Gustavo ZuÃ±iga

List of Publications by Year
in descending order

61	1,948	236925 25	276875 41
papers	citations	h-index	g-index

63	63	63	2603
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cold resistance in Antarctic angiosperms. Physiologia Plantarum, 2001, 111, 55-65.	5.2	120
2	Hydroxamic acid content in wild and cultivated gramineae. Phytochemistry, 1983, 22, 2665-2668.	2.9	108
3	Effect of cadmium on phenolic compounds, antioxidant enzyme activity and oxidative stress in blueberry (Vaccinium corymbosum L.) plantlets grown in vitro. Ecotoxicology and Environmental Safety, 2016, 133, 316-326.	6.0	102
4	Ethylene production and peroxidase activity in aphid-infested barley. Journal of Chemical Ecology, 2001, 27, 53-68.	1.8	92
5	ANTIOXIDANT COMPOUNDS IN SKIN AND PULP OF FRUITS CHANGE AMONG GENOTYPES AND MATURITY STAGES IN HIGHBUSH BLUEBERRY (Vaccinium corymbosum L.) GROWN IN SOUTHERN CHILE. Journal of Soil Science and Plant Nutrition, 2010, 10, 509-536.	3.4	85
6	The role of ABA in freezing tolerance and cold acclimation in barley. Physiologia Plantarum, 1998, 103, 17-23.	5.2	84
7	The 2019/2020 summer of Antarctic heatwaves. Global Change Biology, 2020, 26, 3178-3180.	9.5	71
8	Isolation and Characterization of Phenolic Compounds and Anthocyanins from Murta (Ugni molinae) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.8	67
9	Major components of Spanish cultivated Artemisia absinthium populations: Antifeedant, antiparasitic, and antioxidant effects. Industrial Crops and Products, 2012, 37, 401-407.	5.2	57
10	Distribution of gramine and hydroxamic acids in barley and wheat leaves. Phytochemistry, 1987, 26, 1917-1918.	2.9	56
11	Interactive effects of aluminum and cadmium on phenolic compounds, antioxidant enzyme activity and oxidative stress in blueberry (Vaccinium corymbosum L.) plantlets cultivated in vitro. Ecotoxicology and Environmental Safety, 2018, 150, 320-326.	6.0	55
12	Effect of gramine in the resistance of barley seedlings to the aphid Rhopalosiphum padi. Entomologia Experimentalis Et Applicata, 1986, 40, 259-262.	1.4	54
13	Antioxidant Responses Induced by UVB Radiation in Deschampsia antarctica Desv.. Frontiers in Plant Science, 2017, 8, 921.	3.6	53
14	Effect of gramine on the feeding behavior of the aphids Schizaphis graminum and Rhopalosiphum padi. Entomologia Experimentalis Et Applicata, 1988, 47, 161-165.	1.4	42
15	Effect of infestation by aphids on the water status of barley and insect development. Phytochemistry, 1995, 40, 1083-1088.	2.9	42
16	Non-structural carbohydrates in Deschampsia Antarctica desv. from South Shetland Islands, maritime antarctic. Environmental and Experimental Botany, 1996, 36, 393-399.	4.2	41
17	It Is Hot in the Sun: Antarctic Mosses Have High Temperature Optima for Photosynthesis Despite Cold Climate. Frontiers in Plant Science, 2020, 11, 1178.	3.6	40
18	Induction of Soluble and Cell Wall Peroxidases by Aphid Infestation in Barley. Journal of Agricultural and Food Chemistry, 2001, 49, 2249-2253.	5.2	38

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19	Abscisic acid and jasmonic acid affect proteinase inhibitor activities in barley leaves. Journal of Plant Physiology, 2004, 161, 389-396.	3.5	35
20	Changes in ferulic acid and lipid content in aphid-infested barley. Phytochemistry, 1995, 39, 1023-1026.	2.9	31
21	Effect of methyl jasmonate, sodium selenate and chitosan as exogenous elicitors on the phenolic compounds profile of broccoli sprouts. Journal of the Science of Food and Agriculture, 2014, 94, 2555-2561.	3.5	31
22	RUN1 and REN1 Pyramiding in Grapevine (Vitis vinifera cv. Crimson Seedless) Displays an Improved Defense Response Leading to Enhanced Resistance to Powdery Mildew (Erysiphe necator). Frontiers in Plant Science, 2017, 8, 758.	3.6	31
23	Effects of NaCl on glycine-betaine and on aphids in cereal seedlings. Phytochemistry, 1991, 30, 1793-1795.	2.9	28
24	Effects of hydroxamic acids on electron transport and their cellular location in corn. Phytochemistry, 1994, 35, 873-876.	2.9	28
25	Copper stress induces antioxidant responses and accumulation of sugars and phytochelatins in Antarctic Colobanthus quitensis (Kunth) Bartl.. Biological Research, 2018, 51, 48.	3.4	28
26	Desiccation tolerance in the Antarctic moss Sanionia uncinata. Biological Research, 2019, 52, 46.	3.4	28
27	Browning inAnnona cherimolaFruit: Role of Polyphenol Oxidase and Characterization of a Coding Sequence of the Enzyme. Journal of Agricultural and Food Chemistry, 2007, 55, 9208-9218.	5.2	27
28	Effect of ionizing energy on extracts of Quillaja saponaria to be used as an antimicrobial agent on irradiated edible coating for fresh strawberries. Radiation Physics and Chemistry, 2012, 81, 64-69.	2.8	27
29	Effects of conventional and organic nitrogen fertilizers on soil microbial activity, mycorrhizal colonization, leaf antioxidant content, and Fusarium wilt in highbush blueberry (Vaccinium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T		26
30	Hydroxamic acid content in undifferentiated and differentiated tissues of wheat. Phytochemistry, 1991, 30, 3281-3283.	2.9	25
31	Phytochemistry and biological properties of Aristotelia chilensis a Chilean blackberry: a review. Phytochemistry Reviews, 2017, 16, 1081-1094.	6.5	24
32	Insect Antifeedant and Ixodicidal Compounds from Senecio adenotrichius. Chemistry and Biodiversity, 2017, 14, e1600155.	2.1	23
33	Lipid content in leaves of Deschampsia antarctica from the maritime antarctic. Phytochemistry, 1994, 37, 669-672.	2.9	21
34	Oligo-Carrageenan Kappa-Induced Reducing Redox Status and Activation of TRR/TRX System Increase the Level of Indole-3-acetic Acid, Gibberellin A3 and trans-Zeatin in Eucalyptus globulus Trees. Molecules, 2014, 19, 12690-12698.	3.8	21
35	Distribution of glycine-betaine and proline in water stressed and unstressed barley leaves. Phytochemistry, 1989, 28, 419-420.	2.9	20
36	Effect of water stress on frost resistance of oat leaves. Environmental and Experimental Botany, 1997, 38, 99-107.	4.2	19

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37	Glycine-betaine accumulation influences susceptibility of water-stressed barley to the aphid Schizaphis graminum. Phytochemistry, 1987, 26, 367-369.	2.9	18
38	Hydroxamic acids accumulation by wheat callus. Phytochemistry, 1990, 29, 2139-2141.	2.9	18
39	Soluble carbohydrate content variation in Sanionia uncinata and Polytrichastrum alpinum, two Antarctic mosses with contrasting desiccation capacities. Biological Research, 2016, 49, 6.	3.4	18
40	Passive warming reduces stress and shifts reproductive effort in the Antarctic moss,Polytrichastrum alpinum. Annals of Botany, 2017, 119, 27-38.	2.9	18
41	UV-B shock induces photoprotective flavonoids but not antioxidant activity in Antarctic Colobanthus quitensis (Kunth) Bartl. Environmental and Experimental Botany, 2019, 159, 179-190.	4.2	18
42	Effect of extracts from inÂvitro-grown shoots of Quillaja saponaria Mol. on Botrytis cinerea Pers.. World Journal of Microbiology and Biotechnology, 2008, 24, 1803-1811.	3.6	15
43	Longâ€term protection against tobacco mosaic virus induced by the marine alga oligoâ€sulphatedâ€galactan Polyâ€Ca in tobacco plants. Molecular Plant Pathology, 2011, 12, 437-447.	4.2	14
44	In Vitro Cultivars of Vaccinium corymbosum L. (Ericaceae) are a Source of Antioxidant Phenolics. Antioxidants, 2015, 4, 281-292.	5.1	14
45	Short Note: Micropropagation of Antarctic Colobanthus quitensis. Antarctic Science, 2009, 21, 149-150.	0.9	13
46	Evaluation of zeolite, nanomagnetite, and nanomagnetite-zeolite composite materials as arsenic (V) adsorbents in hydroponic tomato cultures. Science of the Total Environment, 2021, 751, 141623.	8.0	13
47	Molecular characterization of the chalcone isomerase gene family in Deschampsia antarctica. Polar Biology, 2013, 36, 1269-1280.	1.2	12
48	Antioxidant responses ofin vitroshoots ofDeschampsia antarcticato Polyethylene glycol treatment. Antarctic Science, 2010, 22, 163-169.	0.9	10
49	Oligo-carrageenan kappa increases glucose, trehalose and TOR-P and subsequently stimulates the expression of genes involved in photosynthesis, and basal and secondary metabolisms in Eucalyptus globulus. BMC Plant Biology, 2019, 19, 258.	3.6	10
50	Bayesian methods for comparing species physiological and ecological response curves. Ecological Informatics, 2016, 34, 35-43.	5.2	9
51	Phenotypic Analysis of Mutants of Ergosterol Biosynthesis Genes (ERG3 and ERG4) in the Red Yeast Xanthophyllomyces dendrorhous. Frontiers in Microbiology, 2020, 11, 1312.	3.5	9
52	Deschampsia antarctica Desv. primary photochemistry performs differently in plants grown in the field and laboratory. Polar Biology, 2010, 33, 477-483.	1.2	8
53	FcLDP1, a Gene Encoding a Late Embryogenesis Abundant (LEA) Domain Protein, Responds to Brassinosteroids and Abscisic Acid during the Development of Fruits in Fragaria chiloensis. Frontiers in Plant Science, 2016, 7, 788.	3.6	7
54	Water deficit and abscisic acid treatments increase the expression of a glucomannan mannosyltransferase gene (GMMT) in Aloe vera Burm. F.. Phytochemistry, 2019, 159, 90-101.	2.9	7

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55	Glycine-betaine in wilted barley reduces the effects of gramine on aphids. Phytochemistry, 1987, 26, 3197-3200.	2.9	6
56	Cold storage effects on oxidative stress of Red Globe table grape rachises. Ciencia E Investigacion Agraria, 2012, 39, 91-104.	0.2	6
57	IMPROVEMENT OF THE ANTIFUNGAL ACTIVITY AGAINST BOTRYTIS CINEREA OF SYRINGIC ACID, A PHENOLIC ACID FROM GRAPE POMACE. Journal of the Chilean Chemical Society, 2016, 61, 3039-3042.	1.2	6
58	Effect of yâ€•radiation on chives safety and quality. International Journal of Food Science and Technology, 2012, 47, 2436-2443.	2.7	5
59	Efecto de la radiacion ultravioleta B en la produccion de polifenoles en la microalga marina Chlorella sp.. Latin American Journal of Aquatic Research, 2012, 40, 113-123.	0.6	5
60	Freezing tolerance of barley seedlings infested by aphids. Journal of Plant Physiology, 1997, 150, 611-614.	3.5	3
61	Non-structural carbohydrate content in cryptogamic Antarctic species after two years of passive warming on the Fildes Peninsula. Czech Polar Reports, 2015, 5, 88-98.	0.6	3