

MarÃ-a LujÃ;n Ferreira

List of Publications by Year in descending order

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304743
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all docs

74
docs citations

74
times ranked

2769
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential applications of spent adsorbents and catalysts: Re-valorization of waste. Science of the Total Environment, 2022, 823, 153370.	8.0	25
2	Production of Plant Proteases and New Biotechnological Applications: An Updated Review. ChemistryOpen, 2022, 11, e202200017.	1.9	12
3	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.	2.8	4
4	Low-cost nanoparticulate oxidation catalysts for the removal of azo and anthraquinic dyes. Journal of Environmental Health Science & Engineering, 2021, 19, 721-731.	3.0	2
5	Challenges of dye removal treatments based on IONzymes: Beyond heterogeneous Fenton. Journal of Water Process Engineering, 2021, 41, 102065.	5.6	10
6	Immobilization and bioimprinting strategies to enhance the performance in organic medium of the metagenomic lipase LipC12. Journal of Biotechnology, 2021, 342, 13-27.	3.8	9
7	Application of metal complexes as biomimetic catalysts on glycerol oxidation. Molecular Catalysis, 2020, 481, 110236.	2.0	1
8	Valorization of Glycerol through the Enzymatic Synthesis of Acylglycerides with High Nutritional Value. Catalysts, 2020, 10, 116.	3.5	9
9	Magnetic solid-phase extraction: A nanotechnological strategy for cheese whey protein recovery. Journal of Food Engineering, 2019, 263, 380-387.	5.2	10
10	Optimization of the Enzymatic Synthesis of Pentyl Oleate with Lipase Immobilized onto Novel Structured Support. Fermentation, 2019, 5, 48.	3.0	13
11	Novozym 435: the "perfect" lipase immobilized biocatalyst?. Catalysis Science and Technology, 2019, 9, 2380-2420.	4.1	393
12	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.	5.2	28
13	Simple and economical <scp>CALB</scp>/polyethylene/aluminum biocatalyst for fatty acid esterification. Polymers for Advanced Technologies, 2018, 29, 1002-1006.	3.2	1
14	Immobilization of CALB on lysine-modified magnetic nanoparticles: influence of the immobilization protocol. Bioprocess and Biosystems Engineering, 2018, 41, 171-184.	3.4	17
15	<i>Burkholderia cepacia</i> lipase: A versatile catalyst in synthesis reactions. Biotechnology and Bioengineering, 2018, 115, 6-24.	3.3	83
16	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.	4.1	17
17	Kinetic modelling of the hematin catalysed decolourization of Orange II solutions. Chemical Engineering Science, 2017, 161, 127-137.	3.8	13
18	Molecular recognition of an acylâ€ enzyme intermediate on the lipase B from Candida antarctica. Catalysis Science and Technology, 2017, 7, 1953-1964.	4.1	12

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19	Screening of Lipases with Unusual High Activity in the <i>sn</i> -2 Esterification of 1,3-Dicaprin under Mild Operating Conditions. Journal of Agricultural and Food Chemistry, 2017, 65, 5010-5017.	5.2	9
20	Quantification of immobilized <i>Candida antarctica</i> lipase B (CALB) using ICP-AES combined with Bradford method. Enzyme and Microbial Technology, 2017, 97, 97-103.	3.2	34
21	What Problems Arise When Enzymatic Synthesis of Structured Di- and Triglycerides Is Performed?. Springer Briefs in Molecular Science, 2017, , 35-54.	0.1	1
22	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
23	Literature Review: What Has Been Explored About Enzymatic Synthesis of ST and SD?. Springer Briefs in Molecular Science, 2017, , 17-34.	0.1	0
24	An insight on acyl migration in solvent-free ethanolysis of model triglycerides using Novozym 435. Journal of Biotechnology, 2016, 220, 92-99.	3.8	22
25	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.	1.1	3
26	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
27	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
28	Nanosized magnetite in low cost materials for remediation of water polluted with toxic metals, azo- and anthraquinonic dyes. Frontiers of Environmental Science and Engineering, 2015, 9, 746-769.	6.0	51
29	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.	3.2	3
30	Development of a magnetic biocatalyst useful for the synthesis of ethyl oleate. Bioprocess and Biosystems Engineering, 2014, 37, 585-591.	3.4	21
31	Separation of Acylglycerides Obtained by Enzymatic Esterification Using Solvent Extraction. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 261-270.	1.9	3
32	Enzymatic synthesis of 1,3-dicaproylglycerol 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
33	Fabrication of ferrogels using different magnetic nanoparticles and their performance on protein adsorption. Polymer International, 2014, 63, 258-265.	3.1	23
34	Cross-linked enzyme aggregates (CLEAs) of selected lipases: a procedure for the proper calculation of their recovered activity. AMB Express, 2013, 3, 25.	3.0	37
35	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
36	Preparation of iron oxide nanoparticles stabilized with biomolecules: Experimental and mechanistic issues. Acta Biomaterialia, 2013, 9, 4754-4762.	8.3	61

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37	Chemical anchorage of polypropylene onto glass fibers: Effect on adhesion and mechanical properties of their composites. <i>International Journal of Adhesion and Adhesives</i> , 2013, 43, 26-31.	2.9	10
38	Supported biocatalysts for Alizarin and Eriochrome Blue Black R degradation using hydrogen peroxide. <i>Chemical Engineering Journal</i> , 2012, 204-206, 65-71.	12.7	7
39	Esterification of R/S-ketoprofen with 2-propanol as reactant and solvent catalyzed by Novozym® 435 at selected conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 83, 108-119.	1.8	20
40	Evaluation of hematin-catalyzed Orange II degradation as a potential alternative to horseradish peroxidase. <i>International Biodeterioration and Biodegradation</i> , 2012, 73, 60-72.	3.9	14
41	Experimental design and MM2â€“PM6 molecular modelling of hematin as a peroxidase-like catalyst in Alizarin Red S degradation. <i>Journal of Molecular Catalysis A</i> , 2012, 355, 44-60.	4.8	17
42	Investigation of the causes of deactivationâ€“degradation of the commercial biocatalyst Novozym® 435 in ethanol and ethanolâ€“aqueous media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 71, 95-107.	1.8	61
43	FTIR-ATR characterization of free Rhizomucor meihei lipase (RML), Lipozyme RM IM and chitosan-immobilized RML. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 220-228.	1.8	40
44	Influencia del Recubrimiento de las Fibras de Vidrio sobre la Efectividad de la ReacciÃ³n de CopolimerizaciÃ³n Propileno-Vidrio. <i>Informacion Tecnologica (discontinued)</i> , 2011, 22, 77-82.	0.3	1
45	Eriochrome Blue Black R and Fluorescein degradation by hydrogen peroxide oxidation with horseradish peroxidase and hematin as biocatalysts. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 66, 63-71.	1.8	42
46	PLGA based drug delivery systems (DDS) for the sustained release of insulin: insight into the protein/polyester interactions and the insulin release behavior. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1588-1596.	3.2	23
47	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. <i>Enzyme and Microbial Technology</i> , 2010, 46, 419-429.	3.2	17
48	Explanation of Experimental Results of Mixed Micelles of Homologous Surfactants through a Mm2 Bidimensional Modeling. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14924-14933.	2.6	6
49	Elimination of dyes from aqueous solutions using iron oxides and chitosan as adsorbents: a comparative study. <i>Quimica Nova</i> , 2009, 32, 1239-1244.	0.3	39
50	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. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 289-295.	1.8	4
51	Enantioselective esterification of ibuprofen with ethanol as reactant and solvent catalyzed by immobilized lipase: experimental and molecular modeling aspects. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1461-1473.	3.2	56
52	Characterization and evaluation of supported <i>rac</i>-dimethylsilylenebis(indenyl)zirconium dichloride on ethylene polymerization. <i>Journal of Applied Polymer Science</i> , 2009, 112, 563-571.	2.6	7
53	The effect of pH in the adsorption of Alizarin and Eriochrome Blue Black R onto iron oxides. <i>Journal of Hazardous Materials</i> , 2009, 168, 168-178.	12.4	63
54	Partial hydrogenation of sunflower oil: Use of edible modifiers of the cis/trans-selectivity. <i>Journal of Molecular Catalysis A</i> , 2009, 299, 88-92.	4.8	17

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55	Lipase-catalyzed copolymerization of lactic and glycolic acid with potential as drug delivery devices. Bioprocess and Biosystems Engineering, 2008, 31, 499-508.	3.4	13
56	Chemical grafting of metallocene-catalyzed functional polypropylene copolymer on glass substrates through surface modification. Journal of Applied Polymer Science, 2008, 109, 2815-2822.	2.6	10
57	Removal of Fluorescein using different iron oxides as adsorbents: Effect of pH. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 636-643.	3.9	24
58	The interaction between water vapor and chitosan II: Computational study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 315, 241-249.	4.7	8
59	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.	7.6	33
60	Adsorption of Alizarin, Eriochrome Blue Black R, and Fluorescein Using Different Iron Oxides as Adsorbents. Industrial & Engineering Chemistry Research, 2007, 46, 8255-8263.	3.7	41
61	PLA Nano- and Microparticles for Drug Delivery: An Overview of the Methods of Preparation. Macromolecular Bioscience, 2007, 7, 767-783.	4.1	269
62	Relation between lipase structures and their catalytic ability to hydrolyse triglycerides and phospholipids. Enzyme and Microbial Technology, 2007, 41, 35-43.	3.2	40
63	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.	3.6	16
64	Ethylene and Propylene Polymerization Using In Situ Supported Me ₂ Si(Ind) ₂ ZrCl ₂ Catalyst: Experimental and Theoretical Study. Macromolecular Materials and Engineering, 2006, 291, 279-287.	3.6	11
65	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
66	Unusual volumetric and hydration behavior of the catanionic system sodium undecenoate: sodecyltrimethylammonium bromide. Colloid and Polymer Science, 2005, 283, 1016-1024.	2.1	9
67	Novel synthesis of polyethylene-poly(dimethylsiloxane) copolymers with a metallocene catalyst. Journal of Polymer Science Part A, 2004, 42, 2462-2473.	2.3	11
68	Synthesis of Polycaprolactone Using Free/Supported Enzymatic and Non-Enzymatic Catalysts. Macromolecular Rapid Communications, 2004, 25, 2025-2028.	3.9	18
69	UV/Visible Study of the Reaction of Oxidoreductases and Model Compounds with H ₂ O ₂ . Macromolecular Bioscience, 2003, 3, 179-188.	4.1	14
70	A Proposed Mechanism for Olefin Polymerization, 1. C _{2v} , C ₂ and Cs Zirconocene Catalysts. Macromolecular Theory and Simulations, 2002, 11, 250.	1.4	8
71	A Proposed Mechanism for Olefin Polymerization, 2. EHMO and MM2 Study. Macromolecular Theory and Simulations, 2002, 11, 267.	1.4	8
72	Copolymerization of polypropylene and functionalized linear α -olefin onto glass fibers. Journal of Applied Polymer Science, 2001, 81, 1266-1276.	2.6	14

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73	The Co-adsorption of tetramethylpiperidine and TiCl_4 on $\text{I}^2\text{-MgCl}_2$. A theoretical study of a Ziegler-Natta pre-catalyst. Journal of Molecular Catalysis A, 1997, 122, 25-37.	4.8	23
74	Comparative characterization of MgCl_2 /ethyl benzoate/ TiCl_4 and MgCl_2 /2,2,6,6-tetramethylpiperidine/ TiCl_4 Ziegler-Natta precatalysts. Journal of Polymer Science Part A, 1994, 32, 1137-1147.	2.3	6