

Roque Bru-Martinez

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.

81
papers

3,222
citations

31
h-index

54
g-index

85
ext. papers

3,564
ext. citations

4.9
avg, IF

4.86
L-index

#	Paper	IF	Citations
81	Class III peroxidases in plant defence reactions. <i>Journal of Experimental Botany</i> , 2009 , 60, 377-90	7	556
80	Synergistic effect of methyljasmonate and cyclodextrin on stilbene biosynthesis pathway gene expression and resveratrol production in Monastrell grapevine cell cultures. <i>BMC Research Notes</i> , 2008 , 1, 132	2.3	129
79	Modified cyclodextrins are chemically defined glucan inducers of defense responses in grapevine cell cultures. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 65-71	5.7	118
78	Novel procedure for extraction of a latent grape polyphenoloxidase using temperature-induced phase separation in triton x-114. <i>Plant Physiology</i> , 1989 , 91, 1481-7	6.6	106
77	Kinetic models in reverse micelles. <i>Biochemical Journal</i> , 1995 , 310 (Pt 3), 721-39	3.8	100
76	Enhanced extracellular production of trans-resveratrol in <i>Vitis vinifera</i> suspension cultured cells by using cyclodextrins and methyljasmonate. <i>Plant Cell Reports</i> , 2012 , 31, 81-9	5.1	99
75	A DIGE-based quantitative proteomic analysis of grape berry flesh development and ripening reveals key events in sugar and organic acid metabolism. <i>Journal of Experimental Botany</i> , 2011 , 62, 2521-7	7.69	94
74	Characterization of catecholase and cresolase activities of monastrell grape polyphenol oxidase. <i>Phytochemistry</i> , 1988 , 27, 319-321	4	88
73	Use of soluble lipids for biochemical processes: linoleic acid-cyclodextrin inclusion complexes in aqueous solutions. <i>Biochemical Journal</i> , 1995 , 308 (Pt 1), 151-4	3.8	83
72	A theoretical study on the expression of enzymic activity in reverse micelles. <i>Biochemical Journal</i> , 1989 , 259, 355-61	3.8	83
71	Changes of defense proteins in the extracellular proteome of grapevine (<i>Vitis vinifera</i> cv. Gamay) cell cultures in response to elicitors. <i>Journal of Proteomics</i> , 2009 , 73, 331-41	3.9	75
70	New insights into plant salt acclimation: the roles of vesicle trafficking and reactive oxygen species signalling in mitochondria and the endomembrane system. <i>New Phytologist</i> , 2015 , 205, 216-39	9.8	63
69	iTRAQ-based quantitative analysis of protein mixtures with large fold change and dynamic range. <i>Proteomics</i> , 2010 , 10, 343-7	4.8	63
68	Effect of dimethyl-β-cyclodextrins on resveratrol metabolism in Gamay grapevine cell cultures before and after inoculation with shape <i>Xylophilus ampelinus</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 1998 , 53, 179-187	2.7	60
67	Phase separation of biomolecules in polyoxyethylene glycol nonionic detergents. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1994 , 29, 275-313	8.7	57
66	Isolation of a latent polyphenol oxidase from loquat fruit (<i>Eriobotrya japonica</i> Lindl.): kinetic characterization and comparison with the active form. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 446, 175-85	4.1	54
65	Ectopic overexpression of the cell wall invertase gene CIN1 leads to dehydration avoidance in tomato. <i>Journal of Experimental Botany</i> , 2015 , 66, 863-78	7	53

64	The effect of substrate partitioning on the kinetics of enzymes acting in reverse micelles. <i>Biochemical Journal</i> , 1990 , 268, 679-84	3.8	53
63	Partial purification of a thylakoid-bound enzyme using temperature-induced phase partitioning. <i>Analytical Biochemistry</i> , 1990 , 184, 279-82	3.1	51
62	Proteomic analysis of tobacco mosaic virus-infected tomato (<i>Lycopersicon esculentum</i> M.) fruits and detection of viral coat protein. <i>Proteomics</i> , 2006 , 6 Suppl 1, S196-206	4.8	50
61	iTRAQ-based protein profiling provides insights into the central metabolism changes driving grape berry development and ripening. <i>BMC Plant Biology</i> , 2013 , 13, 167	5.3	49
60	Cell-linked and extracellular cholesterol oxidase activities from <i>Rhodococcus erythropolis</i> . Isolation and physiological characterization. <i>Applied Microbiology and Biotechnology</i> , 1997 , 47, 583-9	5.7	48
59	Product inhibition of alpha-chymotrypsin in reverse micelles. <i>FEBS Journal</i> , 1991 , 199, 95-103		48
58	Changes to the proteome and targeted metabolites of xylem sap in <i>Brassica oleracea</i> in response to salt stress. <i>Plant, Cell and Environment</i> , 2011 , 34, 821-36	8.4	43
57	Production of highly bioactive resveratrol analogues pterostilbene and piceatannol in metabolically engineered grapevine cell cultures. <i>Plant Biotechnology Journal</i> , 2016 , 14, 1813-25	11.6	42
56	Triton X-114 phase partitioning in plant protein purification. <i>Journal of Chromatography A</i> , 1994 , 668, 75-83	4.5	42
55	Characteristics of tyrosinase in AOT-isooctane reverse micelles. <i>Biotechnology and Bioengineering</i> , 1989 , 34, 304-8	4.9	42
54	Dissecting the transcriptional response to elicitors in <i>Vitis vinifera</i> cells. <i>PLoS ONE</i> , 2014 , 9, e109777	3.7	40
53	Enhanced extracellular production of trans-resveratrol in <i>Vitis vinifera</i> suspension cultured cells by using cyclodextrins and coronatine. <i>Plant Physiology and Biochemistry</i> , 2015 , 97, 361-7	5.4	39
52	DIGE analysis of proteome changes accompanying large resveratrol production by grapevine (<i>Vitis vinifera</i> cv. Gamay) cell cultures in response to methyl-β-cyclodextrin and methyl jasmonate elicitors. <i>Journal of Proteomics</i> , 2011 , 74, 1421-36	3.9	31
51	Enzymatic Oxidation of Linoleic Acid by Lipoxygenase Forming Inclusion Complexes with Cyclodextrins as Starch Model Molecules. <i>Journal of Agricultural and Food Chemistry</i> , 1997 , 45, 1144-1148	5.7	31
50	Triton X-114-aided purification of latent tyrosinase. <i>Biomedical Applications</i> , 1996 , 680, 105-12		31
49	Kinetic properties of polyphenoloxidase in organic solvents A study in Brij 96-cyclohexane reverse micelles. <i>FEBS Letters</i> , 1988 , 233, 363-366	3.8	29
48	Alterations in energy metabolism, neuroprotection and visual signal transduction in the retina of Parkinsonian, MPTP-treated monkeys. <i>PLoS ONE</i> , 2013 , 8, e74439	3.7	28
47	Proteomic approach to blossom-end rot in tomato fruits (<i>Lycopersicon esculentum</i> M.): antioxidant enzymes and the pentose phosphate pathway. <i>Proteomics</i> , 2005 , 5, 2488-96	4.8	27

46	Induction of trans-resveratrol and extracellular pathogenesis-related proteins in elicited suspension cultured cells of <i>Vitis vinifera</i> cv Monastrell. <i>Journal of Plant Physiology</i> , 2013 , 170, 258-64	3.6	24
45	Early signaling network in tobacco cells elicited with methyl jasmonate and cyclodextrins. <i>Plant Physiology and Biochemistry</i> , 2012 , 51, 1-9	5.4	22
44	The role of proteomics in progressing insights into plant secondary metabolism. <i>Frontiers in Plant Science</i> , 2015 , 6, 504	6.2	22
43	iTRAQ-based profiling of grape berry exocarp proteins during ripening using a parallel mass spectrometric method. <i>Molecular BioSystems</i> , 2011 , 7, 749-65		22
42	Aggregation of polyunsaturated fatty acids in the presence of cyclodextrins. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1995 , 97, 263-269	5.1	22
41	pH artifacts in reverse micellar enzymology: A warning. <i>Pure and Applied Chemistry</i> , 1992 , 64, 1771-1775	2.1	22
40	Chemical and enzymic oxidation by tyrosinase of 3,4-dihydroxymandelate. <i>Biochemical Journal</i> , 1988 , 256, 681-4	3.8	22
39	cell cultures stably transformed with stilbene synthase accumulate -resveratrol in the extracellular medium after elicitation with methyl jasmonate or methylated Cyclodextrins. <i>Engineering in Life Sciences</i> , 2017 , 17, 686-694	3.4	21
38	RNA isolation from loquat and other recalcitrant woody plants with high quality and yield. <i>Analytical Biochemistry</i> , 2014 , 452, 46-53	3.1	21
37	Early signaling events in grapevine cells elicited with cyclodextrins and methyl jasmonate. <i>Plant Physiology and Biochemistry</i> , 2013 , 62, 107-10	5.4	21
36	Effect of detergents, trypsin and unsaturated fatty acids on latent loquat fruit polyphenol oxidase: basis for the enzyme's activity regulation. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 464, 295-305	4.1	21
35	Kinetic characteristics of the enzymatic conversion in presence of cyclodextrins: study of the oxidation of polyunsaturated fatty acids by lipoxygenase. <i>Lipids and Lipid Metabolism</i> , 1997 , 1347, 140-50		19
34	An octaethylene glycol monododecyl ether-based mixed micellar assay for lipoxygenase acting at neutral pH. <i>Analytical Biochemistry</i> , 1994 , 221, 410-5	3.1	18
33	Lights and shadows of proteomic technologies for the study of protein species including isoforms, splicing variants and protein post-translational modifications. <i>Proteomics</i> , 2011 , 11, 590-603	4.8	17
32	Changes in pH-dependent grape polyphenoloxidase activity during maturation. <i>Journal of Agricultural and Food Chemistry</i> , 1989 , 37, 1242-1245	5.7	17
31	Transformation of plum plants with a cytosolic ascorbate peroxidase transgene leads to enhanced water stress tolerance. <i>Annals of Botany</i> , 2016 , 117, 1121-31	4.1	17
30	Cytotoxic effect of natural trans-resveratrol obtained from elicited <i>Vitis vinifera</i> cell cultures on three cancer cell lines. <i>Plant Foods for Human Nutrition</i> , 2012 , 67, 422-9	3.9	16
29	Development and validation of MRM methods to quantify protein isoforms of polyphenol oxidase in loquat fruits. <i>Journal of Proteome Research</i> , 2013 , 12, 5709-22	5.6	16

28	Cyclodextrins as hosts for poorly water-soluble compounds in enzyme catalysis. <i>Applied Biochemistry and Biotechnology</i> , 1996 , 61, 189-198	3.2	16
27	Trypsin-SBTI interaction in reverse micelles. A slow intermicellar exchange-dependent binding. <i>FEBS Letters</i> , 1991 , 282, 170-4	3.8	16
26	Proteome alterations monitored by DIGE analysis in <i>Silybum marianum</i> cell cultures elicited with methyl jasmonate and methyl B cyclodextrin. <i>Journal of Proteomics</i> , 2013 , 85, 99-108	3.9	15
25	<i>Rhodococcus erythropolis</i> ATCC 25544 as a suitable source of cholesterol oxidase: cell-linked and extracellular enzyme synthesis, purification and concentration. <i>BMC Biotechnology</i> , 2002 , 2, 3	3.5	15
24	Bioconversion of stilbenes in genetically engineered root and cell cultures of tobacco. <i>Scientific Reports</i> , 2017 , 7, 45331	4.9	14
23	A Tau Class Glutathione--Transferase is Involved in -Resveratrol Transport Out of Grapevine Cells. <i>Frontiers in Plant Science</i> , 2017 , 8, 1457	6.2	14
22	Proteomics of multigenic families from species underrepresented in databases: the case of loquat (<i>Eriobotrya japonica</i> Lindl.) polyphenol oxidases. <i>Journal of Proteome Research</i> , 2008 , 7, 4095-106	5.6	14
21	Characterization of cholesterol oxidase activity in AOT-isoctane reverse micelles and its dependence on micelle size. <i>Biotechnology Letters</i> , 1989 , 11, 237-242	3	14
20	Differential plant proteome analysis by isobaric tags for relative and absolute quantitation (iTRAQ). <i>Methods in Molecular Biology</i> , 2014 , 1072, 155-69	1.4	13
19	A Focused Multiple Reaction Monitoring (MRM) Quantitative Method for Bioactive Grapevine Stilbenes by Ultra-High-Performance Liquid Chromatography Coupled to Triple-Quadrupole Mass Spectrometry (UHPLC-QqQ). <i>Molecules</i> , 2017 , 22,	4.8	13
18	Biotechnological production of recombinant tissue plasminogen activator protein (reteplase) from transplastomic tobacco cell cultures. <i>Plant Physiology and Biochemistry</i> , 2017 , 118, 130-137	5.4	12
17	Trans-oligomerization of duplicated aminoacyl-tRNA synthetases maintains genetic code fidelity under stress. <i>Nucleic Acids Research</i> , 2015 , 43, 9905-17	20.1	12
16	Software for reviewing biomolecules in three dimensions on the Internet. <i>Trends in Biochemical Sciences</i> , 1995 , 20, 286-8	10.3	12
15	Tailoring tobacco hairy root metabolism for the production of stilbenes. <i>Scientific Reports</i> , 2017 , 7, 17976	4.9	11
14	sn-1,2-diacylglycerol cholinephosphotransferase from pig liver: mixed micellar assay and kinetic analysis of the partially pure enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1993 , 307, 295-303	4.1	10
13	A reliable protocol for the stable transformation of non-embryogenic cells cultures of grapevine (<i>Vitis vinifera</i> L.) and <i>Taxus x media</i> . <i>Journal of Biological Methods</i> , 2015 , 2, e21	1.4	10
12	A DIGE proteomic analysis of wheat flag leaf treated with TERRA-SORB [®] foliar, a free amino acid high content biostimulant. <i>Journal of Integrated OMICS</i> , 2016 , 6,	0.5	10
11	<i>Rosa hybrida</i> orcinol O-methyl transferase-mediated production of pterostilbene in metabolically engineered grapevine cell cultures. <i>New Biotechnology</i> , 2018 , 42, 62-70	6.4	9

10	Sub-Cellular Localization and Complex Formation by Aminoacyl-tRNA Synthetases in Cyanobacteria: Evidence for Interaction of Membrane-Anchored ValRS with ATP Synthase. <i>Frontiers in Microbiology</i> , 2016 , 7, 857	5.7	7
9	Potato (<i>Solanum tuberosum</i> Var. Desiree) Tuber 5-Lipoxygenase Selectivity for the Physicochemical Properties of Linoleic Acid. <i>Journal of Agricultural and Food Chemistry</i> , 1997 , 45, 2869-2875	5.7	5
8	Effect of calcium on the oxidation of linoleic acid by potato (<i>Solanum tuberosum</i> var. Desiree) tuber 5-lipoxygenase. <i>Journal of Agricultural and Food Chemistry</i> , 2000 , 48, 292-6	5.7	5
7	Hydroperoxidase activity of soybean lipoxygenase in reverse micelles. <i>Journal of Biotechnology</i> , 1998 , 60, 137-140	3.7	4
6	A comparison of tissue preparation methods for protein extraction of cocoa (<i>Theobroma cacao</i> L.) pod. <i>Acta Agronomica</i> , 2017 , 66,	0.4	2
5	Cyclodextrins as molecular tools to investigate the surface properties of potato 5-lipoxygenase 1996 , 276-280		1
4	Targeted Quantification of Isoforms of a Thylakoid-Bound Protein: MRM Method Development. <i>Methods in Molecular Biology</i> , 2018 , 1696, 147-162	1.4	1
3	Role of a cryptic tRNA gene operon in survival under translational stress. <i>Nucleic Acids Research</i> , 2021 , 49, 8757-8776	20.1	1
2	Dimethyl Labeling-Based Quantitative Proteomics of Recalcitrant Cocoa Pod Tissue. <i>Methods in Molecular Biology</i> , 2020 , 2139, 133-146	1.4	
1	Suspension-cultured plant cells as a tool to analyze the extracellular proteome. <i>Methods in Molecular Biology</i> , 2014 , 1072, 407-33	1.4	