

Susana Velasco-Lozano

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Co-immobilized Phosphorylated Cofactors and Enzymes as Self-Sufficient Heterogeneous Biocatalysts for Chemical Processes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 771-775.	13.8	159
2	Self-Sufficient Flow-Biocatalysis by Coimmobilization of Pyridoxal 5'-Phosphate and α -Transaminases onto Porous Carriers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13151-13159.	6.7	80
3	Cross-linked enzyme aggregates (CLEA) in enzyme improvement – a review. <i>Biocatalysis</i> , 2016, 1, .	2.3	68
4	Oxidation of phenolic compounds catalyzed by immobilized multi-enzyme systems with integrated hydrogen peroxide production. <i>Green Chemistry</i> , 2014, 16, 303-311.	9.0	66
5	Understanding the functional properties of bio-inorganic nanoflowers as biocatalysts by deciphering the metal-binding sites of enzymes. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4478-4486.	5.8	55
6	Carrier-Free Immobilization of Lipase from <i>Candida rugosa</i> with Polyethyleneimines by Carboxyl-Activated Cross-Linking. <i>Biomacromolecules</i> , 2014, 15, 1896-1903.	5.4	54
7	Effect of high salt concentrations on the stability of immobilized lipases: Dramatic deleterious effects of phosphate anions. <i>Process Biochemistry</i> , 2017, 62, 128-134.	3.7	50
8	Wiring step-wise reactions with immobilized multi-enzyme systems. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 184-194.	2.0	40
9	Co-immobilization and Colocalization of Multi-Enzyme Systems for the Cell-Free Biosynthesis of Aminoalcohols. <i>ChemCatChem</i> , 2020, 12, 3030-3041.	3.7	29
10	Sustainable and Continuous Synthesis of Enantiopure α -Amino Acids by Using a Versatile Immobilised Multienzyme System. <i>ChemBioChem</i> , 2018, 19, 395-403.	2.6	25
11	Improving enantioselectivity of lipase from <i>Candida rugosa</i> by carrier-bound and carrier-free immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 130, 32-39.	1.8	20
12	Production of Thermostable Lipase by <i>Thermomyces lanuginosus</i> on Solid-State Fermentation: Selective Hydrolysis of Sardine Oil. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 1859-1872.	2.9	19
13	Immobilization Screening and Characterization of an Alcohol Dehydrogenase and its Application to the Multi-Enzymatic Selective Oxidation of 1, ω -Diols. <i>Frontiers in Catalysis</i> , 2021, 1, .	3.9	19
14	Carrier-bound and carrier-free immobilization of type A feruloyl esterase from <i>Aspergillus niger</i> : Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates. <i>Journal of Biotechnology</i> , 2020, 316, 6-16.	3.8	18
15	Self-sufficient asymmetric reduction of β -ketoesters catalysed by a novel and robust thermophilic alcohol dehydrogenase co-immobilised with NADH. <i>Catalysis Science and Technology</i> , 2021, 11, 3217-3230.	4.1	18
16	Co-immobilized Phosphorylated Cofactors and Enzymes as Self-Sufficient Heterogeneous Biocatalysts for Chemical Processes. <i>Angewandte Chemie</i> , 2017, 129, 789-793.	2.0	16
17	Stabilization of α -transaminase from <i>Pseudomonas fluorescens</i> by immobilization techniques. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4318-4328.	7.5	14
18	Chitosan-based CLEAs from <i>Aspergillus niger</i> type A feruloyl esterase: high-productivity biocatalyst for alkyl ferulate synthesis. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 10033-10045.	3.6	13

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19	Immobilization of Enzymes as Cross-Linked Enzyme Aggregates: General Strategy to Obtain Robust Biocatalysts. <i>Methods in Molecular Biology</i> , 2020, 2100, 345-361.	0.9	13
20	Lipases Production by Solid-State Fermentation: The Case of <i>Rhizopus homothallicus</i> in Perlite. <i>Methods in Molecular Biology</i> , 2012, 861, 227-237.	0.9	11
21	Biocatalytic Protein-Based Materials for Integration into Energy Devices. <i>ChemBioChem</i> , 2019, 20, 1977-1985.	2.6	11
22	One-pot biotransformation of glycerol into serinol catalysed by biocatalytic composites made of whole cells and immobilised enzymes. <i>Green Chemistry</i> , 2021, 23, 1140-1146.	9.0	10
23	Selective oxidation of alkyl and aryl glyceryl monoethers catalysed by an engineered and immobilised glycerol dehydrogenase. <i>Chemical Science</i> , 2020, 11, 12009-12020.	7.4	9
24	Hydrolysis and oxidation of racemic esters into prochiral ketones catalyzed by a consortium of immobilized enzymes. <i>Biochemical Engineering Journal</i> , 2016, 112, 136-142.	3.6	8
25	Deciphering the Effect of Microbead Size Distribution on the Kinetics of Heterogeneous Biocatalysts through Single-Particle Analysis Based on Fluorescence Microscopy. <i>Catalysts</i> , 2019, 9, 896.	3.5	8
26	Cell-Free Biosynthesis of γ -Hydroxy Acids Boosted by a Synergistic Combination of Alcohol Dehydrogenases. <i>ChemSusChem</i> , 2022, 15, .	6.8	8
27	Force spectroscopy predicts thermal stability of immobilized proteins by measuring microbead mechanics. <i>Soft Matter</i> , 2016, 12, 8718-8725.	2.7	7
28	Different Covalent Immobilizations Modulate Lipase Activities of <i>Hypocrea pseudokoningii</i> . <i>Molecules</i> , 2017, 22, 1448.	3.8	6
29	Coupling Enzymes and Inorganic Piezoelectric Materials for Electricity Production from Renewable Fuels. <i>ACS Applied Energy Materials</i> , 2018, 1, 2032-2040.	5.1	6
30	Selective Immobilization of Fluorescent Proteins for the Fabrication of Photoactive Materials. <i>Molecules</i> , 2019, 24, 2775.	3.8	6
31	Metal substrate catalysis in the confined space for platinum drug delivery. <i>Chemical Science</i> , 2021, 13, 59-67.	7.4	5
32	Catalytic profiles of lipolytic biocatalysts produced by filamentous fungi. <i>Biocatalysis and Biotransformation</i> , 2012, 30, 459-468.	2.0	3