

Aixin Yan

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,323
citations

257101

24
h-index

223531

46
g-index

50
all docs

50
docs citations

50
times ranked

3470
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial multidrug efflux pumps: Mechanisms, physiology and pharmacological exploitations. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 254-267.	1.0	591
2	Unraveling the Mechanism of Protein N-Glycosylation. <i>Journal of Biological Chemistry</i> , 2005, 280, 3121-3124.	1.6	172
3	An Undecaprenyl Phosphate-Aminoarabinose Flippase Required for Polymyxin Resistance in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 36077-36089.	1.6	138
4	Biofilms in Endodontics—Current Status and Future Directions. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1748.	1.8	137
5	Copper Efflux Is Induced during Anaerobic Amino Acid Limitation in <i>Escherichia coli</i> To Protect Iron-Sulfur Cluster Enzymes and Biogenesis. <i>Journal of Bacteriology</i> , 2013, 195, 4556-4568.	1.0	92
6	Multi-target mode of action of silver against <i>Staphylococcus aureus</i> endows it with capability to combat antibiotic resistance. <i>Nature Communications</i> , 2021, 12, 3331.	5.8	80
7	The Multidrug Efflux Pump MdtEF Protects against Nitrosative Damage during the Anaerobic Respiration in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 26576-26584.	1.6	77
8	Kdo ₂ —Lipid A: structural diversity and impact on immunopharmacology. <i>Biological Reviews</i> , 2015, 90, 408-427.	4.7	73
9	Resensitizing carbapenem- and colistin-resistant bacteria to antibiotics using auranofin. <i>Nature Communications</i> , 2020, 11, 5263.	5.8	70
10	Deciphering molecular mechanism of silver by integrated omic approaches enables enhancing its antimicrobial efficacy in <i>E. coli</i> . <i>PLoS Biology</i> , 2019, 17, e3000292.	2.6	66
11	Subunits of the Translocon Interact with Components of the Oligosaccharyl Transferase Complex. <i>Journal of Biological Chemistry</i> , 2005, 280, 22917-22924.	1.6	58
12	Two oligosaccharyl transferase complexes exist in yeast and associate with two different translocons. <i>Glycobiology</i> , 2005, 15, 1407-1415.	1.3	58
13	Zinc excess increases cellular demand for iron and decreases tolerance to copper in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 16978-16991.	1.6	58
14	Anaerobic expression of the gadE-mdtEF multidrug efflux operon is primarily regulated by the two-component system ArcBA through antagonizing the H-NS mediated repression. <i>Frontiers in Microbiology</i> , 2013, 4, 194.	1.5	56
15	Native CRISPR-Cas-Mediated Genome Editing Enables Dissecting and Sensitizing Clinical Multidrug-Resistant <i>P. Aeruginosa</i> . <i>Cell Reports</i> , 2019, 29, 1707-1717.e3.	2.9	51
16	Transcriptional Regulation of the Outer Membrane Porin Gene ompW Reveals its Physiological Role during the Transition from the Aerobic to the Anaerobic Lifestyle of <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 799.	1.5	44
17	Antimicrobial silver targets glyceraldehyde-3-phosphate dehydrogenase in glycolysis of <i>E. coli</i> . <i>Chemical Science</i> , 2019, 10, 7193-7199.	3.7	42
18	Metabolic Labeling of Pseudaminic Acid-Containing Glycans on Bacterial Surfaces. <i>ACS Chemical Biology</i> , 2018, 13, 3030-3037.	1.6	41

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19	Rapid Identification of Bacteria by Membrane-Responsive Aggregation of a Pyrene Derivative. ACS Sensors, 2019, 4, 281-285.	4.0	36
20	Studies of yeast oligosaccharyl transferase subunits using the split-ubiquitin system: Topological features and in vivo interactions. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7121-7126.	3.3	34
21	Comparative genome and transcriptome analysis reveals distinctive surface characteristics and unique physiological potentials of <i>Pseudomonas aeruginosa</i> ATCC 27853. BMC Genomics, 2017, 18, 459.	1.2	33
22	New Findings on Interactions among the Yeast Oligosaccharyl Transferase Subunits Using a Chemical Cross-linker. Journal of Biological Chemistry, 2003, 278, 33078-33087.	1.6	29
23	Structures and biofilm inhibition activities of brominated furanones for <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i> . MedChemComm, 2013, 4, 1079.	3.5	25
24	Elastic, Conductive, and Mechanically Strong Hydrogels from Dual-Cross-Linked Aramid Nanofiber Composites. ACS Applied Materials & Interfaces, 2021, 13, 7539-7545.	4.0	25
25	Harnessing the type I <i>CRISPR-Cas</i> systems for genome editing in prokaryotes. Environmental Microbiology, 2021, 23, 542-558.	1.8	23
26	Toward a Metagenomic Understanding on the Bacterial Composition and Resistome in Hong Kong Banknotes. Frontiers in Microbiology, 2017, 8, 632.	1.5	21
27	A transferrable and integrative type I-F Cascade for heterologous genome editing and transcription modulation. Nucleic Acids Research, 2021, 49, e94-e94.	6.5	19
28	Proteomic Delineation of the ArcA Regulon in <i>Salmonella Typhimurium</i> During Anaerobiosis. Molecular and Cellular Proteomics, 2018, 17, 1937-1947.	2.5	17
29	Uncoupled Quorum Sensing Modulates the Interplay of Virulence and Resistance in a Multidrug-Resistant Clinical <i>Pseudomonas aeruginosa</i> Isolate Belonging to the MLST550 Clonal Complex. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	17
30	Chapter 42 Techniques to Isolate O ₂ -Sensitive Proteins. Methods in Enzymology, 2009, 463, 787-805.	0.4	16
31	Population differentiation of Rhodobacteraceae along with coral compartments. ISME Journal, 2021, 15, 3286-3302.	4.4	16
32	Atomic differentiation of silver binding preference in protein targets: <i>Escherichia coli</i> malate dehydrogenase as a paradigm. Chemical Science, 2020, 11, 11714-11719.	3.7	14
33	Covalently linking the <i>Escherichia coli</i> global anaerobic regulator FNR in tandem allows it to function as an oxygen stable dimer. Biochemical and Biophysical Research Communications, 2012, 419, 43-48.	1.0	13
34	Signaling by the heavy-metal sensor CusS involves rearranged helical interactions in specific transmembrane regions. Molecular Microbiology, 2016, 100, 774-787.	1.2	13
35	Cryptic speciation of a pelagic <i>Roseobacter</i> population varying at a few thousand nucleotide sites. ISME Journal, 2020, 14, 3106-3119.	4.4	11
36	Microbiome assembly for sulfonamide subsistence and the transfer of genetic determinants. ISME Journal, 2021, 15, 2817-2829.	4.4	10

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37	Multidrug Efflux Systems in Microaerobic and Anaerobic Bacteria. <i>Antibiotics</i> , 2015, 4, 379-396.	1.5	9
38	Repurposing the Native Type I-F CRISPR-Cas System in <i>Pseudomonas aeruginosa</i> for Genome Editing. <i>STAR Protocols</i> , 2020, 1, 100039.	0.5	9
39	Proteomic Analysis of FNR-Regulated Anaerobiosis in <i>Salmonella</i> Typhimurium. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1001-1012.	1.2	8
40	Dissecting the Role of the N-Terminal Region of the <i>Escherichia coli</i> Global Transcription Factor FNR. <i>Journal of Bacteriology</i> , 2008, 190, 8230-8233.	1.0	6
41	Detection of synergistic antimicrobial resistance mechanisms in clinical isolates of <i>Pseudomonas aeruginosa</i> from post-operative wound infections. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 9321-9332.	1.7	3
42	A novel regulatory circuit to control indole biosynthesis protects <i>Escherichia coli</i> from nitrosative damages during the anaerobic respiration of nitrate. <i>Environmental Microbiology</i> , 2017, 19, 598-610.	1.8	2
43	Study of the Expression of Bacterial Multidrug Efflux Pumps in Anaerobic Conditions. <i>Methods in Molecular Biology</i> , 2018, 1700, 253-268.	0.4	2
44	Whole-cell FRET monitoring of transcription factor activities enables functional annotation of signal transduction systems in living bacteria. <i>Journal of Biological Chemistry</i> , 2022, 298, 102258.	1.6	1