

# 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	Novel nanohybrid biocatalyst: application in the kinetic resolution of secondary alcohols. <i>Journal of Materials Science</i> , 2018, 53, 14121-14137.	1.7	128
2	Recent Advances in Lipase-Mediated Preparation of Pharmaceuticals and Their Intermediates. <i>International Journal of Molecular Sciences</i> , 2015, 16, 29682-29716.	1.8	118
3	Chemoenzymatic synthesis of (S)-Pindolol using lipases. <i>Applied Catalysis A: General</i> , 2017, 546, 7-14.	2.2	110
4	Kinetic resolution of drug intermediates catalyzed by lipase B from <i>Candida antarctica</i> immobilized on imobead®350. <i>Biotechnology Progress</i> , 2018, 34, 878-889.	1.3	104
5	Coconut water ( <i>Cocos nucifera</i> L.)—A new biocatalyst system for organic synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 57, 78-82.	1.8	79
6	Design of a lipase-nano particle biocatalysts and its use in the kinetic resolution of medicament precursors. <i>Biochemical Engineering Journal</i> , 2017, 125, 104-115.	1.8	79
7	Vegetables as Chemical Reagents. <i>Journal of Natural Products</i> , 2007, 70, 478-492.	1.5	76
8	Taguchi design-assisted co-immobilization of lipase A and B from <i>Candida antarctica</i> onto chitosan: Characterization, kinetic resolution application, and docking studies. <i>Chemical Engineering Research and Design</i> , 2022, 177, 223-244.	2.7	72
9	Strategies of covalent immobilization of a recombinant <i>Candida antarctica</i> lipase B on pore-expanded SBA-15 and its application in the kinetic resolution of (R, S)-Phenylethyl acetate. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, 246-258.	1.8	67
10	New enamine derivatives of lapachol and biological activity. <i>Anais Da Academia Brasileira De Ciencias</i> , 2002, 74, 211-221.	0.3	65
11	Esterases as stereoselective biocatalysts. <i>Biotechnology Advances</i> , 2015, 33, 547-565.	6.0	65
12	Cashew apple bagasse as a support for the immobilization of lipase B from <i>Candida antarctica</i> : Application to the chemoenzymatic production of (R)-Indanol. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 130, 58-69.	1.8	63
13	Modulation of lipase B from <i>Candida antarctica</i> properties via covalent immobilization on eco-friendly support for enzymatic kinetic resolution of rac-indanyl acetate. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 2253-2268.	1.7	54
14	Constituents and antioxidant activity of two varieties of coconut water ( <i>Cocos nucifera</i> L.). <i>Revista Brasileira De Farmacognosia</i> , 2009, 19, 193-198.	0.6	48
15	Bioreduction of aldehydes and ketones using <i>Manihot</i> species. <i>Phytochemistry</i> , 2006, 67, 1637-1643.	1.4	43
16	Solubilisation capacity of Brij surfactants. <i>International Journal of Pharmaceutics</i> , 2012, 436, 631-635.	2.6	42
17	Bioreduction of aromatic aldehydes and ketones by fruits' barks of <i>Passiflora edulis</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 54, 130-133.	1.8	37
18	Chemoenzymatic synthesis of rasagiline mesylate using lipases. <i>Applied Catalysis A: General</i> , 2015, 492, 76-82.	2.2	34

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19	Annonalide and derivatives: Semisynthesis, cytotoxic activities and studies on interaction of annonalide with DNA. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 179, 156-166.	1.7	29
20	Chemical modification of clay nanocomposites for the improvement of the catalytic properties of Lipase A from <i>Candida antarctica</i> . <i>Process Biochemistry</i> , 2022, 120, 1-14.	1.8	28
21	<i>Lentinus strigellus</i> : a new versatile stereoselective biocatalyst for the bioreduction of prochiral ketones. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 1057-1061.	1.8	27
22	Reduction processes biocatalyzed by <i>Vigna unguiculata</i> . <i>Tetrahedron: Asymmetry</i> , 2010, 21, 566-570.	1.8	27
23	Bioprospection of Cytotoxic Compounds in Fungal Strains Recovered from Sediments of the Brazilian Coast. <i>Chemistry and Biodiversity</i> , 2015, 12, 432-442.	1.0	25
24	Cytotoxic compounds from the marine-derived fungus <i>Aspergillus</i> sp. recovered from the sediments of the Brazilian coast. <i>Natural Product Research</i> , 2015, 29, 1545-1550.	1.0	24
25	Efficient access to enantiomerically pure cyclic $\alpha$ -amino esters through a lipase-catalyzed kinetic resolution. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 1714-1719.	1.8	22
26	Immobilized <i>Manihot esculenta</i> preparation as a novel biocatalyst in the enantioselective acetylation of racemic alcohols. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 1419-1424.	1.8	20
27	Chemoenzymatic Synthesis of Luliconazole Mediated by Lipases. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2110-2116.	1.2	19
28	A Hybrid Board Game to Engage Students in Reviewing Organic Acids and Bases Concepts. <i>Journal of Chemical Education</i> , 2020, 97, 3720-3726.	1.1	18
29	A new eremophilane-type sesquiterpene from the phytopathogen fungus <i>Lasiodiplodia theobromae</i> (Sphaeropsidaceae). <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 478-482.	0.6	17
30	Enzymatic regioselective production of chloramphenicol esters. <i>Tetrahedron</i> , 2011, 67, 2858-2862.	1.0	17
31	Alcaloides iboga de <i>Peschiera affinis</i> (Apocynaceae) - Atribuição inequívoca dos deslocamentos químicos dos átomos de hidrogênio e carbono: atividade antioxidante. <i>Química Nova</i> , 2009, 32, 1834-1838.	0.3	16
32	New fungi for whole-cell biotransformation of carvone enantiomers. Novel p-menthane-2,8,9-triols production. <i>Applied Catalysis A: General</i> , 2013, 468, 88-94.	2.2	16
33	<i>Candida tropicalis</i> CE017: a new Brazilian enzymatic source for the bioreduction of aromatic prochiral ketones. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 1509-1516.	0.6	15
34	<i>Lens culinaris</i> : A new biocatalyst for reducing carbonyl and nitro groups. <i>Biotechnology and Bioengineering</i> , 2012, 117, 407-412.	1.4	15
35	Enantioselective acetylation of racemic alcohols by <i>Manihot esculenta</i> and <i>Passiflora edulis</i> preparations. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 60, 157-162.	1.8	13
36	<sup>1</sup> H and <sup>13</sup> C NMR spectra of 3,8-dimethoxyfuro[3,2-g]coumarin and maculine from <i>Esenbeckia grandiflora</i> Martius (Rutaceae). <i>Magnetic Resonance in Chemistry</i> , 2005, 43, 864-866.	1.1	12

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37	Chemoenzymatic synthesis of optically active Mugetanol isomers: use of lipases and oxidoreductases in fragrance chemistry. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 214-219.	1.8	12
38	Bioreduction of prochiral ketones by growing cells of <i>Lasiodiplodia theobromae</i> : Discovery of a versatile biocatalyst for asymmetric synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 65, 37-40.	1.8	12
39	Asymmetric chemoenzymatic synthesis of N-acetyl- $\hat{\pm}$ -amino esters based on lipase-catalyzed kinetic resolutions through interesterification reactions. <i>Tetrahedron</i> , 2014, 70, 2264-2271.	1.0	11
40	The orange peel as biocatalyst for the hydrolysis of esters. <i>Industrial Crops and Products</i> , 2016, 84, 22-27.	2.5	9
41	Skeletal Optimization of Cytotoxic Lipidic Dialkynylcarbinols. <i>ChemMedChem</i> , 2018, 13, 1124-1130.	1.6	8
42	Total assignment of $^1\text{H}$ and $^{13}\text{C}$ NMR spectra of the alkaloid 3,3-diisopentenyl-N-methyl-2,4-quinoldione and novel reaction derivatives. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, 180-183.	1.1	7
43	Chemoenzymatic preparation of a biologically active naphthoquinone from <i>Tabebuia impetiginosa</i> using lipases or alcohol dehydrogenases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 279-283.	1.8	7
44	CONJUGATE ADDITION OF THIOLS AND MALONATES TO THIOCINNAMATES UNDER PTC CONDITIONS. <i>Synthetic Communications</i> , 2002, 32, 1427-1435.	1.1	6
45	Metabólitos secundários de <i>Esenbeckia almawillia</i> Kaastra (Rutaceae). <i>Quimica Nova</i> , 2007, 30, 1589-1591.	0.3	5
46	Semisynthesis and absolute configuration of a novel rearranged 19,20- $\hat{\nu}$ -lactone (9 $\hat{\nu}$ -pimarane diterpene). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 870-875.	0.2	5
47	Efficient Synthesis of 2-Substituted 7-Azaindole Derivatives via Palladium-Catalyzed Coupling and C-N Cyclization Using 18-Crown-6. <i>Synthesis</i> , 2007, 2007, 2149-2152.	1.2	4
48	Lipase mediated enzymatic kinetic resolution of phenylethyl halohydrins acetates: A case of study and rationalization. <i>Molecular Catalysis</i> , 2020, 485, 110819.	1.0	4
49	Lipase-catalysed enantioselective kinetic resolution of rac-lipidic alkynylcarbinols and a C5 synthon thereof via a hydrolysis approach. <i>Molecular Catalysis</i> , 2020, 488, 110926.	1.0	4
50	A study of the sequential Michael addition-ring closure reaction of ethyl acetoacetate with chalcone: influence of quaternary ammonium cations as phase transfer catalysts. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, 1048-1053.	0.6	3
51	Quantification of Barbatusin and 3-Hydroxy-3-deoxybarbatusin in <i>Plectranthus</i> Species by HPLC-DAD. <i>International Journal of Analytical Chemistry</i> , 2017, 2017, 1-5.	0.4	3
52	Immobilization of Amano lipase AK from <i>Pseudomonas fluorescens</i> on different types of chitosan-containing supports: use in the kinetic resolution of rac-indanol. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 785-792.	1.7	3
53	Diastereoselectivity in the Synthesis of Unnatural $\hat{\pm}$ -Amino Acid Esters by Phase Transfer Catalysis. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2004, 59, 305-309.	0.3	2
54	Regioselective Preparation of Thiamphenicol Esters Through Lipase-Catalyzed Processes. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	2

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55	Aspectos mecanÃsticos da adiÃÃo de Michael. Quimica Nova, 1999, 22, 710-714.	0.3	2
56	Biotransformation of the DiterpeneEnt-18,19-dihydroxytrachylobane byRhizopus stolonifer. Journal of the Brazilian Chemical Society, 2015, , .	0.6	2
57	Novel Lapachol Derivatives and Their Antioxidant Activity. Natural Product Communications, 2006, 1, 1934578X0600100.	0.2	1
58	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
59	Zingiber officinale(GINGER) AS AN ENZYME SOURCE FOR THE REDUCTION OF CARBONYL COMPOUNDS. Quimica Nova, 2015, , .	0.3	1
60	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
61	Whole cells of recombinant CYP153A6-E. coli as biocatalyst for regioselective hydroxylation of monoterpenes. AMB Express, 2022, 12, 48.	1.4	0