratase in <i>Pseudomonas aeruginosa</i> PAO1. <i>Current Microbiology</i> , 2016, 72, 788-794.	1.0	11
53	Molecular characterization of <i>lysR-lysXE</i> , <i>gcdR-gcdHG</i> and <i>amaR-amaAB</i> operons for lysine export and catabolism: a comprehensive lysine catabolic network in <i>Pseudomonas aeruginosa</i> PAO1. <i>Microbiology (United Kingdom)</i> , 2016, 162, 876-888.	0.7	10
54	Time-Related Transcriptome Analysis of <i>B. subtilis</i> 168 During Growth with Glucose. <i>Current Microbiology</i> , 2014, 68, 12-20.	1.0	9

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55	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> , 2013, 67, 682-687.	1.0	8
56	A Novel <i>Pseudomonas aeruginosa</i> Strain with an <i>oprD</i> Mutation in Relation to a Nosocomial Respiratory Infection Outbreak in an Intensive Care Unit. <i>Journal of Clinical Microbiology</i> , 2014, 52, 4388-4390.	1.8	7
57	γ -Glutamyl Spermium Synthetase PauA2 as a Potential Target of Antibiotic Development against <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 5309-5314.	1.4	6
58	Participation of the purine repressor in control of the carbamoylphosphate synthetase operon in <i>Salmonella typhimurium</i> . <i>Molecular Microbiology</i> , 1995, 17, 981-988.	1.2	5
59	Support Vector Machine with the Fuzzy Hybrid Kernel for Protein Subcellular Localization Classification. , 0, , .		4
60	Unconventional Integration of the <i>bla</i> Gene from Plasmid pIT2 During ISlacZ/hah Transposon Mutagenesis in <i>Pseudomonas aeruginosa</i> PAO1. <i>Current Microbiology</i> , 2009, 58, 472-477.	1.0	4
61	Functional Characterization of the <i>agtABCD</i> and <i>agtSR</i> Operons for 4-Aminobutyrate and 5-Aminovalerate Uptake and Regulation in <i>Pseudomonas aeruginosa</i> PAO1. <i>Current Microbiology</i> , 2014, 68, 59-63.	1.0	4
62	Spermium 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> , 2019, 41, 43-59.	0.5	0