

Aurelio Hidalgo

List of Publications by Year in descending order

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65
papers

3,395
citations

136950

32
h-index

138484

58
g-index

66
all docs

66
docs citations

66
times ranked

3407
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrahigh-Throughput Screening of Metagenomic Libraries Using Droplet Microfluidics. <i>Methods in Molecular Biology</i> , 2022, 2397, 19-32.	0.9	3
2	A Coupled Ketoreductase-Dehydrogenase Assay for the Detection of Polyethylene Terephthalate-Hydrolyzing Activity. <i>ChemSusChem</i> , 2022, 15, .	6.8	3
3	Biochemical and Structural Characterization of a novel thermophilic esterase EstD11 provide catalytic insights for the HSL family. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 1214-1232.	4.1	17
4	Insights into the molecular determinants of thermal stability in halohydrin dehalogenase HheD2. <i>FEBS Journal</i> , 2021, 288, 4683-4701.	4.7	5
5	Thermostability Engineering of a Class II Pyruvate Aldolase from <i>Escherichia coli</i> by in Vivo Folding Interference. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5430-5436.	6.7	14
6	Thermostability enhancement of the <i>Pseudomonas fluorescens</i> esterase I by in vivo folding selection in <i>Thermus thermophilus</i> . <i>Biotechnology and Bioengineering</i> , 2020, 117, 30-38.	3.3	8
7	Hypoxanthine-Guanine Phosphoribosyltransferase/adenylate Kinase From <i>Zobellia galactanivorans</i> : A Bifunctional Catalyst for the Synthesis of Nucleoside-5'-Mono-, Di- and Triphosphates. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 677.	4.1	9
8	Stabilization of Multimeric Enzymes via Immobilization and Further Cross-Linking with Aldehyde-Dextran. <i>Methods in Molecular Biology</i> , 2020, 2100, 175-187.	0.9	10
9	Intraparticle pH Sensing Within Immobilized Enzymes: Immobilized Yellow Fluorescent Protein as Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Particles. <i>Methods in Molecular Biology</i> , 2020, 2100, 319-333.	0.9	1
10	Functional Characterization and Structural Analysis of NADH Oxidase Mutants from <i>Thermus thermophilus</i> HB27: Role of Residues 166, 174, and 194 in the Catalytic Properties and Thermostability. <i>Microorganisms</i> , 2019, 7, 515.	3.6	2
11	A Modular Vector Toolkit with a Tailored Set of Thermosensors To Regulate Gene Expression in <i>Thermus thermophilus</i> . <i>ACS Omega</i> , 2019, 4, 14626-14632.	3.5	10
12	Biobased, Internally pH-Sensitive Materials: Immobilized Yellow Fluorescent Protein as an Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Matrices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6858-6868.	8.0	18
13	A Brief Guide to the High-Throughput Expression of Directed Evolution Libraries. <i>Methods in Molecular Biology</i> , 2018, 1685, 131-143.	0.9	0
14	Are in vivo selections on the path to extinction?. <i>Microbial Biotechnology</i> , 2017, 10, 46-49.	4.2	1
15	Stabilization of Enzymes by Using Thermophiles. <i>Methods in Molecular Biology</i> , 2017, 1645, 297-312.	0.9	12
16	A novel thermostable protein-tag: optimization of the <i>Sulfolobus solfataricus</i> DNA-alkyl-transferase by protein engineering. <i>Extremophiles</i> , 2016, 20, 1-13.	2.3	21
17	Parallel Pathways for Nitrite Reduction during Anaerobic Growth in <i>Thermus thermophilus</i> . <i>Journal of Bacteriology</i> , 2014, 196, 1350-1358.	2.2	7
18	Transferable Denitrification Capability of <i>Thermus thermophilus</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 19-28.	3.1	36

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19	One-Pot Simple Methodology for Cassette Randomization and Recombination for Focused Directed Evolution (OSCARR). <i>Methods in Molecular Biology</i> , 2014, 1179, 207-212.	0.9	9
20	Engineering the Substrate Specificity of a Thermophilic Penicillin Acylase from <i>Thermus thermophilus</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 1555-1562.	3.1	12
21	Promiscuous enantioselective (α)- β -lactamase activity in the <i>Pseudomonas fluorescens</i> esterase I. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 3388.	2.8	29
22	Functional expression of a penicillin acylase from the extreme thermophile <i>Thermus thermophilus</i> HB27 in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2012, 11, 105.	4.0	12
23	The residue 179 is involved in product specificity of the <i>Bacillus circulans</i> DF 9R cyclodextrin glycosyltransferase. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 123-130.	3.6	18
24	Characterization and further stabilization of a new anti-prelog specific alcohol dehydrogenase from <i>Thermus thermophilus</i> HB27 for asymmetric reduction of carbonyl compounds. <i>Bioresource Technology</i> , 2012, 103, 343-350.	9.6	40
25	Modulation of the distribution of small proteins within porous matrixes by smart-control of the immobilization rate. <i>Journal of Biotechnology</i> , 2011, 155, 412-420.	3.8	61
26	Cloning, functional expression, biochemical characterization, and structural analysis of a haloalkane dehalogenase from <i>Plesiocystis pacifica</i> SIR-1. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 1049-1060.	3.6	36
27	New biotechnological perspectives of a NADH oxidase variant from <i>Thermus thermophilus</i> HB27 as NAD ⁺ -recycling enzyme. <i>BMC Biotechnology</i> , 2011, 11, 101.	3.3	45
28	Suppression of Water as a Nucleophile in <i>Candida antarctica</i> Lipase B Catalysis. <i>ChemBioChem</i> , 2010, 11, 796-801.	2.6	37
29	Increased Enantioselectivity by Engineering Bottleneck Mutants in an Esterase from <i>Pseudomonas fluorescens</i> . <i>ChemBioChem</i> , 2009, 10, 2920-2923.	2.6	22
30	<i>Thermus thermophilus</i> as biological model. <i>Extremophiles</i> , 2009, 13, 213-231.	2.3	145
31	Reversible Immobilization of Glutaryl Acylase on Sepabeads Coated with Polyethyleneimine. <i>Biotechnology Progress</i> , 2008, 20, 533-536.	2.6	23
32	A one-pot, simple methodology for cassette randomisation and recombination for focused directed evolution. <i>Protein Engineering, Design and Selection</i> , 2008, 21, 567-576.	2.1	34
33	Enhancement of the Stability of a Prolipase from <i>Rhizopus oryzae</i> toward Aldehydes by Saturation Mutagenesis. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7291-7299.	3.1	28
34	Stabilization of different alcohol oxidases via immobilization and post immobilization techniques. <i>Enzyme and Microbial Technology</i> , 2007, 40, 278-284.	3.2	66
35	A versatile esterase from <i>Bacillus subtilis</i> : Cloning, expression, characterization, and its application in biocatalysis. <i>Biotechnology Journal</i> , 2007, 2, 249-253.	3.5	33
36	Preparation of a very stable immobilized biocatalyst of glucose oxidase from <i>Aspergillus niger</i> . <i>Journal of Biotechnology</i> , 2006, 121, 284-289.	3.8	78

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37	Stabilization of Multimeric Enzymes Via Immobilization and Further Cross-Linking With Aldehyde-Dextran. <i>Methods in Biotechnology</i> , 2006, , 129-141.	0.2	5
38	Glyoxyl agarose: A fully inert and hydrophilic support for immobilization and high stabilization of proteins. <i>Enzyme and Microbial Technology</i> , 2006, 39, 274-280.	3.2	347
39	Purification and identification of different lipases contained in PPL commercial extracts: A minor contaminant is the main responsible of most esterase activity. <i>Enzyme and Microbial Technology</i> , 2006, 39, 817-823.	3.2	36
40	Different mechanisms of protein immobilization on glutaraldehyde activated supports: Effect of support activation and immobilization conditions. <i>Enzyme and Microbial Technology</i> , 2006, 39, 877-882.	3.2	361
41	Immobilization of enzymes in microtiter plate scale. <i>Biotechnology Journal</i> , 2006, 1, 582-587.	3.5	15
42	Immobilization and Stabilization of Proteins by Multipoint Covalent Attachment on Novel Amino-Epoxy-Sepabeads®. <i>Methods in Biotechnology</i> , 2006, , 153-162.	0.2	1
43	Selectivity of lipases and esterases towards phenol esters. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 36, 8-13.	1.8	14
44	Preparation of a robust biocatalyst of d-amino acid oxidase on sepabeads supports using the glutaraldehyde crosslinking method. <i>Enzyme and Microbial Technology</i> , 2005, 37, 750-756.	3.2	69
45	Dextran aldehyde coating of glucose oxidase immobilized on magnetic nanoparticles prevents its inactivation by gas bubbles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 32, 97-101.	1.8	106
46	Immobilization and stabilization of glutaryl acylase on aminated sepabeads supports by the glutaraldehyde crosslinking method. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 35, 57-61.	1.8	59
47	One-Pot Conversion of Cephalosporin C to 7-Aminocephalosporanic Acid in the Absence of Hydrogen Peroxide. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 1804-1810.	4.3	52
48	Heterologous Production of Functional Forms of <i>Rhizopus oryzae</i> Lipase in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 8974-8977.	3.1	44
49	Enzyme stabilization by glutaraldehyde crosslinking of adsorbed proteins on aminated supports. <i>Journal of Biotechnology</i> , 2005, 119, 70-75.	3.8	259
50	Advantages of the Pre-Immobilization of Enzymes on Porous Supports for Their Entrapment in Solâ™ Gels. <i>Biomacromolecules</i> , 2005, 6, 1027-1030.	5.4	51
51	Co-aggregation of Enzymes and Polyethyleneimine: A Simple Method To Prepare Stable and Immobilized Derivatives of Glutaryl Acylase. <i>Biomacromolecules</i> , 2005, 6, 1839-1842.	5.4	96
52	<i>Thermus thermophilus</i> as a Cell Factory for the Production of a Thermophilic Mn-Dependent Catalase Which Fails To Be Synthesized in an Active Form in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 3839-3844.	3.1	46
53	Use of an Antisense RNA Strategy To Investigate the Functional Significance of Mn-Catalase in the Extreme Thermophile <i>Thermus thermophilus</i> . <i>Journal of Bacteriology</i> , 2004, 186, 7804-7806.	2.2	11
54	Purification of a Catalase from <i>Thermus thermophilus</i> via IMAC Chromatography: Effect of the Support. <i>Biotechnology Progress</i> , 2004, 20, 1578-1582.	2.6	8

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55	Determination of protein-protein interactions through aldehyde-dextran intermolecular cross-linking. <i>Proteomics</i> , 2004, 4, 2602-2607.	2.2	69
56	Cross-Linked Aggregates of Multimeric Enzymes: A Simple and Efficient Methodology To Stabilize Their Quaternary Structure. <i>Biomacromolecules</i> , 2004, 5, 814-817.	5.4	95
57	Prevention of interfacial inactivation of enzymes by coating the enzyme surface with dextran-aldehyde. <i>Journal of Biotechnology</i> , 2004, 110, 201-207.	3.8	68
58	Optimization of an industrial biocatalyst of glutaryl acylase: Stabilization of the enzyme by multipoint covalent attachment onto new amino-epoxy Sepabeads. <i>Journal of Biotechnology</i> , 2004, 111, 219-227.	3.8	48
59	Epoxy-Amino Groups: A New Tool for Improved Immobilization of Proteins by the Epoxy Method. <i>Biomacromolecules</i> , 2003, 4, 772-777.	5.4	234
60	Design of an immobilized preparation of catalase from <i>Thermus thermophilus</i> to be used in a wide range of conditions. <i>Enzyme and Microbial Technology</i> , 2003, 33, 278-285.	3.2	50
61	Use of Physicochemical Tools to Determine the Choice of Optimal Enzyme: Stabilization of -Amino Acid Oxidase. <i>Biotechnology Progress</i> , 2003, 19, 784-788.	2.6	63
62	Preparation of a Stable Biocatalyst of Bovine Liver Catalase Using Immobilization and Postimmobilization Techniques. <i>Biotechnology Progress</i> , 2003, 19, 763-767.	2.6	87
63	Degradation of phenol by <i>Rhodococcus erythropolis</i> UPV-1 immobilized on Biolite® in a packed-bed reactor. <i>Journal of Biotechnology</i> , 2002, 97, 1-11.	3.8	98
64	Biodegradation of phenol in synthetic and industrial wastewater by <i>Rhodococcus erythropolis</i> UPV-1 immobilized in an air-stirred reactor with clarifier. <i>Applied Microbiology and Biotechnology</i> , 2002, 58, 853-860.	3.6	65
65	Biological treatment of phenolic industrial wastewaters by <i>Rhodococcus erythropolis</i> UPV-1. <i>Enzyme and Microbial Technology</i> , 2002, 31, 221-226.	3.2	25