Marcos Carlos de Mattos

List of Publications by Year
in descending order

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61 papers	1,760 citations	257101 24 h-index	276539 41 g-index
66 all docs	66 docs citations	66 times ranked	1973 citing authors

#	Article	IF	Citations
1	Taguchi design-assisted co-immobilization of lipase A and B from Candida antarctica onto chitosan: Characterization, kinetic resolution application, and docking studies. Chemical Engineering Research and Design, 2022, 177, 223-244.	2.7	72
2	Whole cells of recombinant CYP153A6-E. coli as biocatalyst for regioselective hydroxylation of monoterpenes. AMB Express, 2022, 12, 48.	1.4	0
3	Chemical modification of clay nanocomposites for the improvement of the catalytic properties of Lipase A from Candida antarctica. Process Biochemistry, 2022, 120, 1-14.	1.8	28
4	Immobilization of Amano lipase AK from Pseudomonas fluorescens on different types of chitosan-containing supports: use in the kinetic resolution of rac-indanol. Bioprocess and Biosystems Engineering, 2021, 44, 785-792.	1.7	3
5	Modulation of lipase B from Candida antarctica properties via covalent immobilization on eco-friendly support for enzymatic kinetic resolution of rac-indanyl acetate. Bioprocess and Biosystems Engineering, 2020, 43, 2253-2268.	1.7	54
6	A Hybrid Board Game to Engage Students in Reviewing Organic Acids and Bases Concepts. Journal of Chemical Education, 2020, 97, 3720-3726.	1.1	18
7	Lipase mediated enzymatic kinetic resolution of phenylethyl halohydrins acetates: A case of study and rationalization. Molecular Catalysis, 2020, 485, 110819.	1.0	4
8	Lipase-catalysed enantioselective kinetic resolution of rac-lipidic alkynylcarbinols and a C5 synthon thereof via a hydrolysis approach. Molecular Catalysis, 2020, 488, 110926.	1.0	4
9	Chemoenzymatic Synthesis of Luliconazole Mediated by Lipases. European Journal of Organic Chemistry, 2018, 2018, 2110-2116.	1.2	19
10	Skeletal Optimization of Cytotoxic Lipidic Dialkynylcarbinols. ChemMedChem, 2018, 13, 1124-1130.	1.6	8
11	Annonalide and derivatives: Semisynthesis, cytotoxic activities and studies on interaction of annonalide with DNA. Journal of Photochemistry and Photobiology B: Biology, 2018, 179, 156-166.	1.7	29
12	Kinetic resolution of drug intermediates catalyzed by lipase B from Candida antarctica immobilized on immobeadâ€350. Biotechnology Progress, 2018, 34, 878-889.	1.3	104
13	Novel nanohybrid biocatalyst: application in the kinetic resolution of secondary alcohols. Journal of Materials Science, 2018, 53, 14121-14137.	1.7	128
14	Semisynthesis and absolute configuration of a novel rearranged 19,20-Î´-lactone (9Î²H)-pimarane diterpene. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 870-875.	0.2	5
15	Design of a lipase-nano particle biocatalysts and its use in the kinetic resolution of medicament precursors. Biochemical Engineering Journal, 2017, 125, 104-115.	1.8	79
16	Chemoenzymatic synthesis of (S)-Pindolol using lipases. Applied Catalysis A: General, 2017, 546, 7-14.	2.2	110
17	Quantification of Barbatusin and 3Î²-Hydroxy-3-deoxybarbatusin in Plectranthus Species by HPLC-DAD. International Journal of Analytical Chemistry, 2017, 2017, 1-5.	0.4	3
18	Cashew apple bagasse as a support for the immobilization of lipase B from Candida antarctica: Application to the chemoenzymatic production of (R)-Indanol. Journal of Molecular Catalysis B: Enzymatic, 2016, 130, 58-69.	1.8	63

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19	Strategies of covalent immobilization of a recombinant Candida antarctica lipase B on pore-expanded SBA-15 and its application in the kinetic resolution of (R , S)-Phenylethyl acetate. Journal of Molecular Catalysis B: Enzymatic, 2016, 133, 246-258.	1.8	67
20	The orange peel as biocatalyst for the hydrolysis of esters. Industrial Crops and Products, 2016, 84, 22-27.	2.5	9
21	Recent Advances in Lipase-Mediated Preparation of Pharmaceuticals and Their Intermediates. International Journal of Molecular Sciences, 2015, 16, 29682-29716.	1.8	118
22	Chemoenzymatic synthesis of rasagiline mesylate using lipases. Applied Catalysis A: General, 2015, 492, 76-82.	2.2	34
23	Esterases as stereoselective biocatalysts. Biotechnology Advances, 2015, 33, 547-565.	6.0	65
24	Cytotoxic compounds from the marine-derived fungusAspergillussp. recovered from the sediments of the Brazilian coast. Natural Product Research, 2015, 29, 1545-1550.	1.0	24
25	Bioprospection of Cytotoxic Compounds in Fungal Strains Recovered from Sediments of the Brazilian Coast. Chemistry and Biodiversity, 2015, 12, 432-442.	1.0	25
26	Biotransformation of the DiterpeneEnt-18,19-dihydroxytrachylobane byRhizopus stolonifer. Journal of the Brazilian Chemical Society, 2015, , .	0.6	2
27	Zingiber officinale(GINGER) AS AN ENZYME SOURCE FOR THE REDUCTION OF CARBONYL COMPOUNDS. Quimica Nova, 2015, , .	0.3	1
28	Regioselective Preparation of Thiamphenicol Esters Through Lipase-Catalyzed Processes. Journal of the Brazilian Chemical Society, 2014, , .	0.6	2
29	Asymmetric chemoenzymatic synthesis of N-acetyl-Î±-amino esters based on lipase-catalyzed kinetic resolutions through interesterification reactions. Tetrahedron, 2014, 70, 2264-2271.	1.0	11
30	New fungi for whole-cell biotransformation of carvone enantiomers. Novel p-menthane-2,8,9-triols production. Applied Catalysis A: General, 2013, 468, 88-94.	2.2	16
31	Solubilisation capacity of Brij surfactants. International Journal of Pharmaceutics, 2012, 436, 631-635.	2.6	42
32	Lens culinaris: A new biocatalyst for reducing carbonyl and nitro groups. Biotechnology and Bioprocess Engineering, 2012, 17, 407-412.	1.4	15
33	Enzymatic regioselective production of chloramphenicol esters. Tetrahedron, 2011, 67, 2858-2862.	1.0	17
34	Bioreduction of prochiral ketones by growing cells of Lasiodiplodia theobromae: Discovery of a versatile biocatalyst for asymmetric synthesis. Journal of Molecular Catalysis B: Enzymatic, 2010, 65, 37-40.	1.8	12
35	Reduction processes biocatalyzed by Vigna unguiculata. Tetrahedron: Asymmetry, 2010, 21, 566-570.	1.8	27
36	Candida tropicalis CE017: a new Brazilian enzymatic source for the bioreduction of aromatic prochiral ketones. Journal of the Brazilian Chemical Society, 2010, 21, 1509-1516.	0.6	15

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37	Alcaloides iboga de Peschiera affinis (Apocynaceae) - AtribuiÃ§Ã£o inequÃvoca dos deslocamentos quÃmicos dos Ã¡tomos de hidrogÃªnio e carbono: atividade antioxidante. Quimica Nova, 2009, 32, 1834-1838.	0.3	16
38	Enantioselective acetylation of racemic alcohols by Manihot esculenta and Passiflora edulis preparations. Journal of Molecular Catalysis B: Enzymatic, 2009, 60, 157-162.	1.8	13
39	Chemoenzymatic preparation of a biologically active naphthoquinone from Tabebuia impetiginosa using lipases or alcohol dehydrogenases. Journal of Molecular Catalysis B: Enzymatic, 2009, 61, 279-283.	1.8	7
40	Coconut water (Cocos nucifera L.)â€"A new biocatalyst system for organic synthesis. Journal of Molecular Catalysis B: Enzymatic, 2009, 57, 78-82.	1.8	79
41	Chemoenzymatic synthesis of optically active Mugetanol isomers: use of lipases and oxidoreductases in fragrance chemistry. Tetrahedron: Asymmetry, 2009, 20, 214-219.	1.8	12
42	Lentinus strigellus: a new versatile stereoselective biocatalyst for the bioreduction of prochiral ketones. Tetrahedron: Asymmetry, 2009, 20, 1057-1061.	1.8	27
43	Constituents and antioxidant activity of two varieties of coconut water (Cocos nucifera L.). Revista Brasileira De Farmacognosia, 2009, 19, 193-198.	0.6	48
44	Immobilized Manihot esculenta preparation as a novel biocatalyst in the enantioselective acetylation of racemic alcohols. Tetrahedron: Asymmetry, 2008, 19, 1419-1424.	1.8	20
45	Efficient access to enantiomerically pure cyclic Î±-amino esters through a lipase-catalyzed kinetic resolution. Tetrahedron: Asymmetry, 2008, 19, 1714-1719.	1.8	22
46	Bioreduction of aromatic aldehydes and ketones by fruitsâ€™ barks of Passiflora edulis. Journal of Molecular Catalysis B: Enzymatic, 2008, 54, 130-133.	1.8	37
47	A new eremophilane-type sesquiterpene from the phytopatogen fungus Lasiodiplodia theobromae (Sphaeropsidaceae). Journal of the Brazilian Chemical Society, 2008, 19, 478-482.	0.6	17
48	Vegetables as Chemical ReagentsâŠ¥. Journal of Natural Products, 2007, 70, 478-492.	1.5	76
49	Efficient Synthesis of 2-Substituted 7-Azaindole Derivatives via Palladium-Catalyzed Coupling and C-N Cyclization Using 18-Crown-6. Synthesis, 2007, 2007, 2149-2152.	1.2	4
50	MetabÃ³litos secundÃ¡rios de Esenbeckia almawillia Kaastra (Rutaceae). Quimica Nova, 2007, 30, 1589-1591.	0.3	5
51	Novel Lapachol Derivatives and Their Antioxidant Activity. Natural Product Communications, 2006, 1, 1934578X0600100.	0.2	1
52	3,3-Diisopentenyl-N-Methyl-2,4-Quinoldione from Esenbeckia Almawillia: The Antitumor Activity of this Alkaloid and its Derivatives. Natural Product Communications, 2006, 1, 1934578X0600100.	0.2	1
53	Bioreduction of aldehydes and ketones using Manihot species. Phytochemistry, 2006, 67, 1637-1643.	1.4	43
54	Total assignment of1H and13C NMR spectra of the alkaloid 3,3-diisopentenyl-N-methyl-2,4-quinoldione and novel reaction derivatives. Magnetic Resonance in Chemistry, 2005, 43, 180-183.	1.1	7

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55	1H and13C NMR spectra of 3,8-dimethoxyfuro[3,2-g]coumarin and maculine fromEsenbeckia grandiflora Martius (Rutaceae). Magnetic Resonance in Chemistry, 2005, 43, 864-866.	1.1	12
56	A study of the sequential Michael addition-ring closure reaction of ethyl acetoacetate with chalcone: influence of quaternary ammonium cations as phase transfer catalysts. Journal of the Brazilian Chemical Society, 2005, 16, 1048-1053.	0.6	3
57	Diastereoselectivity in the Synthesis of Unnatural Î±-Amino Acid Esters by Phase Transfer Catalysis. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2004, 59, 305-309.	0.3	2
58	CONJUGATE ADDITION OF THIOLS AND MALONATES TO THIOCINNAMATES UNDER PTC CONDITIONS. Synthetic Communications, 2002, 32, 1427-1435.	1.1	6
59	New enamine derivatives of lapachol and biological activity. Anais Da Academia Brasileira De Ciencias, 2002, 74, 211-221.	0.3	65
60	Aspectos mecanÃsticos da adiÃ§Ã£o de Michael. Quimica Nova, 1999, 22, 710-714.	0.3	2
61	Biologically Active Volatile Organic Compounds (VOCs) Produced by Rhizospheric Actinobacteria Strains Inhibit the Growth of the Phytopathogen Colletotrichum musae. Journal of the Brazilian Chemical Society, 0, , .	0.6	1