

Curt R Fischer

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,937
citations

361045

20
h-index

414034

32
g-index

35
all docs

35
docs citations

35
times ranked

3852
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning genetic control through promoter engineering. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12678-12683.	3.3	775
2	Selection and optimization of microbial hosts for biofuels production. Metabolic Engineering, 2008, 10, 295-304.	3.6	343
3	Engineering of Promoter Replacement Cassettes for Fine-Tuning of Gene Expression in <i>Saccharomyces cerevisiae</i> . Applied and Environmental Microbiology, 2006, 72, 5266-5273.	1.4	200
4	A metabolomics pipeline for the mechanistic interrogation of the gut microbiome. Nature, 2021, 595, 415-420.	13.7	198
5	<i>N</i> -hydroxy-pipecolic acid is a mobile metabolite that induces systemic disease resistance in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4920-E4929.	3.3	187
6	Coevolution of Bacteriophage PP01 and <i>Escherichia coli</i> O157:H7 in Continuous Culture. Applied and Environmental Microbiology, 2003, 69, 170-176.	1.4	173
7	HEx: A heterologous expression platform for the discovery of fungal natural products. Science Advances, 2018, 4, eaar5459.	4.7	167
8	Depletion of microbiome-derived molecules in the host using <i>Clostridium</i> genetics. Science, 2019, 366, .	6.0	103
9	A Pathogen-Responsive Gene Cluster for Highly Modified Fatty Acids in Tomato. Cell, 2020, 180, 176-187.e19.	13.5	94
10	A Metabolic Pathway for Activation of Dietary Glucosinolates by a Human Gut Symbiont. Cell, 2020, 180, 717-728.e19.	13.5	84
11	Engineering promoter regulation. Biotechnology and Bioengineering, 2007, 96, 550-558.	1.7	67
12	High-throughput platforms for metabolomics. Current Opinion in Chemical Biology, 2016, 30, 7-13.	2.8	60
13	CRISPR-Cas9 screens identify regulators of antibody-drug conjugate toxicity. Nature Chemical Biology, 2019, 15, 949-958.	3.9	56
14	Analysis of polyhydroxybutyrate flux limitations by systematic genetic and metabolic perturbations. Metabolic Engineering, 2010, 12, 187-195.	3.6	52
15	The coexistence of <i>Escherichia coli</i> serotype O157:H7 and its specific bacteriophage in continuous culture. FEMS Microbiology Letters, 2004, 241, 171-177.	0.7	51
16	Assessment of heterologous butyrate and butanol pathway activity by measurement of intracellular pathway intermediates in recombinant <i>Escherichia coli</i> . Applied Microbiology and Biotechnology, 2010, 88, 265-275.	1.7	36
17	Stable-Isotope Probing Reveals That Hydrogen Isotope Fractionation in Proteins and Lipids in a Microbial Community Are Different and Species-Specific. ACS Chemical Biology, 2013, 8, 1755-1763.	1.6	30
18	Oxidative ornithine metabolism supports non-inflammatory <i>C. difficile</i> colonization. Nature Metabolism, 2022, 4, 19-28.	5.1	28

#	ARTICLE	IF	CITATIONS
19	Complete Reconstitution and Deorphanization of the 3 MDa Nocardiosis-Associated Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2020, 142, 5952-5957.	6.6	27
20	Identifying Functionally Important Mutations from Phenotypically Diverse Sequence Data. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3696-3701.	1.4	23
21	Enhancing the Antiviral Efficacy of RNA-Dependent RNA Polymerase Inhibition by Combination with Modulators of Pyrimidine Metabolism. <i>Cell Chemical Biology</i> , 2020, 27, 668-677.e9.	2.5	23
22	Amino acid alterations in Gp38 of host range mutants of PP01 and evidence for their infection of anompCnull mutant of <i>Escherichia coli</i> O157:H7. <i>FEMS Microbiology Letters</i> , 2002, 216, 243-248.	0.7	22
23	Thioesterase-Catalyzed Aminoacylation and Thiolation of Polyketides in Fungi. <i>Journal of the American Chemical Society</i> , 2019, 141, 8198-8206.	6.6	20
24	The criterion for selecting effective phage for <i>Escherichia coli</i> O157:H7 control. <i>Biochemical Engineering Journal</i> , 2004, 19, 221-227.	1.8	18
25	Production of C ₃ Hydrocarbons from Biomass via Hydrothermal Carboxylate Reforming. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 4420-4424.	1.8	18
26	Family-wide Annotation of Enzymatic Pathways by Parallel In Vivo Metabolomics. <i>Cell Chemical Biology</i> , 2019, 26, 1623-1629.e3.	2.5	15
27	D ₂ O Labeling to measure active biosynthesis of natural products in medicinal plants. <i>AIChE Journal</i> , 2018, 64, 4319-4330.	1.8	14
28	Cooperative enzymatic control of N-acyl amino acids by PM20D1 and FAAH. <i>ELife</i> , 2020, 9, .	2.8	14
29	An accessible, scalable ecosystem for enabling and sharing diverse mass spectrometry imaging analyses. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 18-26.	1.4	13
30	A Plasma Protein Network Regulates PM20D1 and N-Acyl Amino Acid Bioactivity. <i>Cell Chemical Biology</i> , 2020, 27, 1130-1139.e4.	2.5	11
31	Heterologous expression of diverse propionyl-CoA carboxylases affects polyketide production in <i>Escherichia coli</i> . <i>Journal of Antibiotics</i> , 2017, 70, 859-863.	1.0	8
32	Tunable Enzymatic Synthesis of the Immunomodulator Lipid IV _A To Enable Structure-Activity Analysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 9474-9478.	6.6	5
33	Enantiomers of 4-aminopentanoic acid act as false GABAergic neurotransmitters and impact mouse behavior. <i>Journal of Neurochemistry</i> , 2021, 158, 1074-1082.	2.1	1