

Francisco Javier Las Heras Vzquez

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53
papers

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16
h-index

31
g-index

54
ext. papers

1,177
ext. citations

3.8
avg, IF

3.63
L-index

#	Paper	IF	Citations
53	Molecular characterization and oenological properties of wine yeasts isolated during spontaneous fermentation of six varieties of grape must. <i>Food Microbiology</i> , 2004 , 21, 149-155	6	170
52	Influence of sequential yeast mixtures on wine fermentation. <i>International Journal of Food Microbiology</i> , 2005 , 98, 301-8	5.8	116
51	Natural occurrence and industrial applications of D-amino acids: an overview. <i>Chemistry and Biodiversity</i> , 2010 , 7, 1531-48	2.5	88
50	Identification of yeast species from orange fruit and juice by RFLP and sequence analysis of the 5.8S rRNA gene and the two internal transcribed spacers. <i>FEMS Yeast Research</i> , 2003 , 3, 3-9	3.1	75
49	Contribution of different natural yeasts to the aroma of two alcoholic beverages. <i>World Journal of Microbiology and Biotechnology</i> , 2003 , 19, 297-304	4.4	45
48	Complete conversion of D,L-5-monosubstituted hydantoins with a low velocity of chemical racemization into D-amino acids using whole cells of recombinant <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2002 , 18, 1201-6	2.8	33
47	Overexpression and characterization of hydantoin racemase from <i>Agrobacterium tumefaciens</i> C58. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 303, 541-7	3.4	30
46	Thermodynamic analysis of the binding of glutathione to glutathione S-transferase over a range of temperatures. <i>FEBS Journal</i> , 2001 , 268, 4307-14		30
45	Optically pure alpha-amino acids production by the "Hydantoinase Process". <i>Recent Patents on Biotechnology</i> , 2008 , 2, 35-46	2.2	28
44	Structure of dihydropyrimidinase from <i>Sinorhizobium meliloti</i> CECT4114: new features in an amidohydrolase family member. <i>Journal of Structural Biology</i> , 2010 , 169, 200-8	3.4	27
43	Recombinant polycistronic structure of hydantoinase process genes in <i>Escherichia coli</i> for the production of optically pure D-amino acids. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1525-31	4.8	27
42	Molecular cloning, purification, and biochemical characterization of hydantoin racemase from the legume symbiont <i>Sinorhizobium meliloti</i> CECT 4114. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 625-30	4.8	26
41	Carbamoylases: characteristics and applications in biotechnological processes. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 441-58	5.7	25
40	Biochemical characterization of a novel hydantoin racemase from <i>Agrobacterium tumefaciens</i> C58. <i>Biochimie</i> , 2004 , 86, 77-81	4.6	24
39	Crystallographic and thermodynamic analysis of the binding of S-octylglutathione to the Tyr 7 to Phe mutant of glutathione S-transferase from <i>Schistosoma japonicum</i> . <i>Biochemistry</i> , 2005 , 44, 1174-83	3.2	22
38	Potential application of N-carbamoyl-beta-alanine amidohydrolase from <i>Agrobacterium tumefaciens</i> C58 for beta-amino acid production. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 514-20	4.8	17
37	A calorimetric study of the binding of S-alkylglutathiones to glutathione S-transferase. <i>BBA - Proteins and Proteomics</i> , 2001 , 1548, 106-13		15

36	Enzymatic dynamic kinetic resolution of racemic N-formyl- and N-carbamoyl-amino acids using immobilized L-N-carbamoylase and N-succinyl-amino acid racemase. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 283-91	5.7	14
35	Biochemical and mutational studies of the Bacillus cereus CECT 5050T formamidase support the existence of a C-E-E-K tetrad in several members of the nitrilase superfamily. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5761-9	4.8	14
34	The Family 52 beta-xylosidase from Geobacillus stearothermophilus is a dimer: structural and biophysical characterization of a glycoside hydrolase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008 , 1784, 1924-34	4	14
33	Amidohydrolase Process: Expanding the use of L-N-carbamoylase/N-succinyl-amino acid racemase tandem for the production of different optically pure l-amino acids. <i>Process Biochemistry</i> , 2014 , 49, 1281-1287	4.8	13
32	Metal-triggered changes in the stability and secondary structure of a tetrameric dihydropyrimidinase: a biophysical characterization. <i>Biophysical Chemistry</i> , 2009 , 139, 42-52	3.5	13
31	Molecular cloning and biochemical characterization of L-N-carbamoylase from Sinorhizobium meliloti CECT4114. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2005 , 9, 16-25	0.9	12
30	Immobilization of a multi-enzyme system for L-amino acids production. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1972-1981	3.5	12
29	Rational re-design of the double-racemase hydantoinase process for optically pure production of natural and non-natural l-amino acids. <i>Biochemical Engineering Journal</i> , 2015 , 101, 68-76	4.2	11
28	Racemization study on different N-acetylamino acids by a recombinant N-succinylamino acid racemase from Geobacillus kaustophilus CECT4264. <i>Process Biochemistry</i> , 2009 , 44, 835-841	4.8	11
27	Structure and conformational stability of a tetrameric thermostable N-succinylamino acid racemase. <i>Biopolymers</i> , 2009 , 91, 757-72	2.2	10
26	Mutational and structural analysis of L-N-carbamoylase reveals new insights into a peptidase M20/M25/M40 family member. <i>Journal of Bacteriology</i> , 2012 , 194, 5759-68	3.5	10
25	Thermodynamic and mutational studies of L-N-carbamoylase from Sinorhizobium meliloti CECT 4114 catalytic centre. <i>Biochimie</i> , 2006 , 88, 837-47	4.6	9
24	Binding studies of hydantoin racemase from Sinorhizobium meliloti by calorimetric and fluorescence analysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006 , 1764, 292-8	4	9
23	Site-directed mutagenesis indicates an important role of cysteines 76 and 181 in the catalysis of hydantoin racemase from Sinorhizobium meliloti. <i>Protein Science</i> , 2006 , 15, 2729-38	6.3	9
22	Catalytic analysis of a recombinant D-hydantoinase from Agrobacterium tumefaciens. <i>Biotechnology Letters</i> , 2003 , 25, 1067-73	3	9
21	Evaluation of substrate promiscuity of an L-carbamoyl amino acid amidohydrolase from Geobacillus stearothermophilus CECT43. <i>Biotechnology Progress</i> , 2010 , 26, 954-9	2.8	8
20	Crystallization and preliminary crystallographic studies of the recombinant dihydropyrimidinase from Sinorhizobium meliloti CECT4114. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 1223-6		8
19	Thermodynamics of glutathione binding to the tyrosine 7 to phenylalanine mutant of glutathione S-transferase from Schistosoma japonicum. <i>International Journal of Biological Macromolecules</i> , 2003 , 32, 77-82	7.9	8

18	Cloning of D-specific Hydantoin Utilization Genes from <i>Arthrobacter crystallopoietes</i> . <i>Engineering in Life Sciences</i> , 2004 , 4, 563-572	3.4	7
17	Biochemical and mutational studies of allantoinase from <i>Bacillus licheniformis</i> CECT 20T. <i>Biochimie</i> , 2014 , 99, 178-88	4.6	6
16	l-Amino Acid Production by a Immobilized Double-Racemase Hydantoinase Process: Improvement and Comparison with a Free Protein System. <i>Catalysts</i> , 2017 , 7, 192	4	6
15	New biocatalytic route for the production of enantioenriched β -alanine derivatives starting from 5- and 6-monosubstituted dihydrouracils. <i>Process Biochemistry</i> , 2012 , 47, 2090-2096	4.8	6
14	Enzymatic activity assay of D-hydantoinase by isothermal titration calorimetry. Determination of the thermodynamic activation parameters for the hydrolysis of several substrates. <i>Journal of Proteomics</i> , 2006 , 67, 57-66		6
13	Inhibitory effect of different product analogues on β -alanine synthase: A thermodynamic and fluorescence analysis. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 212-220	2.9	5
12	A monomer form of the glutathione S-transferase Y7F mutant from <i>Schistosoma japonicum</i> at acidic pH. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 314, 6-10	3.4	5
11	N-Carbamoyl- β -alanine amidohydrolase from <i>Agrobacterium tumefaciens</i> C58: a promiscuous enzyme for the production of amino acids. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011 , 879, 3277-82	3.2	4
10	Crystallization and preliminary crystallographic studies of an active-site mutant hydantoin racemase from <i>Sinorhizobium meliloti</i> CECT4114. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008 , 64, 50-3		4
9	Crystallization and preliminary crystallographic studies of the recombinant L-N-carbamoylase from <i>Geobacillus stearothermophilus</i> CECT43. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008 , 64, 1135-8		4
8	Screening of autolytic yeast strains for production of l-amino acids. <i>Enzyme and Microbial Technology</i> , 2006 , 40, 46-50	3.8	4
7	Identification of yeast species from orange fruit and juice by RFLP and sequence analysis of the 5.8S rRNA gene and the two internal transcribed spacers. <i>FEMS Yeast Research</i> , 2003 , 3, 3-9	3.1	3
6	Engineering cyclic amidases for non-natural amino acid synthesis. <i>Methods in Molecular Biology</i> , 2012 , 794, 87-104	1.4	3
5	Characterization of Cross-Linked Enzyme Aggregates of the Y509E Mutant of a Glycoside Hydrolase Family 52 β -xylosidase from. <i>Molecules</i> , 2021 , 26,	4.8	3
4	Biochemical and Mutational Characterization of N-Succinyl-Amino Acid Racemase from <i>Geobacillus stearothermophilus</i> CECT49. <i>Molecular Biotechnology</i> , 2015 , 57, 454-65	3	2
3	Hydantoin Racemase: The Key Enzyme for the Production of Optically Pure β -Amino Acids		173-193
2	Synergies of Chemistry and Biochemistry for the Production of β -Amino Acids		2014, 161-178
1	Optimisation of Two Recombinant Whole Cell Systems for the Production of Optically Pure D-Amino Acids		246-250

