Mara Lujn Ferreira

List of Publications by Year in Descending Order

73 papers	1,569 citations	20 h-index	37 g-index
74 ext. papers	1,792 ext. citations	4.1 avg, IF	5.03 L-index

#	Paper	IF	Citations
73	Potential applications of spent adsorbents and catalysts: Re-valorization of waste.. *Science of the Total Environment*, **2022**, 823, 153370	10.2	1
72	Production of Plant Proteases and New Biotechnological Applications: An Updated Review.. *ChemistryOpen*, **2022**, 11, e202200017	2.3	1
71	Immobilization and bioimprinting strategies to enhance the performance in organic medium of the metagenomic lipase LipC12. *Journal of Biotechnology*, **2021**, 342, 13-27	3.7	2
70	Low-cost nanoparticulate oxidation catalysts for the removal of azo and anthraquinic dyes. *Journal of Environmental Health Science & Engineering*, **2021**, 19, 721-731	2.9	1
69	Challenges of dye removal treatments based on IONzymes: Beyond heterogeneous Fenton. *Journal of Water Process Engineering*, **2021**, 41, 102065	6.7	8
68	Valorization of Glycerol through the Enzymatic Synthesis of Acylglycerides with High Nutritional Value. *Catalysts*, **2020**, 10, 116	4	5
67	Application of metal complexes as biomimetic catalysts on glycerol oxidation. *Molecular Catalysis*, **2020**, 481, 110236	3.3	1
66	Novozym 435: the ?perfect? lipase immobilized biocatalyst?. *Catalysis Science and Technology*, **2019**, 9, 2380-2420	5.5	241
65	Magnetic solid-phase extraction: A nanotechnological strategy for cheese whey protein recovery. *Journal of Food Engineering*, **2019**, 263, 380-387	6	7
64	Optimization of the Enzymatic Synthesis of Pentyl Oleate with Lipase Immobilized onto Novel Structured Support. *Fermentation*, **2019**, 5, 48	4.7	12
63	A review of magnetic separation of whey proteins and potential application to whey proteins recovery, isolation and utilization. *Journal of Food Engineering*, **2019**, 246, 7-15	6	17
62	Simple and economical CALB/polyethylene/aluminum biocatalyst for fatty acid esterification. *Polymers for Advanced Technologies*, **2018**, 29, 1002-1006	3.2	1
61	Immobilization of CALB on lysine-modified magnetic nanoparticles: influence of the immobilization protocol. *Bioprocess and Biosystems Engineering*, **2018**, 41, 171-184	3.7	12
60	Burkholderia cepacia lipase: A versatile catalyst in synthesis reactions. *Biotechnology and Bioengineering*, **2018**, 115, 6-24	4.9	52
59	Influence of the nature of the support on the catalytic performance of CALB: experimental and theoretical evidence. *Catalysis Science and Technology*, **2018**, 8, 3513-3526	5.5	13
58	Kinetic modelling of the hematin catalysed decolourization of Orange II solutions. *Chemical Engineering Science*, **2017**, 161, 127-137	4.4	9
57	Molecular recognition of an acyl-enzyme intermediate on the lipase B from Candida antarctica. *Catalysis Science and Technology*, **2017**, 7, 1953-1964	5.5	6

56	Screening of Lipases with Unusual High Activity in the sn-2 Esterification of 1,3-Dicaprin under Mild Operating Conditions. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 5010-5017	5.7	8
55	Quantification of immobilized Candida antarctica lipase B (CALB) using ICP-AES combined with Bradford method. *Enzyme and Microbial Technology*, **2017**, 97, 97-103	3.8	26
54	What Problems Arise When Enzymatic Synthesis of Structured Di- and Triglycerides Is Performed?. *Springer Briefs in Molecular Science*, **2017**, 35-54	0.6	
53	Industrial Perspectives Which Have to Be Taken into Account to Scale from the Laboratory to Industry?. *Springer Briefs in Molecular Science*, **2017**, 63-72	0.6	
52	Literature Review: What Has Been Explored About Enzymatic Synthesis of ST and SD?. *Springer Briefs in Molecular Science*, **2017**, 17-34	0.6	
51	Self Diffusivity of n-Dodecane and Benzothiophene in ZSM-5 Zeolites. Its Significance for a New Catalytic Light Diesel Desulfurization Process. *International Journal of Chemical Reactor Engineering* , **2016**, 14, 737-748	1.2	2
50	An insight on acyl migration in solvent-free ethanolysis of model triglycerides using Novozym 435. *Journal of Biotechnology*, **2016**, 220, 92-9	3.7	16
49	Towards a green enantiomeric esterification of R/S-ketoprofen: A theoretical and experimental investigation. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 118, 52-61		13
48	About the role of typical spacer/crosslinker on the design of efficient magnetic biocatalysts based on nanosized magnetite. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 122, 296-304		7
47	Nanosized magnetite in low cost materials for remediation of water polluted with toxic metals, azo- and antraquinonic dyes. *Frontiers of Environmental Science and Engineering*, **2015**, 9, 746-769	5.8	42
46	Modified chitosan as an economical support for hematin: application in the decolorization of anthraquinone and azo dyes. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 1665-1676	3.5	3
45	Separation of Acylglycerides Obtained by Enzymatic Esterification Using Solvent Extraction. *JAOCS, Journal of the American Oil ChemistsnSociety*, **2014**, 91, 261-270	1.8	3
44	Enzymatic synthesis of 1,3-dicaproyglycerol by esterification of glycerol with capric acid in an organic solvent system. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 100, 7-18		18
43	Fabrication of ferrogels using different magnetic nanoparticles and their performance on protein adsorption. *Polymer International*, **2014**, 63, 258-265	3.3	22
42	Development of a magnetic biocatalyst useful for the synthesis of ethyloleate. *Bioprocess and Biosystems Engineering*, **2014**, 37, 585-91	3.7	19
41	Cross-linked enzyme aggregates (CLEAs) of selected lipases: a procedure for the proper calculation of their recovered activity. *AMB Express*, **2013**, 3, 25	4.1	32
40	Study of the reaction mechanism of the transesterification of triglycerides catalyzed by zinc carboxylates. *Journal of Molecular Catalysis A*, **2013**, 377, 29-41		21
39	Preparation of iron oxide nanoparticles stabilized with biomolecules: experimental and mechanistic issues. *Acta Biomaterialia*, **2013**, 9, 4754-62	10.8	49

38	Chemical anchorage of polypropylene onto glass fibers: Effect on adhesion and mechanical properties of their composites. *International Journal of Adhesion and Adhesives*, **2013**, 43, 26-31	3.4	10
37	Experimental design and MM2 PM6 molecular modelling of hematin as a peroxidase-like catalyst in Alizarin Red S degradation. *Journal of Molecular Catalysis A*, **2012**, 355, 44-60		12
36	Supported biocatalysts for Alizarin and Eriochrome Blue Black R degradation using hydrogen peroxide. *Chemical Engineering Journal*, **2012**, 204-206, 65-71	14.7	7
35	Esterification of R/S-ketoprofen with 2-propanol as reactant and solvent catalyzed by Novozym 435 at selected conditions. *Journal of Molecular Catalysis B: Enzymatic*, **2012**, 83, 108-119		17
34	Evaluation of hematin-catalyzed Orange II degradation as a potential alternative to horseradish peroxidase. *International Biodeterioration and Biodegradation*, **2012**, 73, 60-72	4.8	11
33	Investigation of the causes of deactivation degradation of the commercial biocatalyst Novozym 435 in ethanol and ethanol aqueous media. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 71, 95-107		50
32	FTIR-ATR characterization of free Rhizomucor meihei lipase (RML), Lipozyme RM IM and chitosan-immobilized RML. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 72, 220-228		34
31	Influencia del Recubrimiento de las Fibras de Vidrio sobre la Efectividad de la Reacci de Copolimerizaci Propileno-Vidrio. *Informacion Tecnologica (discontinued)*, **2011**, 22, 77-82	0.9	
30	Explanation of experimental results of mixed micelles of homologous surfactants through a MM2 bidimensional modeling. *Journal of Physical Chemistry B*, **2010**, 114, 14924-33	3.4	5
29	Eriochrome Blue Black R and Fluorescein degradation by hydrogen peroxide oxidation with horseradish peroxidase and hematin as biocatalysts. *Journal of Molecular Catalysis B: Enzymatic*, **2010**, 66, 63-71		32
28	PLGA based drug delivery systems (DDS) for the sustained release of insulin: insight into the protein/polyester interactions and the insulin release behavior. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 1588-1596	3.5	18
27	Lipase-catalyzed acidolysis of tripalmitin with capric acid in organic solvent medium: Analysis of the effect of experimental conditions through factorial design and analysis of multiple responses. *Enzyme and Microbial Technology*, **2010**, 46, 419-29	3.8	16
26	Elimination of dyes from aqueous solutions using iron oxides and chitosan as adsorbents: a comparative study. *Quimica Nova*, **2009**, 32, 1239-1244	1.6	32
25	Molecular modeling of the mechanism of ethyl fatty ester synthesis catalyzed by lipases. Effects of structural water and ethanol initial co-adsorption with the fatty acid. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 61, 289-295		4
24	Enantioselective esterification of ibuprofen with ethanol as reactant and solvent catalyzed by immobilized lipase: experimental and molecular modeling aspects. *Journal of Chemical Technology and Biotechnology*, **2009**, 84, 1461-1473	3.5	48
23	Characterization and evaluation of supported rac-dimethylsilylenebis(indenyl)zirconium dichloride on ethylene polymerization. *Journal of Applied Polymer Science*, **2009**, 112, 563-571	2.9	4
22	The effect of pH in the adsorption of Alizarin and Eriochrome Blue Black R onto iron oxides. *Journal of Hazardous Materials*, **2009**, 168, 168-78	12.8	51
21	Partial hydrogenation of sunflower oil: Use of edible modifiers of the cis/trans-selectivity. *Journal of Molecular Catalysis A*, **2009**, 299, 88-92		14

20	Strengthening of polypropylene–glass fiber interface by direct metallocenic polymerization of propylene onto the fibers. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 1915-1923	8.4	30
19	Lipase-catalyzed copolymerization of lactic and glycolic acid with potential as drug delivery devices. *Bioprocess and Biosystems Engineering*, **2008**, 31, 499-508	3.7	10
18	Chemical grafting of metallocene-catalyzed functional polypropylene copolymer on glass substrates through surface modification. *Journal of Applied Polymer Science*, **2008**, 109, 2815-2822	2.9	6
17	Removal of Fluorescein using different iron oxides as adsorbents: effect of pH. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 71, 636-43	4.4	18
16	The interaction between water vapor and chitosan II: Computational study. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 315, 241-249	5.1	8
15	PLA nano- and microparticles for drug delivery: an overview of the methods of preparation. *Macromolecular Bioscience*, **2007**, 7, 767-83	5.5	238
14	Relation between lipase structures and their catalytic ability to hydrolyse triglycerides and phospholipids. *Enzyme and Microbial Technology*, **2007**, 41, 35-43	3.8	37
13	Adsorption of Alizarin, Eriochrome Blue Black R, and Fluorescein Using Different Iron Oxides as Adsorbents. *Industrial & Engineering Chemistry Research*, **2007**, 46, 8255-8263	3.9	36
12	Ethylene and Propylene Polymerization Using In Situ Supported Me2Si(Ind)2ZrCl2 Catalyst: Experimental and Theoretical Study. *Macromolecular Materials and Engineering*, **2006**, 291, 279-287	3.9	9
11	Efficiency of enzymatic and non-enzymatic catalysts in the synthesis of insoluble polyphenol and conductive polyaniline in water. *Biochemical Engineering Journal*, **2006**, 29, 191-203	4.2	15
10	Hydrogenation of edible oil over Pd catalysts: A combined theoretical and experimental study. *Journal of Molecular Catalysis A*, **2005**, 237, 67-79		25
9	Unusual volumetric and hydration behavior of the catanionic system sodium undecenoate: sodecyltrimethylammonium bromide. *Colloid and Polymer Science*, **2005**, 283, 1016-1024	2.4	9
8	Novel synthesis of polyethylene–poly(dimethylsiloxane) copolymers with a metallocene catalyst. *Journal of Polymer Science Part A*, **2004**, 42, 2462-2473	2.5	9
7	Synthesis of Polycaprolactone Using Free/Supported Enzymatic and Non-Enzymatic Catalysts. *Macromolecular Rapid Communications*, **2004**, 25, 2025-2028	4.8	16
6	UV/Visible Study of the Reaction of Oxidoreductases and Model Compounds with H2O2. *Macromolecular Bioscience*, **2003**, 3, 179-188	5.5	14
5	A Proposed Mechanism for Olefin Polymerization, 1. C2v, C2 and Cs Zirconocene Catalysts. *Macromolecular Theory and Simulations*, **2002**, 11, 250	1.5	7
4	A Proposed Mechanism for Olefin Polymerization, 2. EHMO and MM2 Study. *Macromolecular Theory and Simulations*, **2002**, 11, 267	1.5	6
3	Copolymerization of polypropylene and functionalized linear α-olefin onto glass fibers. *Journal of Applied Polymer Science*, **2001**, 81, 1266-1276	2.9	13

2 The Co-adsorption of tetramethylpiperidine and TiCl4 on MgCl2. A theoretical study of a Ziegler-Natta pre-catalyst. *Journal of Molecular Catalysis A*, **1997**, 122, 25-37 22

1 Comparative characterization of MgCl2/ethyl benzoate/TiCl4 and MgCl2/2,2,6,6 tetramethylpiperidine/TiCl4 Ziegler-Natta precatalysts. *Journal of Polymer Science Part A*, **1994**, 32, 1137-1147 25 6