

# Francisco Javier Las Heras Vázquez

## List of Publications by Year in descending order

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52  
papers

1,302  
citations

471061

17  
h-index

360668

35  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1269  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.1	199
2	Influence of sequential yeast mixtures on wine fermentation. <i>International Journal of Food Microbiology</i> , 2005, 98, 301-308.	2.1	132
3	Natural Occurrence and Industrial Applications of $\alpha$ -Amino Acids: An Overview. <i>Chemistry and Biodiversity</i> , 2010, 7, 1531-1548.	1.0	124
4	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.	1.1	99
5	Contribution of different natural yeasts to the aroma of two alcoholic beverages. <i>World Journal of Microbiology and Biotechnology</i> , 2003, 19, 297-304.	1.7	58
6	Optically Pure $\alpha$ -Amino Acids Production by the $\alpha$ -Hydantoinase Process. <i>Recent Patents on Biotechnology</i> , 2008, 2, 35-46.	0.4	40
7	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, 1201-1206.	1.3	39
8	Thermodynamic analysis of the binding of glutathione to glutathione S-transferase over a range of temperatures. <i>FEBS Journal</i> , 2001, 268, 4307-4314.	0.2	34
9	Carbamoylases: characteristics and applications in biotechnological processes. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 441-458.	1.7	34
10	Overexpression and characterization of hydantoin racemase from <i>Agrobacterium tumefaciens</i> C58. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 541-547.	1.0	33
11	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, 1525-1531.	1.4	30
12	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, 625-630.	1.4	29
13	Structure of dihydropyrimidinase from <i>Sinorhizobium meliloti</i> CECT4114: New features in an amidohydrolase family member. <i>Journal of Structural Biology</i> , 2010, 169, 200-208.	1.3	28
14	Biochemical characterization of a novel hydantoin racemase from <i>Agrobacterium tumefaciens</i> C58. <i>Biochimie</i> , 2004, 86, 77-81.	1.3	27
15	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, 1174-1183.	1.2	24
16	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, 5759-5768.	1.0	23
17	Potential Application of L-N-Carbamoyl-L-Alanine Amidohydrolase from <i>Agrobacterium tumefaciens</i> C58 for L-Amino Acid Production. <i>Applied and Environmental Microbiology</i> , 2009, 75, 514-520.	1.4	21
18	Molecular Cloning and Biochemical Characterization of L-N-Carbamoylase from <i>Sinorhizobium meliloti</i> CECT4114. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2005, 9, 16-25.	1.0	19

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19	The family 52 $\beta$ -xylosidase from <i>Geobacillus stearothermophilus</i> is a dimer: Structural and biophysical characterization of a glycoside hydrolase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1924-1934.	1.1	17
20	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, 283-291.	1.7	17
21	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.	1.1	16
22	Biochemical and Mutational Studies of the <i>Bacillus cereus</i> 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, 5761-5769.	1.4	16
23	A calorimetric study of the binding of S-alkylglutathiones to glutathione S-transferase. <i>BBA - Proteins and Proteomics</i> , 2001, 1548, 106-113.	2.1	15
24	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.	1.8	14
25	Immobilization of a multi-enzyme system for L-amino acids production. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1972-1981.	1.6	14
26	Thermodynamic and Mutational studies of L-N-carbamoylase from <i>Sinorhizobium meliloti</i> CECT 4114 catalytic centre. <i>Biochimie</i> , 2006, 88, 837-847.	1.3	13
27	Metal-triggered changes in the stability and secondary structure of a tetrameric dihydropyrimidinase: A biophysical characterization. <i>Biophysical Chemistry</i> , 2009, 139, 42-52.	1.5	13
28	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.	1.8	13
29	Racemization study on different N-acetyl-amino acids by a recombinant N-succinyl-amino acid racemase from <i>Geobacillus kaustophilus</i> CECT4264. <i>Process Biochemistry</i> , 2009, 44, 835-841.	1.8	12
30	Binding studies of hydantoin racemase from <i>Sinorhizobium meliloti</i> by calorimetric and fluorescence analysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 292-298.	1.1	11
31	Site-directed mutagenesis indicates an important role of cysteines 76 and 181 in the catalysis of hydantoin racemase from <i>Sinorhizobium meliloti</i> . <i>Protein Science</i> , 2006, 15, 2729-2738.	3.1	11
32	Crystallization and preliminary crystallographic studies of the recombinant dihydropyrimidinase from <i>Sinorhizobium meliloti</i> CECT4114. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1223-1226.	0.7	10
33	Structure and conformational stability of a tetrameric thermostable N-succinyl-amino acid racemase. <i>Biopolymers</i> , 2009, 91, 757-772.	1.2	10
34	Evaluation of substrate promiscuity of an L-carbamoyl amino acid amidohydrolase from <i>Geobacillus stearothermophilus</i> CECT43. <i>Biotechnology Progress</i> , 2010, 26, 954-959.	1.3	10
35	Catalytic analysis of a recombinant D-hydantoinase from <i>Agrobacterium tumefaciens</i> . <i>Biotechnology Letters</i> , 2003, 25, 1067-1073.	1.1	9
36	Thermodynamics of glutathione binding to the tyrosine 7 to phenylalanine mutant of glutathione S-transferase from <i>Schistosoma japonicum</i> . <i>International Journal of Biological Macromolecules</i> , 2003, 32, 77-82.	3.6	8

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37	New biocatalytic route for the production of enantioenriched Î²-alanine derivatives starting from 5- and 6-monosubstituted dihydrouracils. <i>Process Biochemistry</i> , 2012, 47, 2090-2096.	1.8	8
38	Biochemical and mutational studies of allantoinase from <i>Bacillus licheniformis</i> CECT 20T. <i>Biochimie</i> , 2014, 99, 178-188.	1.3	8
39	Cloning of D-specific Hydantoin Utilization Genes from <i>Arthrobacter crystallopoietes</i> . <i>Engineering in Life Sciences</i> , 2004, 4, 563-572.	2.0	7
40	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.	1.6	7
41	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.	1.0	6
42	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.	2.4	6
43	N-Carbamoyl-Î²-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, 3277-3282.	1.2	6
44	Characterization of Cross-Linked Enzyme Aggregates of the Y509E Mutant of a Glycoside Hydrolase Family 52 Î²-xylosidase from <i>G. stearothermophilus</i> . <i>Molecules</i> , 2021, 26, 451.	1.7	6
45	Screening of autolytic yeast strains for production of l-amino acids. <i>Enzyme and Microbial Technology</i> , 2006, 40, 46-50.	1.6	5
46	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, 50-53.	0.7	5
47	Inhibitory effect of different product analogues on Î²-alanine synthase: A thermodynamic and fluorescence analysis. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 212-220.	1.0	5
48	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, 1135-1138.	0.7	4
49	Engineering Cyclic Amidases for Non-natural Amino Acid Synthesis. <i>Methods in Molecular Biology</i> , 2012, 794, 87-104.	0.4	3
50	Biochemical and Mutational Characterization of N-Succinyl-Amino Acid Racemase from <i>Geobacillus stearothermophilus</i> CECT49. <i>Molecular Biotechnology</i> , 2015, 57, 454-465.	1.3	2
51	Hydantoin Racemase: The Key Enzyme for the Production of Optically Pure Î±-Amino Acids. , 0, , 173-193.		1
52	Optimisation of Two Recombinant Whole Cell Systems for the Production of Optically Pure D-Amino Acids. , 0, , 246-250.		0