Christopher W Johnson

List of Publications by Year
in descending order

34 papers	4,374 citations	279487 23 h-index	377514 34 g-index
36 all docs	36 docs citations	36 times ranked	4134 citing authors

#	Article	IF	Citations
1	Debottlenecking 4-hydroxybenzoate hydroxylation in Pseudomonas putida KT2440 improves muconate productivity from p-coumarate. Metabolic Engineering, 2022, 70, 31-42.	3.6	25
2	Bioconversion of wastewater-derived cresols to methyl muconic acids for use in performance-advantaged bioproducts. Green Chemistry, 2022, 24, 3677-3688.	4.6	4
3	Corrigendum to â€œEngineering glucose metabolism for enhanced muconic acid production in Pseudomonas putida KT2440â€•[Metab. Eng. 59 (2020) 64â€“75]. Metabolic Engineering, 2022, 72, 66-67.	3.6	0
4	Production of Î²-ketoadipic acid from glucose in Pseudomonas putida KT2440 for use in performance-advantaged nylons. Cell Reports Physical Science, 2022, 3, 100840.	2.8	18
5	Machine-learning from Pseudomonas putida KT2440 transcriptomes reveals its transcriptional regulatory network. Metabolic Engineering, 2022, 72, 297-310.	3.6	28
6	Engineering a Cytochrome P450 for Demethylation of Lignin-Derived Aromatic Aldehydes. Jacs Au, 2021, 1, 252-261.	3.6	20
7	Metabolism of syringyl lignin-derived compounds in Pseudomonas putida enables convergent production of 2-pyrone-4,6-dicarboxylic acid. Metabolic Engineering, 2021, 65, 111-122.	3.6	48
8	Tandem chemical deconstruction and biological upcycling of poly(ethylene terephthalate) to Î²-ketoadipic acid by Pseudomonas putida KT2440. Metabolic Engineering, 2021, 67, 250-261.	3.6	74
9	Biological upgrading of pyrolysis-derived wastewater: Engineering Pseudomonas putida for alkylphenol, furfural, and acetone catabolism and (methyl)muconic acid production. Metabolic Engineering, 2021, 68, 14-25.	3.6	20
10	Engineering glucose metabolism for enhanced muconic acid production in Pseudomonas putida KT2440. Metabolic Engineering, 2020, 59, 64-75.	3.6	76
11	Characterization and engineering of a two-enzyme system for plastics depolymerization. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25476-25485.	3.3	262
12	Gene amplification, laboratory evolution, and biosensor screening reveal MucK as a terephthalic acid transporter in Acinetobacter baylyi ADP1. Metabolic Engineering, 2020, 62, 260-274.	3.6	35
13	High-Throughput Large-Scale Targeted Proteomics Assays for Quantifying Pathway Proteins in Pseudomonas putida KT2440. Frontiers in Bioengineering and Biotechnology, 2020, 8, 603488.	2.0	10
14	Enabling microbial syringol conversion through structure-guided protein engineering. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13970-13976.	3.3	41
15	Innovative Chemicals and Materials from Bacterial Aromatic Catabolic Pathways. Joule, 2019, 3, 1523-1537.	11.7	142
16	Sensor-Enabled Alleviation of Product Inhibition in Chorismate Pyruvate-Lyase. ACS Synthetic Biology, 2019, 8, 775-786.	1.9	23
17	Characterization and engineering of a plastic-degrading aromatic polyesterase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4350-E4357.	3.3	632
18	Thermochemical wastewater valorization<i>via</i>enhanced microbial toxicity tolerance. Energy and Environmental Science, 2018, 11, 1625-1638.	15.6	77

#	Article	IF	Citations
19	A protocatechuate biosensor for Pseudomonas putida KT2440 via promoter and protein evolution. Metabolic Engineering Communications, 2018, 6, 33-38.	1.9	29
20	Bioprocess development for muconic acid production from aromatic compounds and lignin. Green Chemistry, 2018, 20, 5007-5019.	4.6	127
21	A promiscuous cytochrome P450 aromatic O-demethylase for lignin bioconversion. Nature Communications, 2018, 9, 2487.	5.8	135
22	Accelerating pathway evolution by increasing the gene dosage of chromosomal segments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7105-7110.	3.3	52
23	Conversion and assimilation of furfural and 5-(hydroxymethyl)furfural by Pseudomonas putida KT2440. Metabolic Engineering Communications, 2017, 4, 22-28.	1.9	74
24	Eliminating a global regulator of carbon catabolite repression enhances the conversion of aromatic lignin monomers to muconate in Pseudomonas putida KT2440. Metabolic Engineering Communications, 2017, 5, 19-25.	1.9	93
25	Enhancing muconic acid production from glucose and lignin-derived aromatic compounds via increased protocatechuate decarboxylase activity. Metabolic Engineering Communications, 2016, 3, 111-119.	1.9	194
26	cis,cis-Muconic acid: separation and catalysis to bio-adipic acid for nylon-6,6 polymerization. Green Chemistry, 2016, 18, 3397-3413.	4.6	147
27	Opportunities and challenges in biological lignin valorization. Current Opinion in Biotechnology, 2016, 42, 40-53.	3.3	517
28	Aromatic catabolic pathway selection for optimal production of pyruvate and lactate from lignin. Metabolic Engineering, 2015, 28, 240-247.	3.6	205
29	Adipic acid production from lignin. Energy and Environmental Science, 2015, 8, 617-628.	15.6	499
30	Lignin valorization through integrated biological funneling and chemical catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12013-12018.	3.3	652
31	Vgll2a is required for neural crest cell survival during zebrafish craniofacial development. Developmental Biology, 2011, 357, 269-281.	0.9	45
32	The L6 domain tetraspanin Tm4sf4 regulates endocrine pancreas differentiation and directed cell migration. Development (Cambridge), 2011, 138, 3213-3224.	1.2	32
33	Nkx2.2 Activates the Ghrelin Promoter in Pancreatic Islet Cells. Molecular Endocrinology, 2010, 24, 381-390.	3.7	16
34	The Coprinus cinereus adherin Rad9 functions in Mre11-dependent DNA repair, meiotic sister-chromatid cohesion, and meiotic homolog pairing. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14958-14963.	3.3	21