

MarÃ-a LujÃ;n Ferreira

List of Publications by Year in descending order

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papers

2,052
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304368

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docs citations

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times ranked

2769
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential applications of spent adsorbents and catalysts: Re-valorization of waste. <i>Science of the Total Environment</i> , 2022, 823, 153370.	3.9	25
2	Production of Plant Proteases and New Biotechnological Applications: An Updated Review. <i>ChemistryOpen</i> , 2022, 11, e202200017.	0.9	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. <i>Topics in Catalysis</i> , 2022, 65, 944-956.	1.3	4
4	Low-cost nanoparticulate oxidation catalysts for the removal of azo and anthraquinic dyes. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 721-731.	1.4	2
5	Challenges of dye removal treatments based on IONzymes: Beyond heterogeneous Fenton. <i>Journal of Water Process Engineering</i> , 2021, 41, 102065.	2.6	10
6	Immobilization and bioimprinting strategies to enhance the performance in organic medium of the metagenomic lipase LipC12. <i>Journal of Biotechnology</i> , 2021, 342, 13-27.	1.9	9
7	Application of metal complexes as biomimetic catalysts on glycerol oxidation. <i>Molecular Catalysis</i> , 2020, 481, 110236.	1.0	1
8	Valorization of Glycerol through the Enzymatic Synthesis of Acylglycerides with High Nutritional Value. <i>Catalysts</i> , 2020, 10, 116.	1.6	9
9	Magnetic solid-phase extraction: A nanotechnological strategy for cheese whey protein recovery. <i>Journal of Food Engineering</i> , 2019, 263, 380-387.	2.7	10
10	Optimization of the Enzymatic Synthesis of Pentyl Oleate with Lipase Immobilized onto Novel Structured Support. <i>Fermentation</i> , 2019, 5, 48.	1.4	13
11	Novozym 435: the "perfect" lipase immobilized biocatalyst?. <i>Catalysis Science and Technology</i> , 2019, 9, 2380-2420.	2.1	393
12	A review of magnetic separation of whey proteins and potential application to whey proteins recovery, isolation and utilization. <i>Journal of Food Engineering</i> , 2019, 246, 7-15.	2.7	28
13	Simple and economical <scp>CALB</scp>/polyethylene/aluminum biocatalyst for fatty acid esterification. <i>Polymers for Advanced Technologies</i> , 2018, 29, 1002-1006.	1.6	1
14	Immobilization of CALB on lysine-modified magnetic nanoparticles: influence of the immobilization protocol. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 171-184.	1.7	17
15	<i>Burkholderia cepacia</i> lipase: A versatile catalyst in synthesis reactions. <i>Biotechnology and Bioengineering</i> , 2018, 115, 6-24.	1.7	83
16	Influence of the nature of the support on the catalytic performance of CALB: experimental and theoretical evidence. <i>Catalysis Science and Technology</i> , 2018, 8, 3513-3526.	2.1	17
17	Kinetic modelling of the hematin catalysed decolourization of Orange II solutions. <i>Chemical Engineering Science</i> , 2017, 161, 127-137.	1.9	13
18	Molecular recognition of an acyl"enzyme intermediate on the lipase B from <i>Candida antarctica</i> . <i>Catalysis Science and Technology</i> , 2017, 7, 1953-1964.	2.1	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. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 5010-5017.	2.4	9
20	Quantification of immobilized <i>Candida antarctica</i> lipase B (CALB) using ICP-AES combined with Bradford method. <i>Enzyme and Microbial Technology</i> , 2017, 97, 97-103.	1.6	34
21	What Problems Arise When Enzymatic Synthesis of Structured Di- and Triglycerides Is Performed?. <i>Springer Briefs in Molecular Science</i> , 2017, , 35-54.	0.1	1
22	Industrial Perspectives Which Have to Be Taken into Account to Scale from the Laboratory to Industry?. <i>Springer Briefs in Molecular Science</i> , 2017, , 63-72.	0.1	0
23	Literature Review: What Has Been Explored About Enzymatic Synthesis of ST and SD?. <i>Springer Briefs in Molecular Science</i> , 2017, , 17-34.	0.1	0
24	An insight on acyl migration in solvent-free ethanolsis of model triglycerides using Novozym 435. <i>Journal of Biotechnology</i> , 2016, 220, 92-99.	1.9	22
25	Self Diffusivity of n-Dodecane and Benzothiophene in ZSM-5 Zeolites. Its Significance for a New Catalytic Light Diesel Desulfurization Process. <i>International Journal of Chemical Reactor Engineering</i> , 2016, 14, 737-748.	0.6	3
26	Towards a green enantiomeric esterification of <i>R/S</i> -ketoprofen: A theoretical and experimental investigation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 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. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 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. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 746-769.	3.3	51
29	Modified chitosan as an economical support for hematin: application in the decolorization of anthraquinone and azo dyes. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1665-1676.	1.6	3
30	Development of a magnetic biocatalyst useful for the synthesis of ethylolate. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 585-591.	1.7	21
31	Separation of Acylglycerides Obtained by Enzymatic Esterification Using Solvent Extraction. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2014, 91, 261-270.	0.8	3
32	Enzymatic synthesis of 1,3-dicaproyglycerol by esterification of glycerol with capric acid in an organic solvent system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 100, 7-18.	1.8	23
33	Fabrication of ferrogels using different magnetic nanoparticles and their performance on protein adsorption. <i>Polymer International</i> , 2014, 63, 258-265.	1.6	23
34	Cross-linked enzyme aggregates (CLEAs) of selected lipases: a procedure for the proper calculation of their recovered activity. <i>AMB Express</i> , 2013, 3, 25.	1.4	37
35	Study of the reaction mechanism of the transesterification of triglycerides catalyzed by zinc carboxylates. <i>Journal of Molecular Catalysis A</i> , 2013, 377, 29-41.	4.8	27
36	Preparation of iron oxide nanoparticles stabilized with biomolecules: Experimental and mechanistic issues. <i>Acta Biomaterialia</i> , 2013, 9, 4754-4762.	4.1	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.	1.4	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.	6.6	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.	1.9	14
41	Experimental design and MM2-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 deactivation-degradation of the commercial biocatalyst Novozym® 435 in ethanol and ethanol-aqueous media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 71, 95-107.	1.8	61
43	FTIR-ATR characterization of free <i>Rhizomucor meihei</i> 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 Reacci3n de Copolimerizaci3n Propileno-Vidrio. <i>Informacion Tecnologica (discontinued)</i> , 2011, 22, 77-82.	0.1	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.	1.6	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.	1.6	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.	1.2	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.	1.6	56
52	Characterization and evaluation of supported dimethylsilylenebis(indenyl)zirconium dichloride on ethylene polymerization. <i>Journal of Applied Polymer Science</i> , 2009, 112, 563-571.	1.3	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.	6.5	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. <i>Bioprocess and Biosystems Engineering</i> , 2008, 31, 499-508.	1.7	13
56	Chemical grafting of metallocene-catalyzed functional polypropylene copolymer on glass substrates through surface modification. <i>Journal of Applied Polymer Science</i> , 2008, 109, 2815-2822.	1.3	10
57	Removal of Fluorescein using different iron oxides as adsorbents: Effect of pH. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 636-643.	2.0	24
58	The interaction between water vapor and chitosan II: Computational study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 315, 241-249.	2.3	8
59	Strengthening of polypropylene-glass fiber interface by direct metallocenic polymerization of propylene onto the fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 1915-1923.	3.8	33
60	Adsorption of Alizarin, Eriochrome Blue Black R, and Fluorescein Using Different Iron Oxides as Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 8255-8263.	1.8	41
61	PLA Nano- and Microparticles for Drug Delivery: An Overview of the Methods of Preparation. <i>Macromolecular Bioscience</i> , 2007, 7, 767-783.	2.1	269
62	Relation between lipase structures and their catalytic ability to hydrolyse triglycerides and phospholipids. <i>Enzyme and Microbial Technology</i> , 2007, 41, 35-43.	1.6	40
63	Efficiency of enzymatic and non-enzymatic catalysts in the synthesis of insoluble polyphenol and conductive polyaniline in water. <i>Biochemical Engineering Journal</i> , 2006, 29, 191-203.	1.8	16
64	Ethylene and Propylene Polymerization Using In Situ Supported Me ₂ Si(Ind) ₂ ZrCl ₂ Catalyst: Experimental and Theoretical Study. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 279-287.	1.7	11
65	Hydrogenation of edible oil over Pd catalysts: A combined theoretical and experimental study. <i>Journal of Molecular Catalysis A</i> , 2005, 237, 67-79.	4.8	29
66	Unusual volumetric and hydration behavior of the catanionic system sodium undecenoate: sodocyltrimethylammonium bromide. <i>Colloid and Polymer Science</i> , 2005, 283, 1016-1024.	1.0	9
67	Novel synthesis of polyethylene-poly(dimethylsiloxane) copolymers with a metallocene catalyst. <i>Journal of Polymer Science Part A</i> , 2004, 42, 2462-2473.	2.5	11
68	Synthesis of Polycaprolactone Using Free/Supported Enzymatic and Non-Enzymatic Catalysts. <i>Macromolecular Rapid Communications</i> , 2004, 25, 2025-2028.	2.0	18
69	UV/Visible Study of the Reaction of Oxidoreductases and Model Compounds with H ₂ O ₂ . <i>Macromolecular Bioscience</i> , 2003, 3, 179-188.	2.1	14
70	A Proposed Mechanism for Olefin Polymerization, 1. C _{2v} , C ₂ and C _s Zirconocene Catalysts. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 250.	0.6	8
71	A Proposed Mechanism for Olefin Polymerization, 2. EHMO and MM ₂ Study. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 267.	0.6	8
72	Copolymerization of polypropylene and functionalized linear α -olefin onto glass fibers. <i>Journal of Applied Polymer Science</i> , 2001, 81, 1266-1276.	1.3	14

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73	The Co-adsorption of tetramethylpiperidine and TiCl ₄ on \hat{I}^2 -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.	2.5	6