

Marta Sousa Silva

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.

46
papers

1,112
citations

18
h-index

32
g-index

55
ext. papers

1,382
ext. citations

4.1
avg, IF

4.16
L-index

#	Paper	IF	Citations
46	The glyoxalase pathway: the first hundred years... and beyond. <i>Biochemical Journal</i> , 2013 , 453, 1-15	3.8	164
45	Transcript and metabolite analysis in Trincadeira cultivar reveals novel information regarding the dynamics of grape ripening. <i>BMC Plant Biology</i> , 2011 , 11, 149	5.3	113
44	Argpyrimidine, a methylglyoxal-derived advanced glycation end-product in familial amyloidotic polyneuropathy. <i>Biochemical Journal</i> , 2005 , 385, 339-45	3.8	78
43	Yeast protein glycation in vivo by methylglyoxal. Molecular modification of glycolytic enzymes and heat shock proteins. <i>FEBS Journal</i> , 2006 , 273, 5273-87	5.7	57
42	Subtilisin-like proteases in plant defence: the past, the present and beyond. <i>Molecular Plant Pathology</i> , 2018 , 19, 1017-1028	5.7	49
41	Linking Jasmonic Acid to Grapevine Resistance against the Biotrophic Oomycete <i>Plasmopara viticola</i> . <i>Frontiers in Plant Science</i> , 2016 , 7, 565	6.2	47
40	Protein glycation in vivo: functional and structural effects on yeast enolase. <i>Biochemical Journal</i> , 2008 , 416, 317-26	3.8	44
39	Quantitative assessment of the glyoxalase pathway in <i>Leishmania infantum</i> as a therapeutic target by modelling and computer simulation. <i>FEBS Journal</i> , 2005 , 272, 2388-98	5.7	40
38	Protein glycation in <i>Saccharomyces cerevisiae</i> . Argpyrimidine formation and methylglyoxal catabolism. <i>FEBS Journal</i> , 2005 , 272, 4521-31	5.7	39
37	The glyoxalase pathway in protozoan parasites. <i>International Journal of Medical Microbiology</i> , 2012 , 302, 225-9	3.7	38
36	Catalysis and structural properties of <i>Leishmania infantum</i> glyoxalase II: trypanothione specificity and phylogeny. <i>Biochemistry</i> , 2008 , 47, 195-204	3.2	35
35	The interplay between membrane lipids and phospholipase A family members in grapevine resistance against <i>Plasmopara viticola</i> . <i>Scientific Reports</i> , 2018 , 8, 14538	4.9	27
34	Metabolite extraction for high-throughput FTICR-MS-based metabolomics of grapevine leaves. <i>EuPA Open Proteomics</i> , 2016 , 12, 4-9	0.1	26
33	Acetylcholinesterase inhibition, antioxidant activity and toxicity of <i>Peumus boldus</i> water extracts on HeLa and Caco-2 cell lines. <i>Food and Chemical Toxicology</i> , 2012 , 50, 2656-62	4.7	26
32	Protein glycation and methylglyoxal metabolism in yeast: finding peptide needles in protein haystacks. <i>FEMS Yeast Research</i> , 2008 , 8, 174-81	3.1	20
31	Revisiting Subtilase Gene Family: A Possible Role in Grapevine Resistance against. <i>Frontiers in Plant Science</i> , 2016 , 7, 1783	6.2	20
30	Early stage metabolic events associated with the establishment of <i>Vitis vinifera</i> - <i>Plasmopara viticola</i> compatible interaction. <i>Plant Physiology and Biochemistry</i> , 2019 , 137, 1-13	5.4	18

29	Organogenic nodule development in hop (<i>Humulus lupulus</i> L.): transcript and metabolic responses. <i>BMC Genomics</i> , 2008 , 9, 445	4.5	17
28	Optimization of time-course experiments for kinetic model discrimination. <i>PLoS ONE</i> , 2012 , 7, e32749	3.7	15
27	Integrating metabolomics and targeted gene expression to uncover potential biomarkers of fungal/oomycetes-associated disease susceptibility in grapevine. <i>Scientific Reports</i> , 2020 , 10, 15688	4.9	15
26	<i>Vitis vinifera</i> 'Pinot noir' leaves as a source of bioactive nutraceutical compounds. <i>Food and Function</i> , 2019 , 10, 3822-3827	6.1	14
25	First screening of biocides, persistent organic pollutants, pharmaceutical and personal care products in Antarctic phytoplankton from Deception Island by FT-ICR-MS. <i>Chemosphere</i> , 2021 , 274, 129860	8.4	11
24	Metabolism of biodiesel-derived glycerol in probiotic <i>Lactobacillus</i> strains. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 1735-43	5.7	9
23	The proteome response to amyloid protein expression in vivo. <i>PLoS ONE</i> , 2012 , 7, e50123	3.7	9
22	Extracellular methylglyoxal toxicity in <i>Saccharomyces cerevisiae</i> : role of glucose and phosphate ions. <i>Journal of Applied Microbiology</i> , 2008 , 104, 1092-102	4.7	9
21	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of glyoxalase I from <i>Leishmania infantum</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010 , 66, 571-4		8
20	Differential expression and cellular localization of ERKs during organogenic nodule formation from internodes of <i>Humulus lupulus</i> var. Nugget. <i>European Journal of Cell Biology</i> , 2004 , 83, 425-33	6.1	8
19	Healthcare Recommendations from the Personalised ICT Supported Service for Independent Living and Active Ageing (PERSSILAA) Study 2017 ,		7
18	Metabolomics for undergraduates: Identification and pathway assignment of mitochondrial metabolites. <i>Biochemistry and Molecular Biology Education</i> , 2016 , 44, 38-54	1.3	6
17	Tuning the Bioactivity of Tensioactive Deoxy Glycosides to Structure: Antibacterial Activity Versus Selective Cholinesterase Inhibition Rationalized by Molecular Docking. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 1448-1459	3.2	6
16	Enlightening the molecular basis of trypanothione specificity in trypanosomatids: mutagenesis of <i>Leishmania infantum</i> glyoxalase II. <i>Experimental Parasitology</i> , 2011 , 129, 402-8	2.1	6
15	An apoplastic fluid extraction method for the characterization of grapevine leaves proteome and metabolome from a single sample. <i>Physiologia Plantarum</i> , 2021 , 171, 343-357	4.6	5
14	Chemico-Biological Characterization of Torpedino Di Fondi Tomato Fruits: A Comparison with San Marzano Cultivar at Two Ripeness Stages. <i>Antioxidants</i> , 2020 , 9,	7.1	4
13	ICT-Supported Interventions Targeting Pre-frailty: Healthcare Recommendations from the Personalised ICT Supported Service for Independent Living and Active Ageing (PERSSILAA) Study. <i>Communications in Computer and Information Science</i> , 2018 , 69-92	0.3	4
12	Early detection of <i>Plasmopara viticola</i> -infected leaves through FT-ICR-MS metabolic profiling. <i>Acta Horticulturae</i> , 2019 , 575-580	0.3	4

11	Grapevine Subtilase Family: Update on New Sequences and Nomenclature Proposal. <i>Frontiers in Plant Science</i> , 2017 , 8, 716	6.2	3
10	Binary Simplification as an Effective Tool in Metabolomics Data Analysis. <i>Metabolites</i> , 2021 , 11,	5.6	3
9	Pathogen-related specificity of subtilase VVISBT4.19 X1 in the <i>Vitis vinifera</i> defence response. <i>Ciencia E Tecnica Vitivinicola</i> , 2020 , 35, 42-48	1	3
8	FT-ICR-MS-based metabolomics: A deep dive into plant metabolism. <i>Mass Spectrometry Reviews</i> , 2021 ,	11	3
7	Glyoxalase Enzymes in Trypanosomatids 2013 , 153-166		2
6	Purification, crystallization and preliminary X-ray diffraction analysis of the glyoxalase II from <i>Leishmania infantum</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 805-7		2
5	Subtilisin-like proteins and lipid signalling events: the missing links in grapevine resistance to <i>Plasmopara viticola</i> . <i>Acta Horticulturae</i> , 2019 , 567-574	0.3	2
4	Comparison of the chemical diversity of <i>Vitis rotundifolia</i> and <i>Vitis vinifera</i> cv. Cabernet Sauvignon. <i>Ciencia E Tecnica Vitivinicola</i> , 2021 , 36, 1-8	1	2
3	Metabolomics and transcriptomics to decipher molecular mechanisms underlying ectomycorrhizal root colonization of an oak tree. <i>Scientific Reports</i> , 2021 , 11, 8576	4.9	1
2	Virus Disassembly Pathways Predicted from Geometry and Configuration Energy. <i>Communications in Computer and Information Science</i> , 2018 , 289-301	0.3	
1	Metabolic Network Inference from Time Series 2021 , 127-133		