

Luciano Piubelli

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

1,218
citations

21
h-index

34
g-index

43
ext. papers

1,334
ext. citations

4.7
avg, IF

3.97
L-index

#	Paper	IF	Citations
41	Physiological functions of D-amino acid oxidases: from yeast to humans. <i>Cellular and Molecular Life Sciences</i> , 2007 , 64, 1373-94	10.3	267
40	Competition between C-terminal tyrosine and nicotinamide modulates pyridine nucleotide affinity and specificity in plant ferredoxin-NADP(+) reductase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 10472-6	5.4	74
39	The role of cysteine residues of spinach ferredoxin-NADP+ reductase As assessed by site-directed mutagenesis. <i>Biochemistry</i> , 1993 , 32, 6374-80	3.2	64
38	Cholesterol oxidase: biotechnological applications. <i>FEBS Journal</i> , 2009 , 276, 6857-70	5.7	63
37	Pronase-immobilized enzyme reactor: an approach for automation in glycoprotein analysis by LC/LC-ESI/MSn. <i>Analytical Chemistry</i> , 2007 , 79, 355-63	7.8	61
36	Probing the function of the invariant glutamyl residue 312 in spinach ferredoxin-NADP+ reductase. <i>Journal of Biological Chemistry</i> , 1998 , 273, 34008-15	5.4	48
35	On the oxygen reactivity of flavoprotein oxidases: an oxygen access tunnel and gate in <i>Brevibacterium sterolicum</i> cholesterol oxidase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 24738-47	5.4	38
34	Contribution of the dimeric state to the thermal stability of the flavoprotein D-amino acid oxidase. <i>Protein Science</i> , 2003 , 12, 1018-29	6.3	38
33	Diffusion-controlled DNA recognition by an unfolded, monomeric bZIP transcription factor. <i>FEBS Letters</i> , 1998 , 425, 14-8	3.8	34
32	Optimizing HIV-1 protease production in <i>Escherichia coli</i> as fusion protein. <i>Microbial Cell Factories</i> , 2011 , 10, 53	6.4	31
31	Engineering the properties of D-amino acid oxidases by a rational and a directed evolution approach. <i>Current Protein and Peptide Science</i> , 2007 , 8, 600-18	2.8	31
30	Characterization of intact neo-glycoproteins by hydrophilic interaction liquid chromatography. <i>Molecules</i> , 2014 , 19, 9070-88	4.8	29
29	Production of recombinant cholesterol oxidase containing covalently bound FAD in <i>Escherichia coli</i> . <i>BMC Biotechnology</i> , 2010 , 10, 33	3.5	28
28	Structural, kinetic, and pharmacodynamic mechanisms of D-amino acid oxidase inhibition by small molecules. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 3710-24	8.3	26
27	Optimizing <i>Escherichia coli</i> as a protein expression platform to produce <i>Mycobacterium tuberculosis</i> immunogenic proteins. <i>Microbial Cell Factories</i> , 2013 , 12, 115	6.4	25
26	Hydrophilic interaction liquid chromatography-mass spectrometry as a new tool for the characterization of intact semi-synthetic glycoproteins. <i>Analytica Chimica Acta</i> , 2017 , 981, 94-105	6.6	24
25	Unfolding intermediate in the peroxisomal flavoprotein D-amino acid oxidase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 28426-34	5.4	24

24	Regulation of D-amino acid oxidase expression in the yeast <i>Rhodotorula gracilis</i> . <i>Yeast</i> , 2003 , 20, 1061-9	3.4	24
23	Is rat an appropriate animal model to study the involvement of D-serine catabolism in schizophrenia? Insights from characterization of D-amino acid oxidase. <i>FEBS Journal</i> , 2011 , 278, 4362-73	5.7	23
22	Mutations of Glu92 in ferredoxin I from spinach leaves produce proteins fully functional in electron transfer but less efficient in supporting NADP+ photoreduction. <i>FEBS Journal</i> , 1996 , 236, 465-9		23
21	Conversion of the dimeric D-amino acid oxidase from <i>Rhodotorula gracilis</i> to a monomeric form. A rational mutagenesis approach. <i>FEBS Letters</i> , 2002 , 526, 43-8	3.8	21
20	Enzymatic detection of D-amino acids. <i>Methods in Molecular Biology</i> , 2012 , 794, 273-89	1.4	19
19	Relevance of the flavin binding to the stability and folding of engineered cholesterol oxidase containing noncovalently bound FAD. <i>Protein Science</i> , 2008 , 17, 409-19	6.3	19
18	Structure-function relationships in human d-amino acid oxidase variants corresponding to known SNPs. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 1150-9	4	18
17	Assays of D-Amino Acid Oxidase Activity. <i>Frontiers in Molecular Biosciences</i> , 2017 , 4, 102	5.6	18
16	Liquid chromatography-mass spectrometry structural characterization of neo glycoproteins aiding the rational design and synthesis of a novel glycovaccine for protection against tuberculosis. <i>Journal of Chromatography A</i> , 2014 , 1367, 57-67	4.5	17
15	On the role of the acidic cluster Glu 92-94 of spinach ferredoxin I. <i>BBA - Proteins and Proteomics</i> , 1997 , 1342, 45-50		16
14	Novel biosensors based on optimized glycine oxidase. <i>FEBS Journal</i> , 2014 , 281, 3460-72	5.7	14
13	Monitoring antigenic protein integrity during glycoconjugate vaccine synthesis using capillary electrophoresis-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 6123-32	4.4	14
12	Glycosylation of Recombinant Antigenic Proteins from <i>Mycobacterium tuberculosis</i> : In Silico Prediction of Protein Epitopes and Ex Vivo Biological Evaluation of New Semi-Synthetic Glycoconjugates. <i>Molecules</i> , 2017 , 22,	4.8	11
11	Dissection of the structural determinants involved in formation of the dimeric form of D-amino acid oxidase from <i>Rhodotorula gracilis</i> : role of the size of the betaF5-betaF6 loop. <i>Protein Engineering, Design and Selection</i> , 2003 , 16, 1063-9	1.9	11
10	Serum D-serine levels are altered in early phases of Alzheimer's disease: towards a precocious biomarker. <i>Translational Psychiatry</i> , 2021 , 11, 77	8.6	11
9	Investigating the role of active site residues of <i>Rhodotorula gracilis</i> D-amino acid oxidase on its substrate specificity. <i>Biochimie</i> , 2007 , 89, 360-8	4.6	10
8	On the mechanism of <i>Rhodotorula gracilis</i> D-amino acid oxidase: role of the active site serine 335. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004 , 1702, 19-32	4	8
7	Enterokinase monolithic bioreactor as an efficient tool for biopharmaceuticals preparation: on-line cleavage of fusion proteins and analytical characterization of released products. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 157, 10-19	3.5	7

6	The Role of D-Amino Acids in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021 , 80, 475-492	4.3	7
5	Epitope and affinity determination of recombinant Mycobacterium tuberculosis Ag85B antigen towards anti-Ag85 antibodies using proteolytic affinity-mass spectrometry and biosensor analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 439-448	4.4	7
4	From new Diagnostic Targets to Recombinant Proteins and Semi-Synthetic Protein-Based Vaccines. <i>Current Organic Chemistry</i> , 2016 , 20, 1150-1168	1.7	6
3	Rational design, preparation and characterization of recombinant Ag85B variants and their glycoconjugates with T-cell antigenic activity against .. <i>RSC Advances</i> , 2018 , 8, 23171-23180	3.7	6
2	Immobilization of L-aspartate oxidase from <i>Sulfolobus tokodaii</i> as a biocatalyst for resolution of aspartate solutions. <i>Catalysis Science and Technology</i> , 2015 , 5, 1106-1114	5.5	3
1	Rational Design, Synthesis, and Characterization of Glycoconjugates as Potential Vaccines against Tuberculosis. <i>Proceedings (mdpi)</i> , 2019 , 22, 46	0.3	