

Yan Chen

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,752
citations

394421

19
h-index

315739

38
g-index

51
all docs

51
docs citations

51
times ranked

2493
citing authors

#	ARTICLE	IF	CITATIONS
1	Complete biosynthesis of cannabinoids and their unnatural analogues in yeast. <i>Nature</i> , 2019, 567, 123-126.	27.8	473
2	Viscous control of cellular respiration by membrane lipid composition. <i>Science</i> , 2018, 362, 1186-1189.	12.6	167
3	Lessons from Two Designâ€œBuildâ€œTestâ€œLearn Cycles of Dodecanol Production in <i>Escherichia coli</i> Aided by Machine Learning. <i>ACS Synthetic Biology</i> , 2019, 8, 1337-1351.	3.8	107
4	The bacterial septal ring protein <i>RlpA</i> is a lytic transglycosylase that contributes to rod shape and daughter cell separation in <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2014, 93, 113-128.	2.5	95
5	Functional genetics of human gut commensal <i>Bacteroides thetaiotaomicron</i> reveals metabolic requirements for growth across environments. <i>Cell Reports</i> , 2021, 34, 108789.	6.4	82
6	Genome-scale metabolic rewiring improves titers rates and yields of the non-native product indigoidine at scale. <i>Nature Communications</i> , 2020, 11, 5385.	12.8	67
7	Biosynthesis and secretion of the microbial sulfated peptide RaxX and binding to the rice XA21 immune receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8525-8534.	7.1	64
8	<i>Clostridium difficile</i> Extracytoplasmic Function Ĩf Factor Ĩ ^V Regulates Lysozyme Resistance and Is Necessary for Pathogenesis in the Hamster Model of Infection. <i>Infection and Immunity</i> , 2014, 82, 2345-2355.	2.2	59
9	Engineering <i>Corynebacterium glutamicum</i> to produce the biogasoline isopentenol from plant biomass hydrolysates. <i>Biotechnology for Biofuels</i> , 2019, 12, 41.	6.2	51
10	Renewable production of high density jet fuel precursor sesquiterpenes from <i>Escherichia coli</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 285.	6.2	43
11	Systems and synthetic biology tools for advanced bioproduction hosts. <i>Current Opinion in Biotechnology</i> , 2020, 64, 101-109.	6.6	38
12	Restoration of biofuel production levels and increased tolerance under ionic liquid stress is enabled by a mutation in the essential <i>Escherichia coli</i> gene <i>cydC</i> . <i>Microbial Cell Factories</i> , 2018, 17, 159.	4.0	33
13	Automated â€œCells-To-Peptidesâ€œ Sample Preparation Workflow for High-Throughput, Quantitative Proteomic Assays of Microbes. <i>Journal of Proteome Research</i> , 2019, 18, 3752-3761.	3.7	32
14	In vivo induced RTX toxin ApxIVA is essential for the full virulence of <i>Actinobacillus pleuropneumoniae</i> . <i>Veterinary Microbiology</i> , 2009, 137, 282-289.	1.9	31
15	Defining the proteome of human iris, ciliary body, retinal pigment epithelium, and choroid. <i>Proteomics</i> , 2016, 16, 1146-1153.	2.2	30
16	Methyl ketone production by <i>Pseudomonas putida</i> is enhanced by plantâ€œderived amino acids. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1909-1922.	3.3	29
17	Levels of Germination Proteins in <i>Bacillus subtilis</i> Dormant, Superdormant, and Germinating Spores. <i>PLoS ONE</i> , 2014, 9, e95781.	2.5	26
18	Omics-driven identification and elimination of valerolactam catabolism in <i>Pseudomonas putida</i> KT2440 for increased product titer. <i>Metabolic Engineering Communications</i> , 2019, 9, e00098.	3.6	25

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19	Investigation of Indigoidine Synthetase Reveals a Conserved Active-Site Base Residue of Nonribosomal Peptide Synthetase Oxidases. <i>Journal of the American Chemical Society</i> , 2020, 142, 10931-10935.	13.7	23
20	Response of <i>Pseudomonas putida</i> to Complex, Aromatic-Rich Fractions from Biomass. <i>ChemSusChem</i> , 2020, 13, 4455-4467.	6.8	23
21	HtrC Is Involved in Proteolysis of YpeB during Germination of <i>Bacillus anthracis</i> and <i>Bacillus subtilis</i> Spores. <i>Journal of Bacteriology</i> , 2015, 197, 326-336.	2.2	22
22	Comparative ultrafast spectroscopy and structural analysis of OCP1 and OCP2 from <i>Tolypothrix</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148120.	1.0	22
23	The key virulence-associated genes of <i>Streptococcus suis</i> type 2 are upregulated and differentially expressed in vivo. <i>FEMS Microbiology Letters</i> , 2008, 278, 108-114.	1.8	20
24	Structural analysis of a new carotenoid-binding protein: the C-terminal domain homolog of the OCP. <i>Scientific Reports</i> , 2020, 10, 15564.	3.3	18
25	A rapid methods development workflow for high-throughput quantitative proteomic applications. <i>PLoS ONE</i> , 2019, 14, e0211582.	2.5	17
26	Improving methyl ketone production in <i>Escherichia coli</i> by heterologous expression of NADH-dependent FabG. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1161-1172.	3.3	15
27	Potential use an <i>Actinobacillus pleuropneumoniae</i> double mutant strain $\hat{\Delta}$ apxIIIC $\hat{\Delta}$ apxIVA as live vaccine that allows serological differentiation between vaccinated and infected animals. <i>Vaccine</i> , 2007, 25, 7696-7705.	3.8	13
28	Chemoinformatic-Guided Engineering of Polyketide Synthases. <i>Journal of the American Chemical Society</i> , 2020, 142, 9896-9901.	13.7	13
29	Heterologous Gene Expression of N-Terminally Truncated Variants of LipPks1 Suggests a Functionally Critical Structural Motif in the N-terminus of Modular Polyketide Synthase. <i>ACS Chemical Biology</i> , 2017, 12, 2725-2729.	3.4	12
30	Membrane Proteomes and Ion Transporters in <i>Bacillus anthracis</i> and <i>Bacillus subtilis</i> Dormant and Germinating Spores. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	11
31	Production of tetra-methylpyrazine using engineered <i>Corynebacterium glutamicum</i> . <i>Metabolic Engineering Communications</i> , 2020, 10, e00115.	3.6	9
32	Structural Mechanism of Regioselectivity in an Unusual Bacterial Acyl-CoA Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2020, 142, 835-846.	13.7	9
33	Allosteric Priming of <i>E. coli</i> CheY by the Flagellar Motor Protein FliM. <i>Biophysical Journal</i> , 2020, 119, 1108-1122.	0.5	9
34	A multiplexed nanostructure-initiator mass spectrometry (NIMS) assay for simultaneously detecting glycosyl hydrolase and lignin modifying enzyme activities. <i>Scientific Reports</i> , 2021, 11, 11803.	3.3	7
35	Hydroxyl radical mediated damage of proteins in low oxygen solution investigated using X-ray footprinting mass spectrometry. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1333-1342.	2.4	6
36	Development of Container Free Sample Exposure for Synchrotron X-ray Footprinting. <i>Analytical Chemistry</i> , 2020, 92, 1565-1573.	6.5	5

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37	Systems Analysis of NADH Dehydrogenase Mutants Reveals Flexibility and Limits of <i>Pseudomonas taiwanensis</i> VLB120's Metabolism. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	4
38	Adaptive evolution of <i>Methylovulum alcaliphilum</i> to grow in the presence of rhamnolipids improves fatty acid and rhamnolipid production from CH ₄ . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2022, 49, .	3.0	4
39	Cloning, expression, and characterization of TonB2 from <i>Actinobacillus pleuropneumoniae</i> and potential use as an antigenic vaccine candidate and diagnostic marker. <i>Canadian Journal of Veterinary Research</i> , 2011, 75, 183-90.	0.2	3
40	Modular automated bottom-up proteomic sample preparation for high-throughput applications. <i>PLoS ONE</i> , 2022, 17, e0264467.	2.5	3
41	Structure of an affinity-matured inhibitory recombinant fab against urokinase plasminogen activator reveals basis of potency and specificity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2021, 1869, 140562.	2.3	1