David J Leak

List of Publications by Year
in descending order

36 papers	893 citations	516710 16 h-index	501196 28 g-index
39 all docs	39 docs citations	39 times ranked	965 citing authors

#	Article	IF	Citations
1	Relaxed control of sugar utilization in Parageobacillus thermoglucosidasius DSM 2542. Microbiological Research, 2022, 256, 126957.	5.3	6
2	Xylo-Oligosaccharide Utilization by Engineered Saccharomyces cerevisiae to Produce Ethanol. Frontiers in Bioengineering and Biotechnology, 2022, 10, 825981.	4.1	5
3	Xylo-oligosaccharides, fermentable sugars, and bioenergy production from sugarcane straw using steam explosion pretreatment at pilot-scale. Bioresource Technology, 2022, 357, 127093.	9.6	24
4	The heterologous production of terpenes by the thermophile Parageobacillus thermoglucosidasius in a consolidated bioprocess using waste bread. Metabolic Engineering, 2021, 65, 146-155.	7.0	15
5	Simultaneous saccharification and lactic acid fermentation of the cellulosic fraction of municipal solid waste using Bacillus smithii. Biotechnology Letters, 2021, 43, 667-675.	2.2	11
6	Production of oligosaccharides and biofuels from Miscanthus using combinatorial steam explosion and ionic liquid pretreatment. Bioresource Technology, 2021, 323, 124625.	9.6	49
7	Genome-scale metabolic modeling of P. thermoglucosidasius NCIMB 11955 reveals metabolic bottlenecks in anaerobic metabolism. Metabolic Engineering, 2021, 65, 123-134.	7.0	14
8	Are eucalyptus harvest residues a truly burden-free biomass source for bioenergy? A deeper look into biorefinery process design and Life Cycle Assessment. Journal of Cleaner Production, 2021, 299, 126956.	9.3	11
9	Selecting fermentation products for food waste valorisation with HRT and OLR as the key operational parameters. Waste Management, 2021, 127, 80-89.	7.4	34
10	Continuous removal of ethanol from dilute ethanol-water mixtures using hot microbubbles. Chemical Engineering Journal, 2021, 424, 130511.	12.7	12
11	Pilot-scale production of xylo-oligosaccharides and fermentable sugars from Miscanthus using steam explosion pretreatment. Bioresource Technology, 2020, 296, 122285.	9.6	64
12	Hot Microbubble Air Stripping of Dilute Ethanolâ€“Water Mixtures. Industrial & Engineering Chemistry Research, 2020, 59, 19392-19405.	3.7	7
13	Polymers from sugars and unsaturated fatty acids: ADMET polymerisation of monomers derived from <scp>d</scp>-xylose, <scp>d</scp>-mannose and castor oil. Polymer Chemistry, 2020, 11, 2681-2691.	3.9	35
14	Comparison of Nile Red and Cell Size Analysis for Highâ€Throughput Lipid Estimation Within Oleaginous Yeast. European Journal of Lipid Science and Technology, 2019, 121, 1800355.	1.5	12
15	Heterologous Microcompartment Assembly in Bacillaceae: Establishing the Components Necessary for Scaffold Formation. ACS Synthetic Biology, 2019, 8, 1642-1654.	3.8	9
16	Esterification of geraniol as a strategy for increasing product titre and specificity in engineered Escherichia coli. Microbial Cell Factories, 2019, 18, 105.	4.0	36
17	EngineeringEscherichia colifor the production of butyl octanoate from endogenous octanoyl-CoA. PeerJ, 2019, 7, e6971.	2.0	11
18	Continuous enzymatic hydrolysis of sugar beet pectin and l-arabinose recovery within an integrated biorefinery. Bioresource Technology, 2018, 269, 195-202.	9.6	17

#	Article	IF	Citations
19	Crystal structure of an inferred ancestral bacterial pyruvate decarboxylase. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 179-186.	0.8	3
20	Novel thermostable antibiotic resistance enzymes from the Atlantis II Deep Red Sea brine pool. Microbial Biotechnology, 2017, 10, 189-202.	4.2	20
21	Characterization of the first naturally thermostable terpene synthases and development of strategies to improve thermostability in this family of enzymes. FEBS Journal, 2017, 284, 1700-1711.	4.7	9
22	Centrifugal partition chromatography in a biorefinery context: Optimisation and scale-up of monosaccharide fractionation from hydrolysed sugar beet pulp. Journal of Chromatography A, 2017, 1497, 56-63.	3.7	19
23	Development of an efficient technique for gene deletion and allelic exchange in Geobacillus spp.. Microbial Cell Factories, 2017, 16, 58.	4.0	15
24	Production of ethanol by thermophilic oligosaccharide utilising Geobacillus thermoglucosidasius TM242 using palm kernel cake as a renewable feedstock. Biomass and Bioenergy, 2016, 95, 45-54.	5.7	36
25	Crystal structure of pyruvate decarboxylase fromZymobacter palmae. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 700-706.	0.8	8
26	TheGeobacillusPlasmid Set: A Modular Toolkit for Thermophile Engineering. ACS Synthetic Biology, 2016, 5, 1342-1347.	3.8	48
27	Translational Arrest Due to Cytoplasmic Redox Stress Delays Adaptation to Growth on Methanol and Heterologous Protein Expression in a Typical Fed-Batch Culture of Pichia pastoris. PLoS ONE, 2015, 10, e0119637.	2.5	12
28	PathwayBooster: a tool to support the curation of metabolic pathways. BMC Bioinformatics, 2015, 16, 86.	2.6	6
29	The Genus Geobacillus and Their Biotechnological Potential. Advances in Applied Microbiology, 2015, 92, 1-48.	2.4	87
30	Metabolic characterization and modeling of fermentation process of an engineered Geobacillus thermoglucosidasius strain for bioethanol production with gas stripping. Chemical Engineering Science, 2015, 122, 138-149.	3.8	18
31	Modular system for assessment of glycosyl hydrolase secretion in Geobacillus thermoglucosidasius. Microbiology (United Kingdom), 2013, 159, 1267-1275.	1.8	41
32	Application of pheB as a Reporter Gene for Geobacillus spp., Enabling Qualitative Colony Screening and Quantitative Analysis of Promoter Strength. Applied and Environmental Microbiology, 2012, 78, 5945-5947.	3.1	18
33	Biocatalysts for selective introduction of oxygen. Biocatalysis and Biotransformation, 2009, 27, 1-26.	2.0	72
34	Degradation of cyclohexylamine by a new isolate of Pseudomonas plecoglossicida. World Journal of Microbiology and Biotechnology, 2008, 24, 1623-1625.	3.6	11
35	Heterologous expression of pyruvate decarboxylase in Geobacillus thermoglucosidasius. Biotechnology Letters, 2008, 30, 1359-1365.	2.2	28
36	Development of a versatile shuttle vector for gene expression in Geobacillus spp.. Plasmid, 2008, 60, 45-52.	1.4	67