Yan Zhu

List of Publications by Year
in descending order

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		168829	206121
94	3,194	31	51
papers	citations	h-index	g-index

94	94	94	4261
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	O-glycosylation site prediction for Homo sapiens by combining properties and sequence features with support vector machine. Journal of Bioinformatics and Computational Biology, 2022, 20, 2150029.	0.3	3
2	Critical assessment of computational tools for prokaryotic and eukaryotic promoter prediction. Briefings in Bioinformatics, 2022, 23, .	3.2	11
3	Comparative metabolomics revealed key pathways associated with the synergistic killing of multidrug-resistant Klebsiella pneumoniae by a bacteriophage-polymyxin combination. Computational and Structural Biotechnology Journal, 2022, 20, 485-495.	1.9	12
4	Polymyxin causes cell envelope remodelling and stress responses in mcr-1-harbouring Escherichia coli. International Journal of Antimicrobial Agents, 2022, 59, 106505.	1.1	1
5	Polymyxin Induces Significant Transcriptomic Perturbations of Cellular Signalling Networks in Human Lung Epithelial Cells. Antibiotics, 2022, 11, 307.	1.5	0
6	A synthetic lipopeptide targeting top-priority multidrug-resistant Gram-negative pathogens. Nature Communications, 2022, 13, 1625.	5.8	53
7	Correlative proteomics identify the key roles of stress tolerance strategies in Acinetobacter baumannii in response to polymyxin and human macrophages. PLoS Pathogens, 2022, 18, e1010308.	2.1	6
8	Polymyxin dose tunes the evolutionary dynamics of resistance in multidrug-resistant Acinetobacter baumannii. Clinical Microbiology and Infection, 2022, 28, 1026.e1-1026.e5.	2.8	4
9	Genome-scale metabolic modeling in antimicrobial pharmacology. Engineering Microbiology, 2022, 2, 100021.	2.2	4
10	Inwardly rectifying potassium channels mediate polymyxin-induced nephrotoxicity. Cellular and Molecular Life Sciences, 2022, 79, 296.	2.4	4
11	Dissecting carbon metabolism of Yarrowia lipolytica type strain W29 using genome-scale metabolic modelling. Computational and Structural Biotechnology Journal, 2022, 20, 2503-2511.	1.9	9
12	A brief review of proteinâ€“ligand interaction prediction. Computational and Structural Biotechnology Journal, 2022, 20, 2831-2838.	1.9	18
13	Prevalence and Molecular Characteristics of Polymyxin-Resistant Pseudomonas aeruginosa in a Chinese Tertiary Teaching Hospital. Antibiotics, 2022, 11, 799.	1.5	6
14	Genomic Analysis of Mycobacterium abscessus Complex Isolates from Patients with Pulmonary Infection in China. Microbiology Spectrum, 2022, 10, .	1.2	3
15	Exogenous metabolite feeding on altering antibiotic susceptibility in Gram-negative bacteria through metabolic modulation: a review. Metabolomics, 2022, 18, .	1.4	6
16	Computational identification of eukaryotic promoters based on cascaded deep capsule neural networks. Briefings in Bioinformatics, 2021, 22, .	3.2	44
17	Longâ€term consumption of recycled cooking oil induces cell death and tissue damage. FASEB Journal, 2021, 35, e21203.	0.2	1
18	Novel antimicrobial development using genome-scale metabolic model of Gram-negative pathogens: a review. Journal of Antibiotics, 2021, 74, 95-104.	1.0	9

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19	Abnormalities in <scp>FGF</scp> family members and their roles in modulating depressionâ€related molecules. European Journal of Neuroscience, 2021, 53, 140-150.	1.2	7
20	Comparative metabolomics reveals key pathways associated with the synergistic activity of polymyxin B and rifampicin combination against multidrug-resistant Acinetobacter baumannii. Biochemical Pharmacology, 2021, 184, 114400.	2.0	16
21	Psychological Profiles of Chinese Patients With Hemodialysis During the Panic of Coronavirus Disease 2019. Frontiers in Psychiatry, 2021, 12, 616016.	1.3	11
22	Synergy of the Polymyxin-Chloramphenicol Combination against New Delhi Metallo-Î²-Lactamase-Producing Klebsiella pneumoniae Is Predominately Driven by Chloramphenicol. ACS Infectious Diseases, 2021, 7, 1584-1595.	1.8	14
23	Clinically Relevant Concentrations of Polymyxin B and Meropenem Synergistically Kill Multidrug-Resistant Pseudomonas aeruginosa and Minimize Biofilm Formation. Antibiotics, 2021, 10, 405.	1.5	7
24	Visual exploration of large metabolic models. Bioinformatics, 2021, 37, 4460-4468.	1.8	4
25	CHK Methylation Is Elevated in Colon Cancer Cells and Contributes to the Oncogenic Properties. Frontiers in Cell and Developmental Biology, 2021, 9, 708038.	1.8	3
26	Enforcing ATP hydrolysis enhanced anaerobic glycolysis and promoted solvent production in Clostridium acetobutylicum. Microbial Cell Factories, 2021, 20, 149.	1.9	10
27	Antimicrobial Peptides: An Update on Classifications and Databases. International Journal of Molecular Sciences, 2021, 22, 11691.	1.8	106
28	iLearn: an integrated platform and meta-learner for feature engineering, machine-learning analysis and modeling of DNA, RNA and protein sequence data. Briefings in Bioinformatics, 2020, 21, 1047-1057.	3.2	294
29	Polymyxin B combinations with FDA-approved non-antibiotic phenothiazine drugs targeting multi-drug resistance of Gram-negative pathogens. Computational and Structural Biotechnology Journal, 2020, 18, 2247-2258.	1.9	17
30	Genome-Scale Metabolic Modeling Reveals Metabolic Alterations of Multidrug-Resistant Acinetobacter baumannii in a Murine Bloodstream Infection Model. Microorganisms, 2020, 8, 1793.	1.6	12
31	Lipid A profiling and metabolomics analysis of paired polymyxin-susceptible and -resistant MDR Klebsiella pneumoniae clinical isolates from the same patients before and after colistin treatment. Journal of Antimicrobial Chemotherapy, 2020, 75, 2852-2863.	1.3	14
32	Metabolic Perturbations Caused by the Over-Expression of mcr-1 in Escherichia coli. Frontiers in Microbiology, 2020, 11, 588658.	1.5	7
33	Molecular dynamics simulations informed by membrane lipidomics reveal the structureâ€“interaction relationship of polymyxins with the lipid A-based outer membrane of Acinetobacter baumannii. Journal of Antimicrobial Chemotherapy, 2020, 75, 3534-3543.	1.3	25
34	Autism-associated miR-873 regulates ARID1B, SHANK3 and NRXN2 involved in neurodevelopment. Translational Psychiatry, 2020, 10, 418.	2.4	15
35	Effective Strategy Targeting Polymyxin-Resistant Gram-Negative Pathogens: Polymyxin B in Combination with the Selective Serotonin Reuptake Inhibitor Sertraline. ACS Infectious Diseases, 2020, 6, 1436-1450.	1.8	20
36	The Killing Mechanism of Teixobactin against Methicillin-Resistant Staphylococcus aureus: an Untargeted Metabolomics Study. MSystems, 2020, 5, .	1.7	33

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37	Transcriptomic responses of a New Delhi metallo-Î²-lactamase-producing Klebsiella pneumoniae isolate to the combination of polymyxin B and chloramphenicol. International Journal of Antimicrobial Agents, 2020, 56, 106061.	1.1	10
38	Polymyxins Bind to the Cell Surface of Unculturable Acinetobacter baumannii and Cause Unique Dependent Resistance. Advanced Science, 2020, 7, 2000704.	5.6	31
39	Complete genome sequence and genome-scale metabolic modelling of Acinetobacter baumannii type strain ATCC 19606. International Journal of Medical Microbiology, 2020, 310, 151412.	1.5	11
40	Inspector: a lysine succinylation predictor based on edited nearest-neighbor undersampling and adaptive synthetic oversampling. Analytical Biochemistry, 2020, 593, 113592.	1.1	40
41	Structures of cell wall arabinosyltransferases with the anti-tuberculosis drug ethambutol. Science, 2020, 368, 1211-1219.	6.0	82
42	Regulating polymyxin resistance in Gram-negative bacteria: roles of two-component systems PhoPQ and PmrAB. Future Microbiology, 2020, 15, 445-459.	1.0	51
43	Pan-transcriptomic analysis identified common differentially expressed genes ofAcinetobacter baumanniiin response to polymyxin treatments. Molecular Omics, 2020, 16, 327-338.	1.4	7
44	PRISMOID: a comprehensive 3D structure database for post-translational modifications and mutations with functional impact. Briefings in Bioinformatics, 2020, 21, 1069-1079.	3.2	38
45	Multifaceted mechanisms of colistin resistance revealed by genomic analysis of multidrug-resistant Klebsiella pneumoniae isolates from individual patients before and after colistin treatment. Journal of Infection, 2019, 79, 312-321.	1.7	24
46	Comparative Metabolomics Reveals Key Pathways Associated With the Synergistic Killing of Colistin and Sulbactam Combination Against Multidrug-Resistant Acinetobacter baumannii. Frontiers in Pharmacology, 2019, 10, 754.	1.6	21
47	Synergistic Combination of Polymyxin B and Enrofloxacin Induced Metabolic Perturbations in Extensive Drug-Resistant Pseudomonas aeruginosa. Frontiers in Pharmacology, 2019, 10, 1146.	1.6	17
48	Metabolomics Study of the Synergistic Killing of Polymyxin B in Combination with Amikacin against Polymyxin-Susceptible and -Resistant Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2019, 64, .	1.4	28
49	Novel Polymyxin Combination with the Antiretroviral Zidovudine Exerts Synergistic Killing against NDM-Producing Multidrug-Resistant Klebsiella pneumoniae. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	16
50	Potential serum biomarkers for the prediction of the efficacy of escitalopram for treating depression. Journal of Affective Disorders, 2019, 250, 307-312.	2.0	14
51	Placental malperfusion in response to intrauterine inflammation and its connection to fetal sequelae. PLoS ONE, 2019, 14, e0214951.	1.1	32
52	Maternal Supplementation of Low Dose Fluoride Alleviates Adverse Perinatal Outcomes Following Exposure to Intrauterine Inflammation. Scientific Reports, 2019, 9, 2575.	1.6	13
53	Metabolic Responses to Polymyxin Treatment in Acinetobacter baumannii ATCC 19606: Integrating Transcriptomics and Metabolomics with Genome-Scale Metabolic Modeling. MSystems, 2019, 4, .	1.7	28
54	Comparative Metabolomics and Transcriptomics Reveal Multiple Pathways Associated with Polymyxin Killing in Pseudomonas aeruginosa. MSystems, 2019, 4, .	1.7	52

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55	Polymyxin B in Combination with Enrofloxacin Exerts Synergistic Killing against Extensively Drug-Resistant Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2018, 62, .	1.4	15
56	Alterations of Metabolic and Lipid Profiles in Polymyxin-Resistant Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2018, 62, .	1.4	58
57	Dysregulation and Dislocation of SFPQ Disturbed DNA Organization in Alzheimerâ€™s Disease and Frontotemporal Dementia. Journal of Alzheimer's Disease, 2018, 61, 1311-1321.	1.2	24
58	Comparative analysis of phosphoethanolamine transferases involved in polymyxin resistance across 10 clinically relevant Gram-negative bacteria. International Journal of Antimicrobial Agents, 2018, 51, 586-593.	1.1	18
59	Genome-scale metabolic modeling of responses to polymyxins inPseudomonas aeruginosa. GigaScience, 2018, 7, .	3.3	44
60	Polymyxin-Induced Lipid A Deacylation in Pseudomonas aeruginosa Perturbs Polymyxin Penetration and Confers High-Level Resistance. ACS Chemical Biology, 2018, 13, 121-130.	1.6	59
61	Metabolic Analyses Revealed Time-Dependent Synergistic Killing by Colistin and Aztreonam Combination Against Multidrug-Resistant Acinetobacter baumannii. Frontiers in Microbiology, 2018, 9, 2776.	1.5	20
62	Mechanistic Insights From Global Metabolomics Studies into Synergistic Bactericidal Effect of a Polymyxin B Combination With Tamoxifen Against Cystic Fibrosis MDR Pseudomonas aeruginosa. Computational and Structural Biotechnology Journal, 2018, 16, 587-599.	1.9	19
63	A Comparative Study of Outer Membrane Proteome between Paired Colistin-Susceptible and Extremely Colistin-Resistant Klebsiella pneumoniae Strains. ACS Infectious Diseases, 2018, 4, 1692-1704.	1.8	15
64	Enhanced uptake of potassium or glycine betaine or export of cyclic-di-AMP restores osmoresistance in a high cyclic-di-AMP Lactococcus lactis mutant. PLoS Genetics, 2018, 14, e1007574.	1.5	61
65	Lipidomic Analysis of the Outer Membrane Vesicles from Paired Polymyxin-Susceptible and -Resistant Klebsiella pneumoniae Clinical Isolates. International Journal of Molecular Sciences, 2018, 19, 2356.	1.8	23
66	Functional Characterization of the Unique Terminal Thioesterase Domain from Polymyxin Synthetase. Biochemistry, 2017, 56, 657-668.	1.2	8
67	Plasma Protein Binding Structureâ€“Activity Relationships Related to the N-Terminus of Daptomycin. ACS Infectious Diseases, 2017, 3, 249-258.	1.8	20
68	Characterization of the Polymyxin D Synthetase Biosynthetic Cluster and Product Profile of Paenibacillus polymyxa ATCC 10401. Journal of Natural Products, 2017, 80, 1264-1274.	1.5	27
69	Interleukin-10 inhibits neuroinflammation-mediated apoptosis of ventral mesencephalic neurons via JAK-STAT3 pathway. International Immunopharmacology, 2017, 50, 353-360.	1.7	35
70	Investigating the Interaction of Octapeptin A3 with Model Bacterial Membranes. ACS Infectious Diseases, 2017, 3, 606-619.	1.8	25
71	Study of mcr-1 Gene-Mediated Colistin Resistance in Enterobacteriaceae Isolated from Humans and Animals in Different Countries. Genes, 2017, 8, 394.	1.0	57
72	Toward Community Standards and Software for Whole-Cell Modeling. IEEE Transactions on Biomedical Engineering, 2016, 63, 2007-2014.	2.5	51

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73	Polymyxin Resistance in Acinetobacter baumannii: Genetic Mutations and Transcriptomic Changes in Response to Clinically Relevant Dosage Regimens. Scientific Reports, 2016, 6, 26233.	1.6	82
74	Cyclicâ€diâ€‹scp›AMP‹/scp› synthesis by the diadenylate cyclase ‹scp›CdaA‹/scp› is modulated by the peptidoglycan biosynthesis enzyme ‹scp›GlmM‹/scp› in ‹scp›‹i›L‹/i›‹/scp›‹i›actococcus lactis‹/i›. Molecular Microbiology, 2016, 99, 1015-1027.	1.2	61
75	Bioactive sesquiterpene quinols and quinones from the marine sponge Dysidea avara. RSC Advances, 2015, 5, 87730-87738.	1.7	15
76	Comparative genomic and proteomic analyses of Clostridium acetobutylicum Rh8 and its parent strain DSM 1731 revealed new understandings on butanol tolerance. Biochemical and Biophysical Research Communications, 2014, 450, 1612-1618.	1.0	12
77	Metabolic Changes in Klebsiella oxytoca in Response to Low Oxidoreduction Potential, as Revealed by Comparative Proteomic Profiling Integrated with Flux Balance Analysis. Applied and Environmental Microbiology, 2014, 80, 2833-2841.	1.4	14
78	Discovery of a super-strong promoter enables efficient production of heterologous proteins in cyanobacteria. Scientific Reports, 2014, 4, 4500.	1.6	112
79	Discovery of a novel gene involved in autolysis of‹i›Clostridium‹/i›cells. Protein and Cell, 2013, 4, 467-474.	4.8	5
80	Development of thermodynamic optimum searching (TOS) to improve the prediction accuracy of flux balance analysis. Biotechnology and Bioengineering, 2013, 110, 914-923.	1.7	12
81	Engineering the robustness of industrial microbes through synthetic biology. Trends in Microbiology, 2012, 20, 94-101.	3.5	65
82	Introducing a single secondary alcohol dehydrogenase into butanol-tolerant Clostridium acetobutylicum Rh8 switches ABE fermentation to high level IBE fermentation. Biotechnology for Biofuels, 2012, 5, 44.	6.2	63
83	Controlling the oxidoreduction potential of the culture of Clostridium acetobutylicum leads to an earlier initiation of solventogenesis, thus increasing solvent productivity. Applied Microbiology and Biotechnology, 2012, 93, 1021-1030.	1.7	53
84	Complete Genome Sequence of Clostridium acetobutylicum DSM 1731, a Solvent-Producing Strain with Multireplicon Genome Architecture. Journal of Bacteriology, 2011, 193, 5007-5008.	1.0	43
85	Formic Acid Triggers the â€œAcid Crashâ€•of Acetone-Butanol-Ethanol Fermentation by ‹i›Clostridium acetobutylicum‹/i›. Applied and Environmental Microbiology, 2011, 77, 1674-1680.	1.4	108
86	Group II Intron-Anchored Gene Deletion in Clostridium. PLoS ONE, 2011, 6, e16693.	1.1	24
87	Proteomic Analyses To Reveal the Protective Role of Glutathione in Resistance of ‹i›Lactococcus lactis‹/i› to Osmotic Stress. Applied and Environmental Microbiology, 2010, 76, 3177-3186.	1.4	63
88	Proteome Reference Map and Comparative Proteomic Analysis between a Wild Type‹i›Clostridium acetobutylicum‹/i›DSM 1731 and its Mutant with Enhanced Butanol Tolerance and Butanol Yield. Journal of Proteome Research, 2010, 9, 3046-3061.	1.8	119
89	The importance of engineering physiological functionality into microbes. Trends in Biotechnology, 2009, 27, 664-672.	4.9	63
90	Understanding the industrial application potential of lactic acid bacteria through genomics. Applied Microbiology and Biotechnology, 2009, 83, 597-610.	1.7	47

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91	The HAMP Linker in Histidine Kinase Dimeric Receptors Is Critical for Symmetric Transmembrane Signal Transduction. Journal of Biological Chemistry, 2004, 279, 48152-48158.	1.6	19
92	Analysis of the Role of the EnvZ Linker Region in Signal Transduction Using a Chimeric Tar/EnvZ Receptor Protein, Tez1. Journal of Biological Chemistry, 2003, 278, 22812-22819.	1.6	38
93	The role of the G2 box, a conserved motif in the histidine kinase superfamily, in modulating the function of EnvZ. Molecular Microbiology, 2002, 45, 653-663.	1.2	45
94	Solution structure of the homodimeric core domain of Escherichia coli histidine kinase EnvZ. Nature Structural Biology, 1999, 6, 729-734.	9.7	228