Sara Arana-PeÃ±a

List of Publications by Year
in descending order

24 papers	1,177 citations	331259 21 h-index	610482 24 g-index
24 all docs	24 docs citations	24 times ranked	748 citing authors

#	Article	IF	Citations
1	Enzyme co-immobilization: Always the biocatalyst designers' choiceâ€¦or not?. Biotechnology Advances, 2021, 51, 107584.	6.0	152
2	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. Renewable Energy, 2021, 164, 1566-1587.	4.3	88
3	Immobilization of lipases via interfacial activation on hydrophobic supports: Production of biocatalysts libraries by altering the immobilization conditions. Catalysis Today, 2021, 362, 130-140.	2.2	83
4	Effects of Enzyme Loading and Immobilization Conditions on the Catalytic Features of Lipase From Pseudomonas fluorescens Immobilized on Octyl-Agarose Beads. Frontiers in Bioengineering and Biotechnology, 2020, 8, 36.	2.0	77
5	New applications of glyoxyl-octyl agarose in lipases co-immobilization: Strategies to reuse the most stable lipase. International Journal of Biological Macromolecules, 2019, 131, 989-997.	3.6	73
6	Immobilization/Stabilization of Ficin Extract on Glutaraldehyde-Activated Agarose Beads. Variables That Control the Final Stability and Activity in Protein Hydrolyses. Catalysts, 2018, 8, 149.	1.6	69
7	One Pot Use of Combilipases for Full Modification of Oils and Fats: Multifunctional and Heterogeneous Substrates. Catalysts, 2020, 10, 605.	1.6	55
8	Immobilization of Eversa Lipase on Octyl Agarose Beads and Preliminary Characterization of Stability and Activity Features. Catalysts, 2018, 8, 511.	1.6	49
9	Modulating the properties of the lipase from Thermomyces lanuginosus immobilized on octyl agarose beads by altering the immobilization conditions. Enzyme and Microbial Technology, 2020, 133, 109461.	1.6	49
10	Immobilization on octylâ€agarose beads and some catalytic features of commercial preparations of lipase a from <i>Candida antarctica</i> (Novocor ADL): Comparison with immobilized lipase B from <i>Candida antarctica</i>. Biotechnology Progress, 2019, 35, e2735.	1.3	44
11	Immobilization of lipase from Pseudomonas fluorescens on glyoxyl-octyl-agarose beads: Improved stability and reusability. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 741-747.	1.1	43
12	Increasing the Enzyme Loading Capacity of Porous Supports by a Layer-by-Layer Immobilization Strategy Using PEI as Glue. Catalysts, 2019, 9, 576.	1.6	39
13	Reuse of Lipase from Pseudomonas fluorescens via Its Step-by-Step Coimmobilization on Glyoxyl-Octyl Agarose Beads with Least Stable Lipases. Catalysts, 2019, 9, 487.	1.6	39
14	Coimmobilization of different lipases: Simple layer by layer enzyme spatial ordering. International Journal of Biological Macromolecules, 2020, 145, 856-864.	3.6	37
15	Advantages of Supports Activated with Divinyl Sulfone in Enzyme Coimmobilization: Possibility of Multipoint Covalent Immobilization of the Most Stable Enzyme and Immobilization via Ion Exchange of the Least Stable Enzyme. ACS Sustainable Chemistry and Engineering, 2021, 9, 7508-7518.	3.2	37
16	Influence of phosphate anions on the stability of immobilized enzymes. Effect of enzyme nature, immobilization protocol and inactivation conditions. Process Biochemistry, 2020, 95, 288-296.	1.8	36
17	Enzymatic synthesis of biolubricants from by-product of soybean oil processing catalyzed by different biocatalysts of Candida rugosa lipase. Catalysis Today, 2021, 362, 122-129.	2.2	36
18	Use of polyethylenimine to produce immobilized lipase multilayers biocatalysts with very high volumetric activity using octyl-agarose beads: Avoiding enzyme release during multilayer production. Enzyme and Microbial Technology, 2020, 137, 109535.	1.6	34

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19	Multi-Combilipases: Co-Immobilizing Lipases with Very Different Stabilities Combining Immobilization via Interfacial Activation and Ion Exchange. The Reuse of the Most Stable Co-Immobilized Enzymes after Inactivation of the Least Stable Ones. Catalysts, 2020, 10, 1207.	1.6	28
20	The combination of covalent and ionic exchange immobilizations enables the coimmobilization on vinyl sulfone activated supports and the reuse of the most stable immobilized enzyme. International Journal of Biological Macromolecules, 2022, 199, 51-60.	3.6	27
21	Solid phase chemical modification of agarose glyoxyl-ficin: Improving activity and stability properties by amination and modification with glutaraldehyde. Process Biochemistry, 2018, 73, 109-116.	1.8	26
22	Immobilized Biocatalysts of EversaÂ® Transform 2.0 and Lipase from Thermomyces Lanuginosus: Comparison of Some Properties and Performance in Biodiesel Production. Catalysts, 2020, 10, 738.	1.6	22
23	Further Stabilization of Alcalase Immobilized on Glyoxyl Supports: Amination Plus Modification with Glutaraldehyde. Molecules, 2018, 23, 3188.	1.7	17
24	Effect of Concentrated Salts Solutions on the Stability of Immobilized Enzymes: Influence of Inactivation Conditions and Immobilization Protocol. Molecules, 2021, 26, 968.	1.7	17