Silas G Villas-BÃ'as

List of Publications by Year in descending order

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116 papers 6,231 citations

42 h-index 71685 **76** g-index

128 all docs $\begin{array}{c} 128 \\ \text{docs citations} \end{array}$

128 times ranked

8466 citing authors

#	Article	IF	CITATIONS
1	Identification of New Natural Sources of Flavour and Aroma Metabolites from Solid-State Fermentation of Agro-Industrial By-Products. Metabolites, 2022, 12, 157.	2.9	9
2	Impact of Pseudomonas sp. SVB-B33 on Stress- and Cell Wall-Related Genes in Roots and Leaves of Hemp under Salinity. Horticulturae, 2022, 8, 336.	2.8	5
3	Sound Stimulation Can Affect Saccharomyces cerevisiae Growth and Production of Volatile Metabolites in Liquid Medium. Metabolites, 2021, 11, 605.	2.9	6
4	Epipyrone A, a Broad-Spectrum Antifungal Compound Produced by Epicoccum nigrum ICMP 19927. Molecules, 2020, 25, 5997.	3.8	15
5	Trace biomarkers associated with spontaneous preterm birth from the maternal serum metabolome of asymptomatic nulliparous women – parallel case-control studies from the SCOPE cohort. Scientific Reports, 2019, 9, 13701.	3.3	11
6	Linking genetic, metabolic, and phenotypic diversity among <i>Saccharomyces cerevisiae</i> strains using multi-omics associations. GigaScience, 2019, 8, .	6.4	25
7	A metabolomic study of the effect of Candida albicans glutamate dehydrogenase deletion on growth and morphogenesis. Npj Biofilms and Microbiomes, 2019, 5, 13.	6.4	39
8	Juice Index: an integrated Sauvignon blanc grape and wine metabolomics database shows mainly seasonal differences. Metabolomics, 2019, 15, 3.	3.0	17
9	Human urine metabolomic signature after ingestion of polyphenol-rich juice of purple grumixama (Eugenia brasiliensis Lam.). Food Research International, 2019, 120, 544-552.	6.2	8
10	Pre-fermentative supplementation of fatty acids alters the metabolic activity of wine yeasts. Food Research International, 2019, 121, 835-844.	6.2	17
11	Whole grain-rich diet reduces body weight and systemic low-grade inflammation without inducing major changes of the gut microbiome: a randomised cross-over trial. Gut, 2019, 68, 83-93.	12.1	278
12	Metabolite secretion in microorganisms: the theory of metabolic overflow put to the test. Metabolomics, 2018, 14, 43.	3.0	66
13	Reference samples guide variable selection for correlation of wine sensory and volatile profiling data. Food Chemistry, 2018, 267, 344-354.	8.2	16
14	A low-gluten diet induces changes in the intestinal microbiome of healthy Danish adults. Nature Communications, 2018, 9, 4630.	12.8	124
15	Effect of free fatty acids and lipolysis on Sauvignon Blanc fermentation. Australian Journal of Grape and Wine Research, 2018, 24, 398-405.	2.1	13
16	The fate of linoleic acid on Saccharomyces cerevisiae metabolism under aerobic and anaerobic conditions. Metabolomics, 2018, 14, 103.	3.0	9
17	Mitochondrial mutations and metabolic adaptation in pancreatic cancer. Cancer & Metabolism, 2017, 5, 2.	5.0	51
18	Differential expression of novel metabolic and immunological biomarkers in oysters challenged with a virulent strain of OsHV-1. Developmental and Comparative Immunology, 2017, 73, 229-245.	2.3	50

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19	Impact of Grape Maturity and Ethanol Concentration on Sensory Properties of Washington State Merlot Wines. American Journal of Enology and Viticulture, 2017, 68, 344-356.	1.7	31
20	Modulation of Nitrous Oxide (N2O) Accumulation by Primary Metabolites in Denitrifying Cultures Adapting to Changes in Environmental C and N. Environmental Science & Environmental Science & 2017, 51, 13678-13688.	10.0	22
21	Genome Sequence of the Saprophytic Ascomycete Epicoccum nigrum Strain ICMP 19927, Isolated from New Zealand. Genome Announcements, 2017, 5, .	0.8	10
22	Fully Automated Trimethylsilyl (TMS) Derivatisation Protocol for Metabolite Profiling by GC-MS. Metabolites, 2017, 7, 1.	2.9	81
23	Rapid Quantification of Major Volatile Metabolites in Fermented Food and Beverages Using Gas Chromatography-Mass Spectrometry. Metabolites, 2017, 7, 37.	2.9	37
24	Extracellular Microbial Metabolomics: The State of the Art. Metabolites, 2017, 7, 43.	2.9	94
25	Analysis of Intracellular Metabolites from Microorganisms: Quenching and Extraction Protocols. Metabolites, 2017, 7, 53.	2.9	127
26	A Comparative Proteome Analysis of Escherichia coli ΔrelA Mutant Cells. Frontiers in Bioengineering and Biotechnology, 2016, 4, 78.	4.1	3
27	Metabolic Engineering of Fusarium oxysporum to Improve Its Ethanol-Producing Capability. Frontiers in Microbiology, 2016, 7, 632.	3.5	21
28	Vinegar Metabolomics: An Explorative Study of Commercial Balsamic Vinegars Using Gas Chromatography-Mass Spectrometry. Metabolites, 2016, 6, 22.	2.9	30
29	Linoleic acid increases ethanol production in Saccharomyces cerevisiae and is converted into conjugated linoleic acid under aerobiosis. New Biotechnology, 2016, 33, S205.	4.4	0
30	The effect of linoleic acid on the Sauvignon blanc fermentation by different wine yeast strains. FEMS Yeast Research, 2016, 16, fow050.	2.3	27
31	Use of metabolomics for the identification and validation of clinical biomarkers for preterm birth: Preterm SAMBA. BMC Pregnancy and Childbirth, 2016, 16, 212.	2.4	33
32	Introduction to Microbial Metabolomics. , 2016, , 1-12.		1
33	Calibration curve-free GC–MS method for quantitation of amino and non-amino organic acids in biological samples. Metabolomics, 2016, 12, 1.	3.0	15
34	Assessment of nitric oxide (NO) redox reactions contribution to nitrous oxide (N ₂ O) formation during nitrification using a multispecies metabolic network model. Biotechnology and Bioengineering, 2016, 113, 1124-1136.	3.3	11
35	Maternal-fetal hepatic and placental metabolome profiles are associated with reduced fetal growth in a rat model of maternal obesity. Metabolomics, 2016, 12, 1.	3.0	4
36	Metabolic profiling of mussel larvae: effect of handling and culture conditions. Aquaculture International, 2016, 24, 843-856.	2.2	18

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37	Maternal hair metabolome analysis identifies a potential marker of lipid peroxidation in gestational diabetes mellitus. Acta Diabetologica, 2016, 53, 119-122.	2.5	34
38	Metabolite Profile of Cervicovaginal Fluids from Early Pregnancy Is Not Predictive of Spontaneous Preterm Birth. International Journal of Molecular Sciences, 2015, 16, 27741-27748.	4.1	16
39	Postprandial Responses to Lipid and Carbohydrate Ingestion in Repeated Subcutaneous Adipose Tissue Biopsies in Healthy Adults. Nutrients, 2015, 7, 5347-5361.	4.1	9
40	Comprehensive lipidome profiling of Sauvignon blanc grape juice. Food Chemistry, 2015, 180, 249-256.	8.2	27
41	Metabolite profiling of symbiont and host during thermal stress and bleaching in a model cnidarian-dinoflagellate symbiosis. Journal of Experimental Biology, 2015, 219, 516-27.	1.7	52
42	Chemicals eluting from disposable plastic syringes and syringe filters alter neurite growth, axogenesis and the microtubule cytoskeleton in cultured hippocampal neurons. Journal of Neurochemistry, 2015, 133, 53-65.	3.9	23
43	Identification of candidate biomarkers for quality assessment of hatchery-reared mussel larvae via GC/MS-based metabolomics. New Zealand Journal of Marine and Freshwater Research, 2015, 49, 87-95.	2.0	26
44	Metabolic fingerprinting of Lactobacillus paracasei: the optimal quenching strategy. Microbial Cell Factories, 2015, 14, 132.	4.0	12
45	Can we predict the intracellular metabolic state of a cell based on extracellular metabolite data?. Molecular BioSystems, 2015, 11, 3297-3304.	2.9	21
46	Fish oil supplements in New Zealand are highly oxidised and do not meet label content of n-3 PUFA. Scientific Reports, 2015, 5, 7928.	3.3	176
47	Early pregnancy metabolite profiling discovers a potential biomarker for the subsequent development of gestational diabetes mellitus. Acta Diabetologica, 2014, 51, 887-890.	2.5	55
48	<i>Lactobacillus acidophilus</i> NCFM affects vitamin E acetate metabolism and intestinal bile acid signature in monocolonized mice. Gut Microbes, 2014, 5, 296-495.	9.8	19
49	A Method to Calibrate Metabolic Network Models with Experimental Datasets. Advances in Intelligent Systems and Computing, 2014, , 183-190.	0.6	5
50	Hair Metabolomics: Identification of Fetal Compromise Provides Proof of Concept for Biomarker Discovery. Theranostics, 2014, 4, 953-959.	10.0	68
51	Sauvignon blanc metabolomics: grape juice metabolites affecting the development of varietal thiols and other aroma compounds in wines. Metabolomics, 2014, 10, 556-573.	3.0	74
52	Nitrogen and carbon assimilation by <i> Saccharomyces cerevisiae < /i > during Sauvignon blanc juice fermentation. FEMS Yeast Research, 2014, 14, 1206-1222.</i>	2.3	33
53	What is the relationship between intracellular and extracellular metabolites? The theory of "metabolic overflow―put into test. New Biotechnology, 2014, 31, S28-S29.	4.4	1
54	Global Metabolic Response of Enterococcus faecalis to Oxygen. Journal of Bacteriology, 2014, 196, 2012-2022.	2.2	37

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55	Constitutive homologous expression of phosphoglucomutase and transaldolase increases the metabolic flux of Fusarium oxysporum. Microbial Cell Factories, 2014, 13, 43.	4.0	18
56	Clarifying the regulation of NO/N2O production in Nitrosomonas europaea during anoxic–oxic transition via flux balance analysis of a metabolic network model. Water Research, 2014, 60, 267-277.	11.3	47
57	The Growth and Survival of Mycobacterium smegmatis Is Enhanced by Co-Metabolism of Atmospheric H2. PLoS ONE, 2014, 9, e103034.	2.5	55
58	Stable isotope coded derivatizing reagents as internal standards in metabolite profiling. Journal of Chromatography A, 2013, 1296, 196-203.	3.7	97
59	Algorithms to infer metabolic flux ratios from fluxomics data. , 2013, , .		0
60	ANALYTICAL TECHNIQUES & Amp; APPLICATIONS OF METABOLOMICS IN SYSTEMS MEDICINE AND SYSTEMS BIOTECHNOLOGY. Computational and Structural Biotechnology Journal, 2013, 4, e201301001.	4.1	2
61	Genome scale metabolic network reconstruction of the pathogen Enterococcus faecalis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 131-136.	0.4	1
62	Bioengineering Silicon Quantum Dot Theranostics using a Network Analysis of Metabolomic and Proteomic Data in Cardiac Ischemia. Theranostics, 2013, 3, 719-728.	10.0	17
63	Metabolic Response of Candida albicans to Phenylethyl Alcohol under Hyphae-Inducing Conditions. PLoS ONE, 2013, 8, e71364.	2.5	21
64	Automated high through-put analysis of fractions generated during the isolation of natural products. New Zealand Journal of Agricultural Research, 2012, 55, 15-20.	1.6	1
65	Toxin-Antitoxin Systems of Mycobacterium smegmatis Are Essential for Cell Survival. Journal of Biological Chemistry, 2012, 287, 5340-5356.	3.4	59
66	Transcriptional and Metabolomic Consequences of <i>luxS</i> Inactivation Reveal a Metabolic Rather than Quorum-Sensing Role for LuxS in Lactobacillus reuteri 100-23. Journal of Bacteriology, 2012, 194, 1743-1746.	2.2	31
67	The metabolic response of <i>Candida albicans < /i> to farnesol under hyphae-inducing conditions. FEMS Yeast Research, 2012, 12, 879-889.</i>	2.3	28
68	Linear Ion Trap MS ⁿ of Enzymatically Synthesized 13C-Labeled Fructans Revealing Differentiating Fragmentation Patterns of \hat{I}^2 (1-2) and \hat{I}^2 (1-6) Fructans and Providing a Tool for Oligosaccharide Identification in Complex Mixtures. Analytical Chemistry, 2012, 84, 1540-1548.	6. 5	29
69	Concentrations of the Volatile Thiol 3-Mercaptohexanol in Sauvignon blanc Wines: No Correlation with Juice Precursors. American Journal of Enology and Viticulture, 2012, 63, 407-412.	1.7	43
70	Influence of the RelA Activity on E. coli Metabolism by Metabolite Profiling of Glucose-Limited Chemostat Cultures. Metabolites, 2012, 2, 717-732.	2.9	9
71	Metabolome analysis during the morphological transition of Candida albicans. Metabolomics, 2012, 8, 1204-1217.	3.0	24
72	The biological interpretation of metabolomic data can be misled by the extraction method used. Metabolomics, 2012, 8, 410-421.	3.0	90

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73	Sonic vibration affects the metabolism of yeast cells growing in liquid culture: a metabolomic study. Metabolomics, 2012, 8, 670-678.	3.0	47
74	Metab: an R package for high-throughput analysis of metabolomics data generated by GC-MS. Bioinformatics, 2011, 27, 2316-2318.	4.1	123
75	The metabolic basis of Candida albicans morphogenesis and quorum sensing. Fungal Genetics and Biology, 2011, 48, 747-763.	2.1	141
76	Metabolic footprint analysis of recombinant Escherichia coli strains during fed-batch fermentations. Molecular BioSystems, 2011, 7, 899-910.	2.9	34
77	Highly Sensitive GC/MS/MS Method for Quantitation of Amino and Nonamino Organic Acids. Analytical Chemistry, 2011, 83, 2705-2711.	6.5	121
78	Species-Specific Chemical Signatures in Scale Insect Honeydew. Journal of Chemical Ecology, 2011, 37, 1231-1241.	1.8	24
79	Analysis of high-molecular-weight fructan polymers in crude plant extracts by high-resolution LC-MS. Analytical and Bioanalytical Chemistry, 2011, 401, 2955-2963.	3.7	23
80	An Exometabolomics Approach to Monitoring Microbial Contamination in Microalgal Fermentation Processes by Using Metabolic Footprint Analysis. Applied and Environmental Microbiology, 2011, 77, 7605-7610.	3.1	32
81	Alkylation or Silylation for Analysis of Amino and Non-Amino Organic Acids by GC-MS?. Metabolites, 2011, 1, 3-20.	2.9	123
82	Applying a Metabolic Footprinting Approach to Characterize the Impact of the Recombinant Protein Production in Escherichia coli. Advances in Intelligent and Soft Computing, 2010, , 193-200.	0.2	1
83	Structural and functional characterization of a promiscuous feruloyl esterase (Est1E) from the rumen bacterium <i>Butyrivibrio proteoclasticus</i> Bioinformatics, 2010, 78, 1457-1469.	2.6	62
84	Analytical platform for metabolome analysis of microbial cells using methyl chloroformate derivatization followed by gas chromatography–mass spectrometry. Nature Protocols, 2010, 5, 1709-1729.	12.0	360
85	Evaluation of the Beneficial Effects of Phytonutrients by Metabolomics. , 2010, , 287-296.		O
86	Pathway Activity Profiling (PAPi): from the metabolite profile to the metabolic pathway activity. Bioinformatics, 2010, 26, 2969-2976.	4.1	107
87	Pigment production by New Zealand microbes: screening and industrial application. New Biotechnology, 2009, 25, S70.	4.4	1
88	A reverse-phase liquid chromatography/mass spectrometry method for the analysis of high-molecular-weight fructooligosaccharides. Analytical Biochemistry, 2009, 395, 113-115.	2.4	26
89	Linking high-resolution metabolic flux phenotypes and transcriptional regulation in yeast modulated by the global regulator Gcn4p. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6477-6482.	7.1	154
90	Phenotypic characterization of transposon-inserted mutants of Clostridium proteoclasticum B316T using extracellular metabolomics. Journal of Biotechnology, 2008, 134, 55-63.	3.8	18

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91	The Potential of Metabolomics Tools in Bioremediation Studies. OMICS A Journal of Integrative Biology, 2007, 11, 305-313.	2.0	68
92	Analytical methods from the perspective of method standardization. Topics in Current Genetics, 2007, , $11\text{-}52$.	0.7	17
93	A comparison of direct infusion MS and GC-MS for metabolic footprinting of yeast mutants. Biotechnology and Bioengineering, 2007, 96, 1014-1022.	3.3	45
94	Cold glycerol–saline: The promising quenching solution for accurate intracellular metabolite analysis of microbial cells. Analytical Biochemistry, 2007, 370, 87-97.	2.4	142
95	Rapid estimation of polysaccharide content in complex microbial culture media. World Journal of Microbiology and Biotechnology, 2007, 23, 873-876.	3.6	3
96	Extracellular metabolomics: A metabolic footprinting approach to assess fiber degradation in complex media. Analytical Biochemistry, 2006, 349, 297-305.	2.4	94
97	High-throughput metabolic state analysis: the missing link in integrated functional genomics of yeasts. Biochemical Journal, 2005, 388, 669-677.	3.7	147
98	Fermentation performance and intracellular metabolite profiling of Fusarium oxysporum cultivated on a glucose–xylose mixture. Enzyme and Microbial Technology, 2005, 36, 100-106.	3.2	43
99	Biosynthesis of glyoxylate from glycine in. FEMS Yeast Research, 2005, 5, 703-709.	2.3	31
100	Metabolomics or metabolite profiles?. Trends in Biotechnology, 2005, 23, 385-386.	9.3	72
101	Metabolite profiling for analysis of yeast stress response during very high gravity ethanol fermentations. Biotechnology and Bioengineering, 2005, 90, 703-714.	3.3	116
102	Mass spectrometry in metabolome analysis. Mass Spectrometry Reviews, 2005, 24, 613-646.	5.4	513
103	Global metabolite analysis of yeast: evaluation of sample preparation methods. Yeast, 2005, 22, 1155-1169.	1.7	365
104	Intracellular metabolite profiling of Fusarium oxysporum converting glucose to ethanol. Journal of Biotechnology, 2005, 115, 425-434.	3.8	78
105	Title is missing!. World Journal of Microbiology and Biotechnology, 2003, 19, 461-467.	3.6	62
106	Simultaneous analysis of amino and nonamino organic acids as methyl chloroformate derivatives using gas chromatography–mass spectrometry. Analytical Biochemistry, 2003, 322, 134-138.	2.4	177
107	Microbial conversion of lignocellulosic residues for production of animal feeds. Animal Feed Science and Technology, 2002, 98, 1-12.	2.2	111
108	Fermentation performance and intracellular metabolite patterns in laboratory and industrial xylose-fermenting Saccharomyces cerevisiae. Applied Microbiology and Biotechnology, 2002, 59, 436-442.	3.6	98

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109	Title is missing!. World Journal of Microbiology and Biotechnology, 2002, 18, 541-545.	3.6	34
110	Sampling and Sample Preparation. , 0, , 39-82.		14
111	Metabolomics in Humans and Other Mammals. , 0, , 253-288.		9
112	Metabolomics in Functional Genomics and Systems Biology. , 0, , 1-14.		1
113	Plant Metabolomics., 0,, 215-238.		1
114	Yeast Metabolomics: The Discovery of New Metabolic Pathways in Saccharomyces Cerevisiae., 0,, 189-202.		2
115	Microbial Metabolomics: Rapid Sampling Techniques to Investigate Intracellular Metabolite Dynamicsâ€"An Overview. , 0, , 203-214.		2
116	Analytical Tools. , 0, , 83-145.		1