# Rodrigo Volcan Almeida

## List of Publications by Citations



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|---|---|---|---|
| 37 papers | 711 citations | 16 h-index | 26 g-index |
| 43 ext. papers | 834 ext. citations | 3.8 avg, IF | 3.85 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 37 | Rhamnolipids in perspective: gene regulatory pathways, metabolic engineering, production and technological forecasting. *New Biotechnology*, **2016**, 33, 123-35 | 6.4 | 90 |
| 36 | From structure to catalysis: recent developments in the biotechnological applications of lipases. *BioMed Research International*, **2014**, 2014, 684506 | 3 | 76 |
| 35 | Preparation of core□shell polymer supports to immobilize lipase B from Candida antarctica. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 100, 59-67 | | 62 |
| 34 | Are Lipases Still Important Biocatalysts? A Study of Scientific Publications and Patents for Technological Forecasting. *PLoS ONE*, **2015**, 10, e0131624 | 3.7 | 61 |
| 33 | Cloning and expression of protease ClpP from Streptococcus pneumoniae in Escherichia coli: study of the influence of kanamycin and IPTG concentration on cell growth, recombinant protein production and plasmid stability. *Vaccine*, **2011**, 29, 7136-43 | 4.1 | 31 |
| 32 | Immobilization of a recombinant thermostable esterase (Pf2001) from Pyrococcus furiosus on microporous polypropylene: Isotherms, hyperactivation and purification. *Biochemical Engineering Journal*, **2008**, 39, 531-537 | 4.2 | 28 |
| 31 | Cloning, expression, partial characterization and structural modeling of a novel esterase from Pyrococcus furiosus. *Enzyme and Microbial Technology*, **2006**, 39, 1128-1136 | 3.8 | 28 |
| 30 | Displaying Lipase B from Candida antarctica in Pichia pastoris Using the Yeast Surface Display Approach: Prospection of a New Anchor and Characterization of the Whole Cell Biocatalyst. *PLoS ONE*, **2015**, 10, e0141454 | 3.7 | 27 |
| 29 | RNAi-based bioinsecticide for Aedes mosquito control. *Scientific Reports*, **2019**, 9, 4038 | 4.9 | 26 |
| 28 | Separation and immobilization of lipase from Penicillium simplicissimum by selective adsorption on hydrophobic supports. *Applied Biochemistry and Biotechnology*, **2009**, 156, 133-45 | 3.2 | 24 |
| 27 | Production of recombinant lipase B from Candida antarctica in Pichia pastoris under control of the promoter PGK using crude glycerol from biodiesel production as carbon source. *Biochemical Engineering Journal*, **2017**, 118, 123-131 | 4.2 | 23 |
| 26 | Characterization of the Recombinant Thermostable Lipase (Pf2001) from Pyrococcus furiosus: Effects of Thioredoxin Fusion Tag and Triton X-100. *Enzyme Research*, **2011**, 2011, 316939 | 2.4 | 22 |
| 25 | Enhanced rhamnolipid production by Pseudomonas aeruginosa overexpressing estA in a simple medium. *PLoS ONE*, **2017**, 12, e0183857 | 3.7 | 21 |
| 24 | Exploring the biotechnologial applications in the archaeal domain. *Brazilian Journal of Microbiology*, **2007**, 38, 398-405 | 2.2 | 19 |
| 23 | Recombinant L-Asparaginase from Zymomonas mobilis: A Potential New Antileukemic Agent Produced in Escherichia coli. *PLoS ONE*, **2016**, 11, e0156692 | 3.7 | 17 |
| 22 | Improving the thermostability and optimal temperature of a lipase from the hyperthermophilic archaeon Pyrococcus furiosus by covalent immobilization. *BioMed Research International*, **2015**, 2015, 250532 | 3 | 16 |
| 21 | Immobilization and Characterization of a Recombinant Thermostable Lipase (Pf2001) from Pyrococcus furiosus on Supports with Different Degrees of Hydrophobicity. *Enzyme Research*, **2010**, 2010, 180418 | 2.4 | 16 |

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| 20 | Efficient kinetic resolution of (±)-1,2-O-isopropylidene-3,6-di-O-benzyl-myo-inositol with the lipase B of Candida antarctica. *Tetrahedron: Asymmetry*, **2010**, 21, 2899-2903 | | 16 |
| 19 | Structural differences of commercial and recombinant lipase B from Candida antarctica: An important implication on enzymes thermostability. *International Journal of Biological Macromolecules*, **2019**, 140, 761-770 | 7.9 | 13 |
| 18 | Kinetic resolution of (±)-1,2-O-isopropylidene-3,6-di-O-benzyl-myo-inositol by lipases: An experimental and theoretical study on the reaction of a key precursor of chiral inositols. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 70, 32-40 | | 13 |
| 17 | Photoactive cotton fabric: Synthesis, characterization and antibacterial evaluation of anthraquinone-based dyes linked to cellulose. *Dyes and Pigments*, **2019**, 161, 16-23 | 4.6 | 12 |
| 16 | Environmentally friendly rhamnolipid production for petroleum remediation. *Chemosphere*, **2020**, 252, 126349 | 8.4 | 9 |
| 15 | Heterologous expression of the antimyotoxic protein DM64 in Pichia pastoris. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005829 | 4.8 | 9 |
| 14 | Structural Mechanism for the Temperature-Dependent Activation of the Hyperthermophilic Pf2001 Esterase. *Structure*, **2018**, 26, 199-208.e3 | 5.2 | 8 |
| 13 | Experimental design of the kinetic resolution of a key precursor of high-value bioactive myo-inositols by an immobilized lipase. *Journal of Chemical Technology and Biotechnology*, **2013**, 88, 205-211 | 3.5 | 7 |
| 12 | Studying the expression of a lipase from Pyrococcus furiosus using response surfaces. *Protein Expression and Purification*, **2013**, 88, 26-32 | 2 | 6 |
| 11 | Expression, purification, and characterization of asparaginase II from Saccharomyces cerevisiae in Escherichia coli. *Protein Expression and Purification*, **2019**, 159, 21-26 | 2 | 4 |
| 10 | Enzyme technology in Brazil: trade balance and research community. *Brazilian Journal of Science and Technology*, **2016**, 3, | | 4 |
| 9 | Expression and homology modeling of 2-aminobiphenyl-2,3-diol-1,2-dioxygenase from Pseudomonas stutzeri carbazole degradation pathway. *Cell Biochemistry and Biophysics*, **2006**, 44, 530-8 | 3.2 | 4 |
| 8 | Application of Rhizomucor miehei lipase-displaying Pichia pastoris whole cell for biodiesel production using agro-industrial residuals as substrate. *International Journal of Biological Macromolecules*, **2021**, 189, 734-743 | 7.9 | 4 |
| 7 | Increase of Candida antarctica lipase B production under PGK promoter in Pichia pastoris: effect of multicopies. *Brazilian Journal of Microbiology*, **2019**, 50, 405-413 | 2.2 | 3 |
| 6 | On the debate about teleology in biology: the notion of "teleological obstacle". *Historia, Ciencias, Saude - Manguinhos*, **2015**, 22, 1321-33 | 0.2 | 3 |
| 5 | Photochemistry of covalently bonded graphene oxide–Perylene diimide system for bacterial growth inhibition started by singlet oxygen. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 407, 113058 | 4.7 | 3 |
| 4 | Construction of wild-type Yarrowia lipolytica IMUFRJ 50682 auxotrophic mutants using dual CRISPR/Cas9 strategy for novel biotechnological approaches. *Enzyme and Microbial Technology*, **2020**, 140, 109621 | 3.8 | 1 |
| 3 | Benchmarking recombinant Pichia pastoris for 3-hydroxypropionic acid production from glycerol. *Microbial Biotechnology*, **2021**, 14, 1671-1682 | 6.3 | 1 |

2 Extremophilic Lipases **2017**, 249-270 0

1 Identification and recombinant expression of an antimicrobial peptide (cecropin B-like) from soybean pest. *Journal of Venomous Animals and Toxins Including Tropical Diseases*, **2021**, 27, e20200127 2.2