

David Alexander Mitchell

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163
papers

4,970
citations

37
h-index

64
g-index

172
ext. papers

5,290
ext. citations

4.9
avg, IF

5.47
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 163 | New developments in solid state fermentation: I-bioprocesses and products. <i>Process Biochemistry</i> , 2000 , 35, 1153-1169 | 4.8 | 729 |
| 162 | Production of polyhydroxyalkanoates (PHAs) from waste materials and by-products by submerged and solid-state fermentation. <i>Bioresource Technology</i> , 2009 , 100, 5996-6009 | 11 | 228 |
| 161 | New developments in solid-state fermentation. <i>Process Biochemistry</i> , 2000 , 35, 1211-1225 | 4.8 | 154 |
| 160 | A review of recent developments in modeling of microbial growth kinetics and intraparticle phenomena in solid-state fermentation. <i>Biochemical Engineering Journal</i> , 2004 , 17, 15-26 | 4.2 | 133 |
| 159 | Identification and characterization of a new true lipase isolated through metagenomic approach. <i>Microbial Cell Factories</i> , 2011 , 10, 54 | 6.4 | 127 |
| 158 | Molecular and structural characterization of the biosurfactant produced by <i>Pseudomonas aeruginosa</i> DAUPE 614. <i>Chemistry and Physics of Lipids</i> , 2007 , 147, 1-13 | 3.7 | 122 |
| 157 | Activity and stability of a crude lipase from <i>Penicillium aurantiogriseum</i> in aqueous media and organic solvents. <i>Biochemical Engineering Journal</i> , 2004 , 18, 65-71 | 4.2 | 105 |
| 156 | Synthesis of biodiesel in column fixed-bed bioreactor using the fermented solid produced by <i>Burkholderia cepacia</i> LTEB11. <i>Process Biochemistry</i> , 2010 , 45, 1348-1354 | 4.8 | 94 |
| 155 | Recent developments in modeling of solid-state fermentation: heat and mass transfer in bioreactors. <i>Biochemical Engineering Journal</i> , 2003 , 13, 137-147 | 4.2 | 90 |
| 154 | Esterification and transesterification reactions catalysed by addition of fermented solids to organic reaction media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007 , 44, 8-13 | | 88 |
| 153 | Microbial conversion of lignocellulosic residues for production of animal feeds. <i>Animal Feed Science and Technology</i> , 2002 , 98, 1-12 | 3 | 87 |
| 152 | Biodiesel production from soybean soapstock acid oil by hydrolysis in subcritical water followed by lipase-catalyzed esterification using a fermented solid in a packed-bed reactor. <i>Biochemical Engineering Journal</i> , 2013 , 81, 15-23 | 4.2 | 83 |
| 151 | First evidence for the salt-dependent folding and activity of an esterase from the halophilic archaea <i>Haloarcula marismortui</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009 , 1791, 719-29 | 5 | 78 |
| 150 | Validation of a model describing two-dimensional heat transfer during solid-state fermentation in packed bed bioreactors 1998 , 60, 739-749 | | 77 |
| 149 | Production of pectinases by solid-state fermentation of a mixture of citrus waste and sugarcane bagasse in a pilot-scale packed-bed bioreactor. <i>Biochemical Engineering Journal</i> , 2016 , 111, 54-62 | 4.2 | 74 |
| 148 | Scale-up strategies for packed-bed bioreactors for solid-state fermentation. <i>Process Biochemistry</i> , 1999 , 35, 167-178 | 4.8 | 72 |
| 147 | Production of surfactin by <i>Bacillus pumilus</i> UFPEDA 448 in solid-state fermentation using a medium based on okara with sugarcane bagasse as a bulking agent. <i>Process Biochemistry</i> , 2012 , 47, 1848-1855 | 4.8 | 69 |

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| 146 | Hydrolysis and synthesis reactions catalysed by <i>Thermomyces lanuginosa</i> lipase in the AOT/Isooctane reversed micellar system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004 , 30, 43-49 | | 69 |
| 145 | Evaluating strategies for overcoming overheating problems during solid-state fermentation in packed bed bioreactors. <i>Biochemical Engineering Journal</i> , 1999 , 3, 141-150 | 4.2 | 64 |
| 144 | Thermal denaturation: is solid-state fermentation really a good technology for the production of enzymes?. <i>Bioresource Technology</i> , 2004 , 93, 261-8 | 11 | 63 |
| 143 | A two-phase model for water and heat transfer within an intermittently-mixed solid-state fermentation bioreactor with forced aeration. <i>Biotechnology and Bioengineering</i> , 2002 , 79, 416-28 | 4.9 | 61 |
| 142 | Preliminary characterisation of a lipolytic activity from an extremely halophilic archaeon, <i>Natronococcus</i> sp.. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006 , 41, 21-26 | | 59 |
| 141 | Production of pectinases by solid-state fermentation in a pilot-scale packed-bed bioreactor. <i>Chemical Engineering Journal</i> , 2016 , 283, 1009-1018 | 14.7 | 56 |
| 140 | A semimechanistic mathematical model for growth of <i>Rhizopus oligosporus</i> in a model solid-state fermentation system. <i>Biotechnology and Bioengineering</i> , 1991 , 38, 353-62 | 4.9 | 54 |
| 139 | Pineapple waste - a novel substrate for citric acid production by solid-state fermentation. <i>Biotechnology Letters</i> , 1995 , 17, 1107-1110 | 3 | 52 |
| 138 | Mathematical modeling as a tool to investigate the design and operation of the zymotis packed-bed bioreactor for solid-state fermentation. <i>Biotechnology and Bioengineering</i> , 2000 , 68, 127-35 | 4.9 | 51 |
| 137 | Solid-state fermentation in rotating drum bioreactors: operating variables affect performance through their effects on transport phenomena. <i>Biotechnology and Bioengineering</i> , 1999 , 63, 383-91 | 4.9 | 49 |
| 136 | Production of rhamnolipids in solid-state cultivation using a mixture of sugarcane bagasse and corn bran supplemented with glycerol and soybean oil. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 1395-403 | 5.7 | 48 |
| 135 | Leaching and characterization of <i>Rhizopus oligosporus</i> acid protease from solid-state fermentation. <i>Enzyme and Microbial Technology</i> , 1996 , 19, 171-175 | 3.8 | 47 |
| 134 | Decolorization and biodegradation of reactive blue 220 textile dye by <i>Lentinus crinitus</i> extracellular extract. <i>Journal of Hazardous Materials</i> , 2010 , 180, 316-22 | 12.8 | 46 |
| 133 | Selection of a strain of <i>Aspergillus</i> for the production of citric acid from pineapple waste in solid-state fermentation. <i>World Journal of Microbiology and Biotechnology</i> , 1998 , 14, 399-404 | 4.4 | 45 |
| 132 | Links between morphology and physiology of <i>Ganoderma lucidum</i> in submerged culture for the production of exopolysaccharide. <i>Journal of Biotechnology</i> , 2004 , 114, 153-64 | 3.7 | 41 |
| 131 | Evaluation of the potential for use in biocatalysis of a lipase from a wild strain of <i>Bacillus megaterium</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004 , 31, 53-61 | | 40 |
| 130 | Incorporation of death kinetics into a 2-dimensional dynamic heat transfer model for solid state fermentation. <i>Journal of Chemical Technology and Biotechnology</i> , 1995 , 64, 253-260 | 3.5 | 40 |
| 129 | Synthesis of myrcene by pyrolysis of <i>Epine</i> : Analysis of decomposition reactions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007 , 80, 92-100 | 6 | 38 |

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|-----|--|------|----|
| 128 | Optimization of the production of rhamnolipids by <i>Pseudomonas aeruginosa</i> UFPEDA 614 in solid-state culture. <i>Applied Microbiology and Biotechnology</i> , 2008 , 81, 441-8 | 5.7 | 38 |
| 127 | Overview of solid state bioprocessing. <i>Biotechnology Annual Review</i> , 2002 , 8, 183-225 | | 37 |
| 126 | A mathematical model describing the effect of temperature variations on the kinetics of microbial growth in solid-state culture. <i>Process Biochemistry</i> , 2005 , 40, 801-807 | 4.8 | 35 |
| 125 | Control strategies for intermittently mixed, forcefully aerated solid-state fermentation bioreactors based on the analysis of a distributed parameter model. <i>Chemical Engineering Science</i> , 2004 , 59, 4493-4504 | 4.4 | 34 |
| 124 | Biochemical engineering aspects of solid state bioprocessing. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2000 , 68, 61-138 | 1.7 | 34 |
| 123 | Intermittent agitation contributes to uniformity across the bed during pectinase production by <i>Aspergillus niger</i> grown in solid-state fermentation in a pilot-scale packed-bed bioreactor. <i>Biochemical Engineering Journal</i> , 2017 , 121, 1-12 | 4.2 | 33 |
| 122 | Pectinase activity determination: an early deceleration in the release of reducing sugars throws a spanner in the works!. <i>PLoS ONE</i> , 2014 , 9, e109529 | 3.7 | 33 |
| 121 | Baffles increase performance of solid-state fermentation in rotating drum bioreactors. <i>Biotechnology Letters</i> , 1995 , 9, 295-298 | | 30 |
| 120 | Optimization studies to develop a low-cost medium for production of the lipases of <i>Rhizopus microsporus</i> by solid-state fermentation and scale-up of the process to a pilot packed-bed bioreactor. <i>Process Biochemistry</i> , 2017 , 62, 37-47 | 4.8 | 29 |
| 119 | Bed moisture estimation by monitoring of air stream temperature rise in packed-bed solid-state fermentation. <i>Chemical Engineering Science</i> , 2006 , 61, 5654-5663 | 4.4 | 29 |
| 118 | Two-phase model of the kinetics of growth of <i>Rhizopus oligosporus</i> in membrane culture. <i>Biotechnology and Bioengineering</i> , 2000 , 68, 619-27 | 4.9 | 29 |
| 117 | Mode of growth of <i>Rhizopus oligosporus</i> on a model substrate in solid-state fermentation. <i>World Journal of Microbiology and Biotechnology</i> , 1990 , 6, 201-8 | 4.4 | 28 |
| 116 | Transesterification of castor oil in a solvent-free medium using the lipase from <i>Burkholderia cepacia</i> LTEB11 immobilized on a hydrophobic support. <i>Fuel</i> , 2014 , 117, 458-462 | 7.1 | 27 |
| 115 | Biodiesel production by solvent-free ethanolysis of palm oil catalyzed by fermented solids containing lipases of <i>Burkholderia contaminans</i> . <i>Biochemical Engineering Journal</i> , 2017 , 127, 77-86 | 4.2 | 26 |
| 114 | Immobilization and characterization of a new regioselective and enantioselective lipase obtained from a metagenomic library. <i>PLoS ONE</i> , 2015 , 10, e0114945 | 3.7 | 26 |
| 113 | Approach to designing rotating drum bioreactors for solid-state fermentation on the basis of dimensionless design factors 2000 , 67, 274-282 | | 26 |
| 112 | Synthesis of Ethylic Esters for Biodiesel Purposes Using Lipases Naturally Immobilized in a Fermented Solid Produced Using <i>Rhizopus microsporus</i> . <i>Energy & Fuels</i> , 2014 , 28, 5197-5203 | 4.1 | 25 |
| 111 | Degalatosylation of xyloglucan: Effect on aggregation and conformation, as determined by time dependent static light scattering, HPSEC-MALLS and viscosimetry. <i>Carbohydrate Polymers</i> , 2011 , 83, 1636-1642 | 10.3 | 25 |

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| 110 | Modelling fungal growth on surfaces. <i>Biotechnology Letters</i> , 1998 , 12, 313-318 | | 25 |
| 109 | Use of confocal scanning laser microscopy to measure the concentrations of aerial and penetrative hyphae during growth of <i>Rhizopus oligosporus</i> on a solid surface. <i>Biotechnology and Bioengineering</i> , 2003 , 84, 71-7 | 4.9 | 25 |
| 108 | Protease production by <i>Rhizopus oligosporus</i> in solid-state fermentation. <i>World Journal of Microbiology and Biotechnology</i> , 1994 , 10, 320-4 | 4.4 | 25 |
| 107 | Production of rhamnolipids in solid-state cultivation: Characterization, downstream processing and application in the cleaning of contaminated soils. <i>Biotechnology Journal</i> , 2009 , 4, 748-55 | 5.6 | 24 |
| 106 | An efficient system for catalyzing ester synthesis using a lipase from a newly isolated <i>Burkholderia cepacia</i> strain. <i>Biocatalysis and Biotransformation</i> , 2008 , 26, 197-203 | 2.5 | 24 |
| 105 | Response of <i>Rhizopus oligosporus</i> to temporal temperature profiles in a model solid-state fermentation system. <i>Biotechnology and Bioengineering</i> , 1999 , 64, 722-8 | 4.9 | 24 |
| 104 | Operational parameters for packed beds in solid-state cultivation. <i>Biotechnology Advances</i> , 1993 , 11, 599-610 | 17.8 | 24 |
| 103 | A model substrate for solid-state fermentation. <i>Biotechnology Letters</i> , 1986 , 8, 827-832 | 3 | 24 |
| 102 | Scale-up of biodiesel synthesis in a closed-loop packed-bed bioreactor system using the fermented solid produced by <i>Burkholderia lata</i> LTEB11. <i>Chemical Engineering Journal</i> , 2017 , 316, 341-349 | 14.7 | 23 |
| 101 | Immobilization of LipC12, a new lipase obtained by metagenomics, and its application in the synthesis of biodiesel esters. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 116, 45-51 | | 23 |
| 100 | Analysis of multiphasic behavior during the ethyl esterification of fatty acids catalyzed by a fermented solid with lipolytic activity in a packed-bed bioreactor in a closed-loop batch system. <i>Fuel</i> , 2015 , 159, 364-372 | 7.1 | 23 |
| 99 | Conversion of orange peel to L-galactonic acid in a consolidated process using engineered strains of <i>Aspergillus niger</i> . <i>AMB Express</i> , 2014 , 4, 33 | 4.1 | 23 |
| 98 | The potential for establishment of axial temperature profiles during solid-state fermentation in rotating drum bioreactors. <i>Biotechnology and Bioengineering</i> , 2002 , 80, 114-22 | 4.9 | 23 |
| 97 | O ₂ uptake during solid-state fermentation in a rotating drum bioreactor. <i>Biotechnology Letters</i> , 1998 , 20, 607-611 | 3 | 22 |
| 96 | Production of microbial biosurfactants by solid-state cultivation. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 672, 203-10 | 3.6 | 21 |
| 95 | Spore production in solid-state fermentation of rice by <i>Clonostachys rosea</i> , a biopesticide for gray mold of strawberries. <i>Process Biochemistry</i> , 2007 , 42, 275-278 | 4.8 | 21 |
| 94 | Mathematical model of heat transfer during solid-state fermentation in well-mixed rotating drum bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 1180-1192 | 3.5 | 21 |
| 93 | A model for growth of a single fungal hypha based on well-mixed tanks in series: simulation of nutrient and vesicle transport in aerial reproductive hyphae. <i>PLoS ONE</i> , 2015 , 10, e0120307 | 3.7 | 20 |

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| 92 | Investigating the use of cooling surfaces in solid-state fermentation tray bioreactors: modelling and experimentation. <i>Journal of Chemical Technology and Biotechnology</i> , 2004 , 79, 1228-1242 | 3.5 | 20 |
| 91 | Residence time distributions of gas flowing through rotating drum bioreactors. <i>Biotechnology and Bioengineering</i> , 2001 , 74, 145-53 | 4.9 | 20 |
| 90 | Suppression of penetrative hyphae of <i>Rhizopus oligosporus</i> by membrane filters in a model solid-state fermentation system. <i>Biotechnology Letters</i> , 1989 , 3, 45-50 | | 20 |
| 89 | Mass transfer correlations for rotating drum bioreactors. <i>Journal of Biotechnology</i> , 2002 , 97, 89-101 | 3.7 | 19 |
| 88 | Optimization of biodiesel synthesis by esterification using a fermented solid produced by <i>Rhizopus microsporus</i> on sugarcane bagasse. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 573-583 | 3.7 | 18 |
| 87 | The introduction of the fungal D-galacturonate pathway enables the consumption of D-galacturonic acid by <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2016 , 15, 144 | 6.4 | 18 |
| 86 | A model-based investigation of the potential advantages of multi-layer packed beds in solid-state fermentation. <i>Biochemical Engineering Journal</i> , 2010 , 48, 195-203 | 4.2 | 18 |
| 85 | Oxygen uptake kinetics during solid state fermentation with <i>Rhizopus oligosporus</i> . <i>Biotechnology Letters</i> , 1998 , 12, 171-175 | | 17 |
| 84 | Use of confocal microscopy to follow the development of penetrative hyphae during growth of <i>Rhizopus oligosporus</i> in an artificial solid-state fermentation system. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 438-47 | 4.9 | 17 |
| 83 | Improvement of growth of <i>Rhizopus oligosporus</i> on a model solid substrate. <i>Biotechnology Letters</i> , 1988 , 10, 497-502 | 3 | 17 |
| 82 | Metagenomics: Is it a powerful tool to obtain lipases for application in biocatalysis?. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140320 | 4 | 17 |
| 81 | A comparative study of the synthesis of n-butyl-oleate using a crude lipolytic extract of <i>Penicillium coryophilum</i> in water-restricted environments. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005 , 34, 25-32 | | 16 |
| 80 | A three-dimensional discrete lattice-based system for modeling the growth of aerial hyphae of filamentous fungi on solid surfaces: A tool for investigating micro-scale phenomena in solid-state fermentation. <i>Biochemical Engineering Journal</i> , 2011 , 54, 164-171 | 4.2 | 15 |
| 79 | First co-expression of a lipase and its specific foldase obtained by metagenomics. <i>Microbial Cell Factories</i> , 2014 , 13, 171 | 6.4 | 14 |
| 78 | Rheological characterization of a xanthan-galactomannan hydrogel loaded with lipophilic substances. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 2457-67 | 3.9 | 14 |
| 77 | An analytical method for determining relative specificities for sequential reactions catalyzed by the same enzyme: application to the hydrolysis of triacylglycerols by lipases. <i>Journal of Biotechnology</i> , 2008 , 133, 343-50 | 3.7 | 14 |
| 76 | An analytical method for determining relative specificities for sequential reactions catalyzed by the same enzyme: general formulation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008 , 1784, 705-15 | 4 | 14 |
| 75 | Agar plate growth studies of <i>Rhizopus oligosporus</i> and <i>Aspergillus oryzae</i> to determine their suitability for solid-state fermentation. <i>Applied Microbiology and Biotechnology</i> , 1988 , 28, 598 | 5.7 | 14 |

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|----|---|-----|----|
| 74 | Immobilization of <i>Pseudomonas cepacia</i> lipase on layered double hydroxide of Zn/Al-Cl for kinetic resolution of rac-1-phenylethanol. <i>Enzyme and Microbial Technology</i> , 2019 , 130, 109365 | 3.8 | 13 |
| 73 | An empirical model of growth of <i>Rhizopus oligosporus</i> in solid-state fermentation. <i>Journal of Bioscience and Bioengineering</i> , 1991 , 72, 224-226 | | 13 |
| 72 | Characterization of an immobilized recombinant lipase from <i>Rhizopus oryzae</i> : Synthesis of ethyl-oleate. <i>Biocatalysis and Agricultural Biotechnology</i> , 2014 , 3, 13-19 | 4.2 | 12 |
| 71 | Biochemical characterization and application of a new lipase and its cognate foldase obtained from a metagenomic library derived from fat-contaminated soil. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 442-454 | 7.9 | 11 |
| 70 | Optimal operating conditions for maximum biogas production in anaerobic bioreactors. <i>Applied Thermal Engineering</i> , 2014 , 62, 197-206 | 5.8 | 11 |
| 69 | SPII: Simultaneous production and immobilization of lipase from <i>Burkholderia cepacia</i> LTEB11. <i>Biocatalysis and Biotransformation</i> , 2011 , 29, 19-24 | 2.5 | 11 |
| 68 | Protein measurement in solid-state fermentation. <i>Biotechnology Letters</i> , 1991 , 5, 437-442 | | 11 |
| 67 | Development of a model solid-state fermentation system. <i>Biotechnology Letters</i> , 1988 , 2, 1-6 | | 11 |
| 66 | Enhanced microalgae biomass and lipid output for increased biodiesel productivity. <i>Renewable Energy</i> , 2021 , 163, 138-145 | 8.1 | 11 |
| 65 | Enhancing the enantioselectivity of the lipase from <i>Burkholderia cepacia</i> LTEB11 towards the resolution of secondary allylic alcohols. <i>Biocatalysis and Agricultural Biotechnology</i> , 2014 , 3, 146-153 | 4.2 | 10 |
| 64 | Mathematical model of the CO ₂ solubilisation reaction rates developed for the study of photobioreactors. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 787-795 | 2.3 | 10 |
| 63 | Exopolysaccharide from surface-liquid culture of <i>Clonostachys rosea</i> originates from autolysis of the biomass. <i>Archives of Microbiology</i> , 2009 , 191, 369-78 | 3 | 10 |
| 62 | Determination of the quantitative stereoselectivity fingerprint of lipases during hydrolysis of a prochiral triacylglycerol. <i>Journal of Biotechnology</i> , 2008 , 135, 168-73 | 3.7 | 10 |
| 61 | Solid-State Fermentation Bioreactor Fundamentals: Introduction and Overview 2006 , 1-12 | | 10 |
| 60 | A packed bed solid-state cultivation system for the production of animal feed: Cultivation, drying and product quality. <i>Biotechnology Letters</i> , 1992 , 14, 623-628 | 3 | 10 |
| 59 | A combined sorption and kinetic model for multiphasic ethyl esterification of fatty acids from soybean soapstock acid oil catalyzed by a fermented solid with lipase activity in a solvent-free system. <i>Biochemical Engineering Journal</i> , 2017 , 120, 84-92 | 4.2 | 9 |
| 58 | Interesterification of fat blends using a fermented solid with lipolytic activity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012 , 76, 75-81 | | 9 |
| 57 | Mathematical model of the binding of allosteric effectors to the <i>Escherichia coli</i> PII signal transduction protein GlnB. <i>Biochemistry</i> , 2013 , 52, 2683-93 | 3.2 | 9 |

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| 56 | Continuous solid-state fermentation as affected by substrate flow pattern. <i>Chemical Engineering Science</i> , 2006 , 61, 2675-2687 | 4.4 | 9 |
| 55 | Tailoring recombinant lipases: keeping the His-tag favors esterification reactions, removing it favors hydrolysis reactions. <i>Scientific Reports</i> , 2018 , 8, 10000 | 4.9 | 9 |
| 54 | Modeling the Growth of Filamentous Fungi at the Particle Scale in Solid-State Fermentation Systems. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015 , 149, 171-221 | 1.7 | 8 |
| 53 | Protein enrichment of sago starch by solid-state fermentation with <i>Rhizopus</i> spp. <i>World Journal of Microbiology and Biotechnology</i> , 1991 , 7, 419-27 | 4.4 | 8 |
| 52 | The ammonium transporter AmtB and the PII signal transduction protein GlnZ are required to inhibit DraG in <i>Azospirillum brasilense</i> . <i>FEBS Journal</i> , 2019 , 286, 1214-1229 | 5.7 | 8 |
| 51 | Co-expression, purification and characterization of the lipase and foldase of <i>Burkholderia contaminans</i> LTEB11. <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 1222-1231 | 7.9 | 8 |
| 50 | CFD simulation of a packed-bed solid-state fermentation bioreactor. <i>Applied Mathematical Modelling</i> , 2019 , 70, 439-458 | 4.5 | 7 |
| 49 | A novel enzymatic method for the synthesis of methyl 6-O-acetyl- β -D-glucopyranoside using a fermented solid containing lipases produced by <i>Burkholderia contaminans</i> LTEB11. <i>Process Biochemistry</i> , 2018 , 73, 86-93 | 4.8 | 7 |
| 48 | Conversion of citric pectin into D-galacturonic acid with high substrate loading using a fermented solid with pectinolytic activity. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017 , 11, 214-219 | 4.2 | 7 |
| 47 | Liquid-liquid equilibrium data and thermodynamic modeling for systems related to the production of ethyl esters of fatty acids from soybean soapstock acid oil. <i>Fuel</i> , 2015 , 147, 147-154 | 7.1 | 7 |
| 46 | Axial mixing in rotating drums using magnetic resonance imaging using bran as a model for solid state fermentations. <i>Biotechnology Letters</i> , 2002 , 24, 521-525 | 3 | 7 |
| 45 | Fingerprinting of oligosaccharide-hydrolyzing enzymes that catalyze branched reaction schemes. <i>Biochemical Engineering Journal</i> , 2016 , 113, 93-101 | 4.2 | 7 |
| 44 | Evaluation of the structural composition and surface properties of rhamnolipid mixtures produced by <i>Pseudomonas aeruginosa</i> UFPEDA 614 in different cultivation periods. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 175, 988-95 | 3.2 | 6 |
| 43 | Synthesis of flavor esters and structured lipids by a new immobilized lipase, LipC12, obtained from metagenomics. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016 , 8, 294-300 | 4.2 | 6 |
| 42 | Design and Operation of a Pilot-Scale Packed-Bed Bioreactor for the Production of Enzymes by Solid-State Fermentation. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2019 , 169, 27-50 | 1.7 | 5 |
| 41 | Colonization of solid particles by <i>Rhizopus oligosporus</i> and <i>Aspergillus oryzae</i> in solid-state fermentation involves two types of penetrative hyphae: A model-based study on how these hyphae grow. <i>Biochemical Engineering Journal</i> , 2016 , 114, 173-182 | 4.2 | 5 |
| 40 | Transient two dimensional heat conduction by orthogonal collocation technique. <i>International Communications in Heat and Mass Transfer</i> , 1993 , 20, 557-566 | 5.8 | 5 |
| 39 | A model-based strategy for scaling-up traditional packed-bed bioreactors for solid-state fermentation based on measurement of O ₂ uptake rates. <i>Biochemical Engineering Journal</i> , 2021 , 166, 107854 | 4.2 | 5 |

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| 38 | Estimation of heat and mass transfer coefficients in a pilot packed-bed solid-state fermentation bioreactor. <i>Chemical Engineering Journal</i> , 2021 , 408, 127246 | 14.7 | 5 |
| 37 | A new mathematical method for determining the enantiomeric ratio in lipase-catalyzed reactions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010 , 64, 23-28 | | 4 |
| 36 | Mimicking gas and temperature changes during enzyme production by <i>Rhizopus oligosporus</i> in solid-state fermentation. <i>Biotechnology Letters</i> , 1998 , 20, 349-353 | 3 | 4 |
| 35 | Group III: Rotating-Drum and Stirred-Drum Bioreactors 2006 , 95-114 | | 4 |
| 34 | The use of dilution rate cycling to stabilise recombinant plasmids in continuous culture of recombinant <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 1996 , 45, 205-210 | 3.7 | 4 |
| 33 | Data analysis of plasmid stability in continuous culture of recombinant <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 1992 , 6, 393-398 | | 4 |
| 32 | Fermented solids that contain lipases produced by <i>Rhizopus microsporus</i> have an S-enantiopreference in the resolution of secondary alcohols. <i>Biochemical Engineering Journal</i> , 2021 , 165, 107817 | 4.2 | 4 |
| 31 | Stochastic models based on the Monte Carlo method for the hydrolysis of oligogalacturonates and polygalacturonates by endopolygalacturonases and exopolygalacturonases. <i>Chemical Engineering Journal</i> , 2017 , 322, 417-427 | 14.7 | 3 |
| 30 | Key mutation sites for improvement of the enantioselectivity of lipases through protein engineering. <i>Biochemical Engineering Journal</i> , 2021 , 172, 108047 | 4.2 | 3 |
| 29 | Environmental Solid-State Cultivation Processes and Bioreactors 2010 , 287-342 | | 2 |
| 28 | Application of Automatic Control Strategies to SSF Bioreactors 2006 , 387-402 | | 2 |
| 27 | A Model of a Rotating-Drum Bioreactor 2006 , 315-330 | | 2 |
| 26 | Determination of lipase activity using image analysis. <i>Analytical Biochemistry</i> , 2006 , 351, 305-7 | 3.1 | 2 |
| 25 | Looking through a new lens: Expressing the Ping Pong bi bi equation in terms of specificity constants. <i>Biochemical Engineering Journal</i> , 2022 , 178, 108276 | 4.2 | 2 |
| 24 | Fermented Solids and Their Application in the Production of Organic Compounds of Biotechnological Interest. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2019 , 169, 125-146 | 1.7 | 2 |
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2 Solid State Fermentation, Microbial Growth Kinetics1

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