MarÃ-a LujÃ¡n Ferreira

List of Publications by Year
in descending order

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74	2,052	304368	253896
papers	citations	22	43
		h-index	g-index

74	74	74	2769
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novozym 435: the â€œperfectâ€•lipase immobilized biocatalyst?. Catalysis Science and Technology, 2019, 9, 2380-2420.	2.1	393
2	PLA Nano- and Microparticles for Drug Delivery: An Overview of the Methods of Preparation. Macromolecular Bioscience, 2007, 7, 767-783.	2.1	269
3	Burkholderia cepacia lipase: A versatile catalyst in synthesis reactions. Biotechnology and Bioengineering, 2018, 115, 6-24.	1.7	83
4	The effect of pH in the adsorption of Alizarin and Eriochrome Blue Black R onto iron oxides. Journal of Hazardous Materials, 2009, 168, 168-178.	6.5	63
5	Investigation of the causes of deactivationâ€“degradation of the commercial biocatalyst NovozymÂ® 435 in ethanol and ethanolâ€“aqueous media. Journal of Molecular Catalysis B: Enzymatic, 2011, 71, 95-107.	1.8	61
6	Preparation of iron oxide nanoparticles stabilized with biomolecules: Experimental and mechanistic issues. Acta Biomaterialia, 2013, 9, 4754-4762.	4.1	61
7	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.	1.6	56
8	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.	3.3	51
9	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.	1.8	42
10	Adsorption of Alizarin, Eriochrome Blue Black R, and Fluorescein Using Different Iron Oxides as Adsorbents. Industrial & Engineering Chemistry Research, 2007, 46, 8255-8263.	1.8	41
11	Relation between lipase structures and their catalytic ability to hydrolyse triglycerides and phospholipids. Enzyme and Microbial Technology, 2007, 41, 35-43.	1.6	40
12	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.	1.8	40
13	Elimination of dyes from aqueous solutions using iron oxides and chitosan as adsorbents: a comparative study. Quimica Nova, 2009, 32, 1239-1244.	0.3	39
14	Cross-linked enzyme aggregates (CLEAs) of selected lipases: a procedure for the proper calculation of their recovered activity. AMB Express, 2013, 3, 25.	1.4	37
15	Quantification of immobilized Candida antarctica lipase B (CALB) using ICP-AES combined with Bradford method. Enzyme and Microbial Technology, 2017, 97, 97-103.	1.6	34
16	Strengthening of polypropyleneâ€“glass fiber interface by direct metallocenic polymerization of propylene onto the fibers. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1915-1923.	3.8	33
17	Hydrogenation of edible oil over Pd catalysts: A combined theoretical and experimental study. Journal of Molecular Catalysis A, 2005, 237, 67-79.	4.8	29
18	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.	2.7	28

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19	Study of the reaction mechanism of the transesterification of triglycerides catalyzed by zinc carboxylates. Journal of Molecular Catalysis A, 2013, 377, 29-41.	4.8	27
20	Potential applications of spent adsorbents and catalysts: Re-valorization of waste. Science of the Total Environment, 2022, 823, 153370.	3.9	25
21	Removal of Fluorescein using different iron oxides as adsorbents: Effect of pH. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 636-643.	2.0	24
22	The Co-adsorption of tetramethylpiperidine and TiCl4 on Î²-MgCl2. A theoretical study of a Ziegler-Natta pre-catalyst. Journal of Molecular Catalysis A, 1997, 122, 25-37.	4.8	23
23	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.	1.6	23
24	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.	1.8	23
25	Fabrication of ferrogels using different magnetic nanoparticles and their performance on protein adsorption. Polymer International, 2014, 63, 258-265.	1.6	23
26	An insight on acyl migration in solvent-free ethanolysis of model triglycerides using Novozym 435. Journal of Biotechnology, 2016, 220, 92-99.	1.9	22
27	Development of a magnetic biocatalyst useful for the synthesis of ethyloleate. Bioprocess and Biosystems Engineering, 2014, 37, 585-591.	1.7	21
28	Esterification of R/S-ketoprofen with 2-propanol as reactant and solvent catalyzed by NovozymÂ® 435 at selected conditions. Journal of Molecular Catalysis B: Enzymatic, 2012, 83, 108-119.	1.8	20
29	Synthesis of Polycaprolactone Using Free/Supported Enzymatic and Non-Enzymatic Catalysts. Macromolecular Rapid Communications, 2004, 25, 2025-2028.	2.0	18
30	Towards a green enantiomeric esterification of R/S-ketoprofen: A theoretical and experimental investigation. Journal of Molecular Catalysis B: Enzymatic, 2015, 118, 52-61.	1.8	18
31	Partial hydrogenation of sunflower oil: Use of edible modifiers of the cis/trans-selectivity. Journal of Molecular Catalysis A, 2009, 299, 88-92.	4.8	17
32	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, 419-429.	1.6	17
33	Experimental design and MM2â€“PM6 molecular modelling of hematin as a peroxidase-like catalyst in Alizarin Red S degradation. Journal of Molecular Catalysis A, 2012, 355, 44-60.	4.8	17
34	Immobilization of CALB on lysine-modified magnetic nanoparticles: influence of the immobilization protocol. Bioprocess and Biosystems Engineering, 2018, 41, 171-184.	1.7	17
35	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.	2.1	17
36	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.	1.8	16

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37	Copolymerization of polypropylene and functionalized linear ?-olefin onto glass fibers. Journal of Applied Polymer Science, 2001, 81, 1266-1276.	1.3	14
38	UV/Visible Study of the Reaction of Oxidoreductases and Model Compounds with H2O2. Macromolecular Bioscience, 2003, 3, 179-188.	2.1	14
39	Evaluation of hematin-catalyzed Orange II degradation as a potential alternative to horseradish peroxidase. International Biodeterioration and Biodegradation, 2012, 73, 60-72.	1.9	14
40	Lipase-catalyzed copolymerization of lactic and glycolic acid with potential as drug delivery devices. Bioprocess and Biosystems Engineering, 2008, 31, 499-508.	1.7	13
41	Kinetic modelling of the hematin catalysed decolourization of Orange II solutions. Chemical Engineering Science, 2017, 161, 127-137.	1.9	13
42	Optimization of the Enzymatic Synthesis of Pentyl Oleate with Lipase Immobilized onto Novel Structured Support. Fermentation, 2019, 5, 48.	1.4	13
43	Molecular recognition of an acylâ€“enzyme intermediate on the lipase B from Candida antarctica. Catalysis Science and Technology, 2017, 7, 1953-1964.	2.1	12
44	Production of Plant Proteases and New Biotechnological Applications: An Updated Review. ChemistryOpen, 2022, 11, e202200017.	0.9	12
45	Novel synthesis of polyethylene-poly(dimethylsiloxane) copolymers with a metallocene catalyst. Journal of Polymer Science Part A, 2004, 42, 2462-2473.	2.5	11
46	Ethylene and Propylene Polymerization Using In Situ Supported Me2Si(Ind)2ZrCl2 Catalyst: Experimental and Theoretical Study. Macromolecular Materials and Engineering, 2006, 291, 279-287.	1.7	11
47	Chemical grafting of metalloceneâ€catalyzed functional polypropylene copolymer on glass substrates through surface modification. Journal of Applied Polymer Science, 2008, 109, 2815-2822.	1.3	10
48	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.	1.4	10
49	Magnetic solid-phase extraction: A nanotechnological strategy for cheese whey protein recovery. Journal of Food Engineering, 2019, 263, 380-387.	2.7	10
50	Challenges of dye removal treatments based on IONzymes: Beyond heterogeneous Fenton. Journal of Water Process Engineering, 2021, 41, 102065.	2.6	10
51	Unusual volumetric and hydration behavior of the catanionic system sodium undecenoate: sodecyltrimethylammonium bromide. Colloid and Polymer Science, 2005, 283, 1016-1024.	1.0	9
52	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.	2.4	9
53	Valorization of Glycerol through the Enzymatic Synthesis of Acylglycerides with High Nutritional Value. Catalysts, 2020, 10, 116.	1.6	9
54	Immobilization and bioimprinting strategies to enhance the performance in organic medium of the metagenomic lipase LipC12. Journal of Biotechnology, 2021, 342, 13-27.	1.9	9

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55	A Proposed Mechanism for Olefin Polymerization, 1. C2v, C2 and Cs Zirconocene Catalysts. Macromolecular Theory and Simulations, 2002, 11, 250.	0.6	8
56	A Proposed Mechanism for Olefin Polymerization, 2. EHMO and MM2 Study. Macromolecular Theory and Simulations, 2002, 11, 267.	0.6	8
57	The interaction between water vapor and chitosan II: Computational study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 315, 241-249.	2.3	8
58	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.	1.8	8
59	Characterization and evaluation of supported racâ€dimethylsilylenebis(indenyl)zirconium dichloride on ethylene polymerization. Journal of Applied Polymer Science, 2009, 112, 563-571.	1.3	7
60	Supported biocatalysts for Alizarin and Eriochrome Blue Black R degradation using hydrogen peroxide. Chemical Engineering Journal, 2012, 204-206, 65-71.	6.6	7
61	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.	2.5	6
62	Explanation of Experimental Results of Mixed Micelles of Homologous Surfactants through a Mm2 Bidimensional Modeling. Journal of Physical Chemistry B, 2010, 114, 14924-14933.	1.2	6
63	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.	1.8	4
64	A Simple Molecular Model to Study the Substrate Diffusion into the Active Site of a Lipase-Catalyzed Esterification of Ibuprofen and Ketoprofen with Glycerol. Topics in Catalysis, 2022, 65, 944-956.	1.3	4
65	Separation of Acylglycerides Obtained by Enzymatic Esterification Using Solvent Extraction. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 261-270.	0.8	3
66	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.	1.6	3
67	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.	0.6	3
68	Low-cost nanoparticulate oxidation catalysts for the removal of azo and anthraquinic dyes. Journal of Environmental Health Science & Engineering, 2021, 19, 721-731.	1.4	2
69	Influencia del Recubrimiento de las Fibras de Vidrio sobre la Efectividad de la ReacciÃ³n de CopolimerizaciÃ³n Propileno-Vidrio. Informacion Tecnologica (discontinued), 2011, 22, 77-82.	0.1	1
70	Simple and economical <scp>CALB</scp>/polyethylene/aluminum biocatalyst for fatty acid esterification. Polymers for Advanced Technologies, 2018, 29, 1002-1006.	1.6	1
71	Application of metal complexes as biomimetic catalysts on glycerol oxidation. Molecular Catalysis, 2020, 481, 110236.	1.0	1
72	What Problems Arise When Enzymatic Synthesis of Structured Di- and Triglycerides Is Performed?. Springer Briefs in Molecular Science, 2017, , 35-54.	0.1	1

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73	Industrial Perspectives Which Have to Be Taken into Account to Scale from the Laboratory to Industry?. Springer Briefs in Molecular Science, 2017, , 63-72.	0.1	0
74	Literature Review: What Has Been Explored About Enzymatic Synthesis of ST and SD?. Springer Briefs in Molecular Science, 2017, , 17-34.	0.1	0