M Manuela R Da Fonseca

List of Publications by Citations

75 papers	2,755 citations	26 h-index	51 g-index
77 ext. papers	3,017 ext. citations	5 avg, IF	5.26 L-index

#	Paper	IF	Citations
75	Bioaugmentation and biostimulation strategies to improve the effectiveness of bioremediation processes. *Biodegradation*, **2011**, 22, 231-41	4.1	485
74	Carvone: Why and how should one bother to produce this terpene. *Food Chemistry*, **2006**, 95, 413-422	8.5	263
73	Biotransformation of terpenes. *Biotechnology Advances*, **2006**, 24, 134-42	17.8	181
72	Enhanced bioproduction of poly-3-hydroxybutyrate from wheat straw lignocellulosic hydrolysates. *New Biotechnology*, **2014**, 31, 104-13	6.4	141
71	Effect of cultivation parameters on the production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) and poly(3-hydroxybutyrate-4-hydroxybutyrate-3-hydroxyvalerate) by Cupriavidus necator using waste glycerol. *Bioresource Technology*, **2012**, 111, 391-7	11	122
70	The remarkable Rhodococcus erythropolis. *Applied Microbiology and Biotechnology*, **2005**, 67, 715-26	5.7	100
69	Marine algal carbohydrates as carbon sources for the production of biochemicals and biomaterials. *Biotechnology Advances*, **2018**, 36, 798-817	17.8	88
68	Contribution of response surface design to the development of glycerolysis systems catalyzed by commercial immobilized lipases. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 699-711		66
67	Adaptation of Rhodococcus erythropolis DCL14 to growth on n-alkanes, alcohols and terpenes. *Applied Microbiology and Biotechnology*, **2005**, 67, 383-8	5.7	60
66	Degradation of hydrocarbons and alcohols at different temperatures and salinities by Rhodococcus erythropolis DCL14. *FEMS Microbiology Ecology*, **2005**, 51, 389-99	4.3	59
65	Mycobacterium sp., Rhodococcus erythropolis, and Pseudomonas putida behavior in the presence of organic solvents. *Microscopy Research and Technique*, **2004**, 64, 215-22	2.8	52
64	Esterification activity and operational stability of Candida rugosa lipase immobilized in polyurethane foams in the production of ethyl butyrate. *Biochemical Engineering Journal*, **2010**, 48, 246-252	4.2	49
63	Production of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by Burkholderia sacchari using wheat straw hydrolysates and gamma-butyrolactone. *International Journal of Biological Macromolecules*, **2014**, 71, 59-67	7.9	46
62	Adaptation of Rhodococcus erythropolis cells to high concentrations of toluene. *Applied Microbiology and Biotechnology*, **2007**, 76, 1423-30	5.7	42
61	Operational stability of Thermomyces lanuginosa lipase during interesterification of fat in continuous packed-bed reactors. *European Journal of Lipid Science and Technology*, **2006**, 108, 545-553	3	40
60	Response surface modelling of the production of ☐B polyunsaturated fatty acids-enriched fats by a commercial immobilized lipase. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 677-686		40
59	Synthesis of ethyl butyrate in organic media catalyzed by Candida rugosa lipase immobilized in polyurethane foams: A kinetic study. *Biochemical Engineering Journal*, **2009**, 43, 327-332	4.2	38

58	A Burkholderia sacchari cell factory: production of poly-3-hydroxybutyrate, xylitol and xylonic acid from xylose-rich sugar mixtures. *New Biotechnology*, **2017**, 34, 12-22	6.4	37
57	Maintenance of cell viability in the biotransformation of (−)-carveol with whole cells of Rhodococcus erythropolis. *Journal of Molecular Catalysis B: Enzymatic*, **2002**, 19-20, 389-398		37
56	Lipase-catalysed interesterification of palm stearin with soybean oil in a continuous fluidised-bed reactor. *European Journal of Lipid Science and Technology*, **2005**, 107, 455-463	3	34
55	Cell adaptation to solvent, substrate and product: a successful strategy to overcome product inhibition in a bioconversion system. *Applied Microbiology and Biotechnology*, **2005**, 69, 268-75	5.7	31
54	Modelling the production of ethyl butyrate catalysed by Candida rugosa lipase immobilised in polyurethane foams. *Biochemical Engineering Journal*, **2007**, 33, 148-158	4.2	30
53	Lipase/acyltransferase-catalysed interesterification of fat blends containing n-3 polyunsaturated fatty acids. *European Journal of Lipid Science and Technology*, **2009**, 111, 120-134	3	28
52	Preventing biofilm formation: promoting cell separation with terpenes. *FEMS Microbiology Ecology*, **2007**, 61, 406-13	4.3	28
51	Influence of reactor configuration on the production of carvone from carveol by whole cells of Rhodococcus erythropolis DCL14. *Journal of Molecular Catalysis B: Enzymatic*, **2002**, 19-20, 377-387		26
50	Towards a cost effective strategy for cutinase production by a recombinant Saccharomyces cerevisiae: strain physiological aspects. *Applied Microbiology and Biotechnology*, **2003**, 61, 69-76	5.7	26
49	Integration of the production and the purification processes of cutinase secreted by a recombinant Saccharomyces cerevisiae SU50 strain. *Journal of Biotechnology*, **2004**, 109, 147-58	3.7	26
48	Development of a reaction system for the selective conversion of (−)-trans-carveol to (−)-carvone with whole cells of Rhodococcus erythropolis DCL14. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 719-724		25
47	Production and Recovery of Limonene-1,2-Diol and Simultaneous Resolution of a Diastereomeric Mixture of Limonene-1,2-Epoxide with whole Cells of Rhodococcus Erythropolis DCL14. *Biocatalysis and Biotransformation*, **2000**, 18, 223-235	2.5	25
46	Polyhydroxyalkanoates: waste glycerol upgrade into electrospun fibrous scaffolds for stem cells culture. *International Journal of Biological Macromolecules*, **2014**, 71, 131-40	7.9	24
45	Solvent toxicity in organic-aqueous systems analysed by multivariate analysis. *Bioprocess and Biosystems Engineering*, **2004**, 26, 361-75	3.7	24
44	Behaviour of Mycobacterium sp. NRRL B-3805 whole cells in aqueous, organic-aqueous and organic media studied by fluorescence microscopy. *Applied Microbiology and Biotechnology*, **2004**, 64, 695-701	5.7	24
43	Efficient P(3HB) extraction from Burkholderia sacchari cells using non-chlorinated solvents. *Biochemical Engineering Journal*, **2015**, 103, 39-46	4.2	23
42	Operational stability of immobilised lipase/acyltransferase during interesterification of fat blends. *European Journal of Lipid Science and Technology*, **2009**, 111, 358-367	3	21
41	Assessment of three-dimensional biofilm structure using an optical microscope. *BioTechniques*, **2007**, 42, 616, 618-20	2.5	21

40	Response surface modeling of glycerolysis catalyzed by Candida rugosa lipase immobilized in different polyurethane foams for the production of partial glycerides. *Journal of Molecular Catalysis B: Enzymatic*, **2003**, 21, 71-80		21
39	Modelling lipase-catalysed transesterification of fats containing n-3 fatty acids monitored by their solid fat content. *European Journal of Lipid Science and Technology*, **2004**, 106, 599-612	3	20
38	Towards the bio-production of trans-carveol and carvone from limonene: induction after cell growth on limonene and toluene. *Tetrahedron: Asymmetry*, **2003**, 14, 3925-3931		20
37	Principal Components Analysis as a Tool to Summarise Biotransformation Data: Influence on Cells of Solvent Type and Phase Ratio. *Biocatalysis and Biotransformation*, **2003**, 21, 305-314	2.5	20
36	Antibacterial properties of the extract of Abelmoschus esculentus. *Biotechnology and Bioprocess Engineering*, **2011**, 16, 971-977	3.1	19
35	Callus and suspension culture ofSilybum marianum. Biosynthesis of proteins with clotting activity. *Biotechnology Letters*, **1986**, 8, 19-24	3	18
34	Feeding strategies for tuning poly (3-hydroxybutyrate-co-4-hydroxybutyrate) monomeric composition and productivity using Burkholderia sacchari. *International Journal of Biological Macromolecules*, **2017**, 105, 825-833	7.9	16
33	Interesterification of fat blends rich in ⊟ polyunsaturated fatty acids catalysed by immobilized Thermomyces lanuginosa lipase under high pressure. *Journal of Molecular Catalysis B: Enzymatic*, **2008**, 52-53, 58-66		15
32	Kinetics of L-tryptophan production from indole and L-serine catalyzed by whole cells with tryptophanase activity. *Journal of Bioscience and Bioengineering*, **2004**, 97, 289-93	3.3	14
31	Partitioning of water in organic systems with lipase immobilized in polyurethane foams. *Biochemical Engineering Journal*, **2005**, 26, 29-37	4.2	14
30	A simple method to observe organic solvent drops with a standard optical microscope. *Microscopy Research and Technique*, **2003**, 60, 465-6	2.8	13
29	Principal component analysis applied to bacterial cell behaviour in the presence of organic solvents. *Biocatalysis and Biotransformation*, **2004**, 22, 203-214	2.5	12
28	Recombinant Saccharomyces cerevisiae strain triggers acetate production to fuel biosynthetic pathways. *Journal of Biotechnology*, **2004**, 109, 159-67	3.7	12
27	The Effect of Substrate Hydrophobicity on the Kinetic Behaviour of Immobilized Candida rugosa Lipase. *Biocatalysis and Biotransformation*, **1995**, 13, 99-110	2.5	12
26	Modelling the microenvironment of a lipase immobilized in polyurethane foams. *Biocatalysis and Biotransformation*, **2005**, 23, 363-373	2.5	11
25	Solvent selection for the biotransformation of terpenes by Pseudomonas putida. *Journal of Molecular Catalysis B: Enzymatic*, **1998**, 5, 295-299		10
24	Novel calibration method for mass spectrometers for on-line gas analysis. Set-up for the monitoring of a bacterial fermentation. *Bioprocess and Biosystems Engineering*, **1998**, 19, 289		10
23	Xylonic acid production from xylose by Paraburkholderia sacchari. *Biochemical Engineering Journal*, **2021**, 170, 107982	4.2	10

22	Adaptation of Cupriavidus necator to conditions favoring polyhydroxyalkanoate production. *Journal of Biotechnology*, **2012**, 164, 309-17	3.7	9
21	Modelling the biokinetic resolution of diastereomers present in unequal initial amounts. *Tetrahedron: Asymmetry*, **2002**, 13, 1637-1643		9
20	Calibration of near infrared spectroscopy for solid fat content of fat blends analysis using nuclear magnetic resonance data. *Analytica Chimica Acta*, **2005**, 544, 213-218	6.6	9
19	Diffusion in cell-free and cell immobilising kappa-carrageenan gel beads with and without chemical reaction. *Biotechnology and Bioengineering*, **1999**, 63, 625-31	4.9	9
18	Adsorption studies for the separation ofl-tryptophan froml-serine and indole in a bioconversion medium. *Bioprocess and Biosystems Engineering*, **1995**, 12, 95-102		9
17	Upgrading the organic fraction of municipal solid waste to poly(3-hydroxybutyrate). *Bioresource Technology*, **2019**, 290, 121785	11	8
16	On the heterogeneous composition of bacterial polyhydroxyalkanoate terpolymers. *Bioresource Technology*, **2013**, 147, 434-441	11	8
15	Solubility of Propene in Water and in a Mineral Medium for the Cultivation of a XanthobacterStrain. *Journal of Solution Chemistry*, **1998**, 27, 455-461	1.8	8
14	A simple imaging method for biomass determination. *Journal of Microbiological Methods*, **2005**, 60, 135-40	2.8	8
13	Degradation of hydrocarbons and alcohols by Rhodococcus erythropolis DCL14: A comparison in scale performance. *Biocatalysis and Biotransformation*, **2007**, 25, 144-150	2.5	7
12	Pattern recognition of lipase-catalyzed or chemically interesterified fat blends containing n-3 polyunsaturated fatty acids. *European Journal of Lipid Science and Technology*, **2008**, 110, 893-904	3	6
11	A microporous membrane interface for the monitoring of dissolved gaseous and volatile compounds by on-line mass spectrometry. *Journal of Membrane Science*, **2002**, 208, 49-56	9.6	6
10	Characterization and Production of a Polyhydroxyalkanoate from Cassava Peel Waste: Manufacture of Biopolymer Microfibers by Electrospinning. *Journal of Polymers and the Environment*, **2021**, 29, 187-200	4.5	6
9	Macroalgae as Protein Sources□A Review on Protein Bioactivity, Extraction, Purification and Characterization. *Applied Sciences (Switzerland)*, **2021**, 11, 7969	2.6	6
8	Model for the production of L-tryptophan from L-serine and indole by immobilized cells in a three-phase liquid-impelled loop reactor. *Bioprocess and Biosystems Engineering*, **1996**, 14, 151-158		5
7	Economic and environmental assessment of bacterial poly(3-hydroxybutyrate) production from the organic fraction of municipal solid waste. *Bioresources and Bioprocessing*, **2021**, 8,	5.2	4
6	The effect of solid medium composition on growth and sporulation ofStreptomyces clavuligerus; spore viability during storage at +4□C. *Biotechnology Letters*, **1995**, 9, 361-364		3
5	Batch cultivation of Xanthobacter Py2 on 1-pentene. *Biotechnology Letters*, **1994**, 16, 989-994	3	3

4	Giving credit to residual bioresources: From municipal solid waste hydrolysate and waste plum juice to poly (3-hydroxybutyrate). *Waste Management*, **2020**, 118, 534-540	8.6	2
3	Performance of a Liquid-Impelled Loop Reactor with Immobilized Cells. *Progress in Biotechnology*, **1996**, 511-517		1
2	Degradation of toluene and xylene by Rhodococcus cells. *Journal of Biotechnology*, **2007**, 131, S101	3.7	
1	Recovery of the activity of an immobilized lipase after its use in fat transesterification. *Progress in Biotechnology*, **1998**, 15, 435-440		