Curt R Fischer

List of Publications by Year
in descending order

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	Oxidative ornithine metabolism supports non-inflammatory C.â€‰difficile colonization. Nature Metabolism, 2022, 4, 19-28.	5.1	28
2	A metabolomics pipeline for the mechanistic interrogation of the gut microbiome. Nature, 2021, 595, 415-420.	13.7	198
3	Enantiomers of 4â€aminopentanoic acid act as false GABAergic neurotransmitters and impact mouse behavior. Journal of Neurochemistry, 2021, 158, 1074-1082.	2.1	1
4	A Pathogen-Responsive Gene Cluster for Highly Modified Fatty Acids in Tomato. Cell, 2020, 180, 176-187.e19.	13.5	94
5	Complete Reconstitution and Deorphanization of the 3 MDa Nocardiosis-Associated Polyketide Synthase. Journal of the American Chemical Society, 2020, 142, 5952-5957.	6.6	27
6	A Plasma Protein Network Regulates PM20D1 and N-Acyl Amino Acid Bioactivity. Cell Chemical Biology, 2020, 27, 1130-1139.e4.	2.5	11
7	A Metabolic Pathway for Activation of Dietary Glucosinolates by a Human Gut Symbiont. Cell, 2020, 180, 717-728.e19.	13.5	84
8	Enhancing the Antiviral Efficacy of RNA-Dependent RNA Polymerase Inhibition by Combination with Modulators of Pyrimidine Metabolism. Cell Chemical Biology, 2020, 27, 668-677.e9.	2.5	23
9	Cooperative enzymatic control of N-acyl amino acids by PM20D1 and FAAH. ELife, 2020, 9, .	2.8	14
10	CRISPR-Cas9 screens identify regulators of antibodyâ€“drug conjugate toxicity. Nature Chemical Biology, 2019, 15, 949-958.	3.9	56
11	Family-wide Annotation of Enzymatic Pathways by Parallel InÂVivo Metabolomics. Cell Chemical Biology, 2019, 26, 1623-1629.e3.	2.5	15
12	Tunable Enzymatic Synthesis of the Immunomodulator Lipid IV_A To Enable Structureâ€“Activity Analysis. Journal of the American Chemical Society, 2019, 141, 9474-9478.	6.6	5
13	Thioesterase-Catalyzed Aminoacylation and Thiolation of Polyketides in Fungi. Journal of the American Chemical Society, 2019, 141, 8198-8206.	6.6	20
14	Depletion of microbiome-derived molecules in the host using Clostridium genetics. Science, 2019, 366, .	6.0	103
15	HEx: A heterologous expression platform for the discovery of fungal natural products. Science Advances, 2018, 4, eaar5459.	4.7	167
16	D₂O Labeling to measure active biosynthesis of natural products in medicinal plants. AICHE Journal, 2018, 64, 4319-4330.	1.8	14
17	N -hydroxy-pipecolic acid is a mobile metabolite that induces systemic disease resistance in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4920-E4929.	3.3	187
18	Heterologous expression of diverse propionyl-CoA carboxylases affects polyketide production in Escherichia coli. Journal of Antibiotics, 2017, 70, 859-863.	1.0	8

#	Article	IF	Citations
19	An accessible, scalable ecosystem for enabling and sharing diverse mass spectrometry imaging analyses. Archives of Biochemistry and Biophysics, 2016, 589, 18-26.	1.4	13
20	High-throughput platforms for metabolomics. Current Opinion in Chemical Biology, 2016, 30, 7-13.	2.8	60
21	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
22	Production of C₃ Hydrocarbons from Biomass via Hydrothermal Carboxylate Reforming. Industrial & Engineering Chemistry Research, 2011, 50, 4420-4424.	1.8	18
23	Assessment of heterologous butyrate and butanol pathway activity by measurement of intracellular pathway intermediates in recombinant Escherichia coli. Applied Microbiology and Biotechnology, 2010, 88, 265-275.	1.7	36
24	Analysis of polyhydroxybutyrate flux limitations by systematic genetic and metabolic perturbations. Metabolic Engineering, 2010, 12, 187-195.	3.6	52
25	Selection and optimization of microbial hosts for biofuels production. Metabolic Engineering, 2008, 10, 295-304.	3.6	343
26	Engineering promoter regulation. Biotechnology and Bioengineering, 2007, 96, 550-558.	1.7	67
27	Identifying Functionally Important Mutations from Phenotypically Diverse Sequence Data. Applied and Environmental Microbiology, 2006, 72, 3696-3701.	1.4	23
28	Engineering of Promoter Replacement Cassettes for Fine-Tuning of Gene Expression in Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2006, 72, 5266-5273.	1.4	200
29	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
30	The coexistence ofEscherichia coliserotype O157:H7 and its specific bacteriophage in continuous culture. FEMS Microbiology Letters, 2004, 241, 171-177.	0.7	51
31	The criterion for selecting effective phage for Escherichia coli O157:H7 control. Biochemical Engineering Journal, 2004, 19, 221-227.	1.8	18
32	Coevolution of Bacteriophage PP01 and Escherichia coli O157:H7 in Continuous Culture. Applied and Environmental Microbiology, 2003, 69, 170-176.	1.4	173
33	Amino acid alterations in Gp38 of host range mutants of PP01 and evidence for their infection of anompCnull mutant ofEscherichia coliO157:H7. FEMS Microbiology Letters, 2002, 216, 243-248.	0.7	22