

David J Leak

List of Publications by Year in descending order

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36
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965
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The Genus <i>Geobacillus</i> and Their Biotechnological Potential. <i>Advances in Applied Microbiology</i> , 2015, 92, 1-48. | 2.4 | 87 |
| 2 | Biocatalysts for selective introduction of oxygen. <i>Biocatalysis and Biotransformation</i> , 2009, 27, 1-26. | 2.0 | 72 |
| 3 | Development of a versatile shuttle vector for gene expression in <i>Geobacillus</i> spp.. <i>Plasmid</i> , 2008, 60, 45-52. | 1.4 | 67 |
| 4 | Pilot-scale production of xylo-oligosaccharides and fermentable sugars from <i>Miscanthus</i> using steam explosion pretreatment. <i>Bioresource Technology</i> , 2020, 296, 122285. | 9.6 | 64 |
| 5 | Production of oligosaccharides and biofuels from <i>Miscanthus</i> using combinatorial steam explosion and ionic liquid pretreatment. <i>Bioresource Technology</i> , 2021, 323, 124625. | 9.6 | 49 |
| 6 | The <i>Geobacillus</i> Plasmid Set: A Modular Toolkit for Thermophile Engineering. <i>ACS Synthetic Biology</i> , 2016, 5, 1342-1347. | 3.8 | 48 |
| 7 | Modular system for assessment of glycosyl hydrolase secretion in <i>Geobacillus thermoglucosidasius</i> . <i>Microbiology (United Kingdom)</i> , 2013, 159, 1267-1275. | 1.8 | 41 |
| 8 | Production of ethanol by thermophilic oligosaccharide utilising <i>Geobacillus thermoglucosidasius</i> TM242 using palm kernel cake as a renewable feedstock. <i>Biomass and Bioenergy</i> , 2016, 95, 45-54. | 5.7 | 36 |
| 9 | Esterification of geraniol as a strategy for increasing product titre and specificity in engineered <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2019, 18, 105. | 4.0 | 36 |
| 10 | Polymers from sugars and unsaturated fatty acids: ADMET polymerisation of monomers derived from xylose, mannose and castor oil. <i>Polymer Chemistry</i> , 2020, 11, 2681-2691. | 3.9 | 35 |
| 11 | Selecting fermentation products for food waste valorisation with HRT and OLR as the key operational parameters. <i>Waste Management</i> , 2021, 127, 80-89. | 7.4 | 34 |
| 12 | Heterologous expression of pyruvate decarboxylase in <i>Geobacillus thermoglucosidasius</i> . <i>Biotechnology Letters</i> , 2008, 30, 1359-1365. | 2.2 | 28 |
| 13 | Xylo-oligosaccharides, fermentable sugars, and bioenergy production from sugarcane straw using steam explosion pretreatment at pilot-scale. <i>Bioresource Technology</i> , 2022, 357, 127093. | 9.6 | 24 |
| 14 | Novel thermostable antibiotic resistance enzymes from the Atlantis II Deep Red Sea brine pool. <i>Microbial Biotechnology</i> , 2017, 10, 189-202. | 4.2 | 20 |
| 15 | Centrifugal partition chromatography in a biorefinery context: Optimisation and scale-up of monosaccharide fractionation from hydrolysed sugar beet pulp. <i>Journal of Chromatography A</i> , 2017, 1497, 56-63. | 3.7 | 19 |
| 16 | Application of <i>pheB</i> as a Reporter Gene for <i>Geobacillus</i> spp., Enabling Qualitative Colony Screening and Quantitative Analysis of Promoter Strength. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5945-5947. | 3.1 | 18 |
| 17 | Metabolic characterization and modeling of fermentation process of an engineered <i>Geobacillus thermoglucosidasius</i> strain for bioethanol production with gas stripping. <i>Chemical Engineering Science</i> , 2015, 122, 138-149. | 3.8 | 18 |
| 18 | Continuous enzymatic hydrolysis of sugar beet pectin and l-arabinose recovery within an integrated biorefinery. <i>Bioresource Technology</i> , 2018, 269, 195-202. | 9.6 | 17 |

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|----|---|------|-----------|
| 19 | Development of an efficient technique for gene deletion and allelic exchange in <i>Geobacillus</i> spp.. <i>Microbial Cell Factories</i> , 2017, 16, 58. | 4.0 | 15 |
| 20 | The heterologous production of terpenes by the thermophile <i>Parageobacillus thermoglucosidasius</i> in a consolidated bioprocess using waste bread. <i>Metabolic Engineering</i> , 2021, 65, 146-155. | 7.0 | 15 |
| 21 | Genome-scale metabolic modeling of <i>P. thermoglucosidasius</i> NCIMB 11955 reveals metabolic bottlenecks in anaerobic metabolism. <i>Metabolic Engineering</i> , 2021, 65, 123-134. | 7.0 | 14 |
| 22 | Translational Arrest Due to Cytoplasmic Redox Stress Delays Adaptation to Growth on Methanol and Heterologous Protein Expression in a Typical Fed-Batch Culture of <i>Pichia pastoris</i> . <i>PLoS ONE</i> , 2015, 10, e0119637. | 2.5 | 12 |
| 23 | Comparison of Nile Red and Cell Size Analysis for High-Throughput Lipid Estimation Within Oleaginous Yeast. <i>European Journal of Lipid Science and Technology</i> , 2019, 121, 1800355. | 1.5 | 12 |
| 24 | Continuous removal of ethanol from dilute ethanol-water mixtures using hot microbubbles. <i>Chemical Engineering Journal</i> , 2021, 424, 130511. | 12.7 | 12 |
| 25 | Degradation of cyclohexylamine by a new isolate of <i>Pseudomonas plecoglossicida</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 1623-1625. | 3.6 | 11 |
| 26 | Simultaneous saccharification and lactic acid fermentation of the cellulosic fraction of municipal solid waste using <i>Bacillus smithii</i> . <i>Biotechnology Letters</i> , 2021, 43, 667-675. | 2.2 | 11 |
| 27 | Are eucalyptus harvest residues a truly burden-free biomass source for bioenergy? A deeper look into biorefinery process design and Life Cycle Assessment. <i>Journal of Cleaner Production</i> , 2021, 299, 126956. | 9.3 | 11 |
| 28 | Engineering <i>Escherichia coli</i> for the production of butyl octanoate from endogenous octanoyl-CoA. <i>PeerJ</i> , 2019, 7, e6971. | 2.0 | 11 |
| 29 | Characterization of the first naturally thermostable terpene synthases and development of strategies to improve thermostability in this family of enzymes. <i>FEBS Journal</i> , 2017, 284, 1700-1711. | 4.7 | 9 |
| 30 | Heterologous Microcompartment Assembly in <i>Bacillaceae</i> : Establishing the Components Necessary for Scaffold Formation. <i>ACS Synthetic Biology</i> , 2019, 8, 1642-1654. | 3.8 | 9 |
| 31 | Crystal structure of pyruvate decarboxylase from <i>Zymobacter palmae</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 700-706. | 0.8 | 8 |
| 32 | Hot Microbubble Air Stripping of Dilute Ethanol-Water Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19392-19405. | 3.7 | 7 |
| 33 | PathwayBooster: a tool to support the curation of metabolic pathways. <i>BMC Bioinformatics</i> , 2015, 16, 86. | 2.6 | 6 |
| 34 | Relaxed control of sugar utilization in <i>Parageobacillus thermoglucosidasius</i> DSM 2542. <i>Microbiological Research</i> , 2022, 256, 126957. | 5.3 | 6 |
| 35 | Xylo-Oligosaccharide Utilization by Engineered <i>Saccharomyces cerevisiae</i> to Produce Ethanol. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 825981. | 4.1 | 5 |
| 36 | Crystal structure of an inferred ancestral bacterial pyruvate decarboxylase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 179-186. | 0.8 | 3 |