Aixin Yan

List of Publications by Year
in descending order

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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	Whole-cell FRET monitoring of transcription factor activities enables functional annotation of signal transduction systems in living bacteria. Journal of Biological Chemistry, 2022, 298, 102258.	1.6	1
2	Harnessing the type I <scp>CRISPRâ€Cas</scp> systems for genome editing in prokaryotes. Environmental Microbiology, 2021, 23, 542-558.	1.8	23
3	Elastic, Conductive, and Mechanically Strong Hydrogels from Dual-Cross-Linked Aramid Nanofiber Composites. ACS Applied Materials & Interfaces, 2021, 13, 7539-7545.	4.0	25
4	Microbiome assembly for sulfonamide subsistence and the transfer of genetic determinants. ISME Journal, 2021, 15, 2817-2829.	4.4	10
5	Population differentiation of Rhodobacteraceae along with coral compartments. ISME Journal, 2021, 15, 3286-3302.	4.4	16
6	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
7	Multi-target mode of action of silver against Staphylococcus aureus endows it with capability to combat antibiotic resistance. Nature Communications, 2021, 12, 3331.	5.8	80
8	Detection of synergistic antimicrobial resistance mechanisms in clinical isolates of Pseudomonas aeruginosa from post-operative wound infections. Applied Microbiology and Biotechnology, 2021, 105, 9321-9332.	1.7	3
9	Resensitizing carbapenem- and colistin-resistant bacteria to antibiotics using auranofin. Nature Communications, 2020, 11, 5263.	5.8	70
10	Repurposing the Native Type I-F CRISPR-Cas System in Pseudomonas aeruginosa for Genome Editing. STAR Protocols, 2020, 1, 100039.	0.5	9
11	Atomic differentiation of silver binding preference in protein targets:Escherichia colimalate dehydrogenase as a paradigm. Chemical Science, 2020, 11, 11714-11719.	3.7	14
12	Cryptic speciation of a pelagic Roseobacter population varying at a few thousand nucleotide sites. ISME Journal, 2020, 14, 3106-3119.	4.4	11
13	Native CRISPR-Cas-Mediated Genome Editing Enables Dissecting and Sensitizing Clinical Multidrug-Resistant P.Âaeruginosa. Cell Reports, 2019, 29, 1707-1717.e3.	2.9	51
14	Zinc excess increases cellular demand for iron and decreases tolerance to copper in Escherichia coli. Journal of Biological Chemistry, 2019, 294, 16978-16991.	1.6	58
15	Uncoupled Quorum Sensing Modulates the Interplay of Virulence and Resistance in a Multidrug-Resistant Clinical Pseudomonas aeruginosa Isolate Belonging to the MLST550 Clonal Complex. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	17
16	Rapid Identification of Bacteria by Membrane-Responsive Aggregation of a Pyrene Derivative. ACS Sensors, 2019, 4, 281-285.	4.0	36
17	Antimicrobial silver targets glyceraldehyde-3-phosphate dehydrogenase in glycolysis of E. coli. Chemical Science, 2019, 10, 7193-7199.	3.7	42
18	Deciphering molecular mechanism of silver by integrated omic approaches enables enhancing its antimicrobial efficacy in E. coli. PLoS Biology, 2019, 17, e3000292.	2.6	66

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19	Proteomic Analysis of FNR-Regulated Anaerobiosis in Salmonella Typhimurium. Journal of the American Society for Mass Spectrometry, 2019, 30, 1001-1012.	1.2	8
20	Study of the Expression of Bacterial Multidrug Efflux Pumps in Anaerobic Conditions. Methods in Molecular Biology, 2018, 1700, 253-268.	0.4	2
21	Metabolic Labeling of Pseudaminic Acid-Containing Glycans on Bacterial Surfaces. ACS Chemical Biology, 2018, 13, 3030-3037.	1.6	41
22	Proteomic Delineation of the ArcA Regulon in Salmonella Typhimurium During Anaerobiosis. Molecular and Cellular Proteomics, 2018, 17, 1937-1947.	2.5	17
23	Comparative genome and transcriptome analysis reveals distinctive surface characteristics and unique physiological potentials of Pseudomonas aeruginosa ATCC 27853. BMC Genomics, 2017, 18, 459.	1.2	33
24	A novel regulatory circuit to control indole biosynthesis protects Escherichia coli from nitrosative damages during the anaerobic respiration of nitrate. Environmental Microbiology, 2017, 19, 598-610.	1.8	2
25	Biofilms in Endodonticsâ€"Current Status and Future Directions. International Journal of Molecular Sciences, 2017, 18, 1748.	1.8	137
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	Transcriptional Regulation of the Outer Membrane Porin Gene ompW Reveals its Physiological Role during the Transition from the Aerobic to the Anaerobic Lifestyle of Escherichia coli. Frontiers in Microbiology, 2016, 7, 799.	1.5	44
28	Signaling by the heavyâ€metal sensor CusS involves rearranged helical interactions in specific transmembrane regions. Molecular Microbiology, 2016, 100, 774-787.	1.2	13
29	Multidrug Efflux Systems in Microaerobic and Anaerobic Bacteria. Antibiotics, 2015, 4, 379-396.	1.5	9
30	Kdo₂â€lipid A: structural diversity and impact on immunopharmacology. Biological Reviews, 2015, 90, 408-427.	4.7	73
31	Bacterial multidrug efflux pumps: Mechanisms, physiology and pharmacological exploitations. Biochemical and Biophysical Research Communications, 2014, 453, 254-267.	1.0	591
32	Structures and biofilm inhibition activities of brominated furanones for Escherichia coli and Pseudomonas aeruginosa. MedChemComm, 2013, 4, 1079.	3.5	25
33	Copper Efflux Is Induced during Anaerobic Amino Acid Limitation in Escherichia coli To Protect Iron-Sulfur Cluster Enzymes and Biogenesis. Journal of Bacteriology, 2013, 195, 4556-4568.	1.0	92
34	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. Frontiers in Microbiology, 2013, 4, 194.	1.5	56
35	Covalently linking the Escherichia coli 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
36	The Multidrug Efflux Pump MdtEF Protects against Nitrosative Damage during the Anaerobic Respiration in Escherichia coli. Journal of Biological Chemistry, 2011, 286, 26576-26584.	1.6	77

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37	Chapter 42 Techniques to Isolate O2-Sensitive Proteins. Methods in Enzymology, 2009, 463, 787-805.	0.4	16
38	Dissecting the Role of the N-Terminal Region of the Escherichia coli Global Transcription Factor FNR. Journal of Bacteriology, 2008, 190, 8230-8233.	1.0	6
39	An Undecaprenyl Phosphate-Aminoarabinose Flippase Required for Polymyxin Resistance in Escherichia coli. Journal of Biological Chemistry, 2007, 282, 36077-36089.	1.6	138
40	Subunits of the Translocon Interact with Components of the Oligosaccharyl Transferase Complex. Journal of Biological Chemistry, 2005, 280, 22917-22924.	1.6	58
41	Two oligosaccharyl transferase complexes exist in yeast and associate with two different translocons. Glycobiology, 2005, 15, 1407-1415.	1.3	58
42	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
43	Unraveling the Mechanism of Protein N-Glycosylation. Journal of Biological Chemistry, 2005, 280, 3121-3124.	1.6	172
44	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