

Alejandro H Orrego

List of Publications by Year in descending order

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papers

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557
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing continuous flow reaction of xylan hydrolysis for xylooligosaccharides production in packed-bed reactors using xylanase immobilized on methacrylic polymer-based supports. <i>Bioresource Technology</i> , 2018, 266, 249-258.	9.7	41
2	Stabilization of Enzymes by Multipoint Covalent Attachment on Aldehyde-Supports: 2-Picoline Borane as an Alternative Reducing Agent. <i>Catalysts</i> , 2018, 8, 333.	3.6	41
3	Stabilization of Immobilized Lipases by Intense Intramolecular Cross-Linking of Their Surfaces by Using Aldehyde-Dextran Polymers. <i>International Journal of Molecular Sciences</i> , 2018, 19, 553.	4.2	36
4	Turn-on Fluorescent Biosensors for Imaging Hypoxia-like Conditions in Living Cells. <i>Journal of the American Chemical Society</i> , 2022, 144, 8185-8193.	14.6	31
5	Stabilization of multimeric sucrose synthase from <i>Acidithiobacillus caldus</i> via immobilization and post-immobilization techniques for synthesis of UDP-glucose. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 773-787.	3.7	27
6	Coimmobilization and colocalization of a glycosyltransferase and a sucrose synthase greatly improves the recycling of UDP-glucose: Glycosylation of resveratrol 3-O- β -D-glucoside. <i>International Journal of Biological Macromolecules</i> , 2020, 157, 510-521.	7.7	26
7	One-Step Synthesis of α -Keto Acids from Racemic Amino Acids by A Versatile Immobilized Multienzyme Cell-free System. <i>ChemCatChem</i> , 2018, 10, 3002-3011.	3.8	22
8	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.	4.2	21
9	Functionalization of Porous Cellulose with Glyoxyl Groups as a Carrier for Enzyme Immobilization and Stabilization. <i>Biomacromolecules</i> , 2021, 22, 927-937.	5.6	20
10	Two-Photon Fluorescence Anisotropy Imaging to Elucidate the Dynamics and the Stability of Immobilized Proteins. <i>Journal of Physical Chemistry B</i> , 2016, 120, 485-491.	2.7	18
11	Immobilization-stabilization of a complex multimeric sucrose synthase from <i>Nitrosomonas europaea</i> . Synthesis of UDP-glucose. <i>Enzyme and Microbial Technology</i> , 2017, 105, 51-58.	3.3	17
12	High stabilization of immobilized <i>Rhizomucor miehei</i> lipase by additional coating with hydrophilic crosslinked polymers: Poly-allylamine/Aldehyde-dextran. <i>Process Biochemistry</i> , 2020, 92, 156-163.	3.8	17
13	High Stabilization of Enzymes Immobilized on Rigid Hydrophobic Glyoxyl-Supports: Generation of Hydrophilic Environments on Support Surfaces. <i>Catalysts</i> , 2020, 10, 676.	3.6	13
14	Co-Immobilization and Co-Localization of Multi-Enzyme Systems on Porous Materials. <i>Methods in Molecular Biology</i> , 2020, 2100, 297-308.	0.0	9
15	Immobilization and Stabilization of Beta-Xylosidases from <i>Penicillium janczewskii</i> . <i>Applied Biochemistry and Biotechnology</i> , 2017, 182, 349-366.	3.0	7
16	Stabilization of Glycosylated β -Glucosidase by Intramolecular Crosslinking Between Oxidized Glycosidic Chains and Lysine Residues. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 325-337.	3.0	7
17	Self-Sufficient Heterogeneous Biocatalysis through Boronic Acid-Diol Complexation of Adenylated Cofactors. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 14409-14421.	6.9	6
18	Immobilization of Enzymes on Hetero-Functional Supports: Physical Adsorption Plus Additional Covalent Immobilization. <i>Methods in Molecular Biology</i> , 2020, 2100, 159-174.	0.0	5

#	ARTICLE	IF	CITATIONS
19	Ultrahigh-Throughput Screening of Metagenomic Libraries Using Droplet Microfluidics. <i>Methods in Molecular Biology</i> , 2022, 2397, 19-32.	0.0	5
20	Surpassing Substrate-Enzyme Competition by Compartmentalization. <i>ACS Catalysis</i> , 2023, 13, 11441-11454.	11.7	5
21	Coenzyme A Thioester Intermediates as Platform Molecules in Cell-Free Chemical Biomanufacturing. <i>ChemBioChem</i> , 2024, 25, .	2.8	1
22	Enantiodivergent biosynthesis of β^2 -hydroxy esters by self-sufficient heterogeneous biocatalysts in a continuous flow. <i>Green Chemistry</i> , 2024, 26, 4563-4573.	9.4	1