

# Gustavo Zuñiga

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,948  
citations

236925

25  
h-index

276875

41  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2603  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Evaluation of zeolite, nanomagnetite, and nanomagnetite-zeolite composite materials as arsenic (V) adsorbents in hydroponic tomato cultures. <i>Science of the Total Environment</i> , 2021, 751, 141623.   | 8.0 | 13        |
| 2  | It Is Hot in the Sun: Antarctic Mosses Have High Temperature Optima for Photosynthesis Despite Cold Climate. <i>Frontiers in Plant Science</i> , 2020, 11, 1178.  | 3.6 | 40        |
| 3  | Phenotypic Analysis of Mutants of Ergosterol Biosynthesis Genes (ERG3 and ERG4) in the Red Yeast <i>Xanthophyllomyces dendrorhous</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 1312.  | 3.5 | 9         |
| 4  | The 2019/2020 summer of Antarctic heatwaves. <i>Global Change Biology</i> , 2020, 26, 3178-3180.  | 9.5 | 71        |
| 5  | Desiccation tolerance in the Antarctic moss <i>Sanionia uncinata</i> . <i>Biological Research</i> , 2019, 52, 46.   | 3.4 | 28        |
| 6  | 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 <i>Eucalyptus globulus</i> . <i>BMC Plant Biology</i> , 2019, 19, 258.          | 3.6 | 10        |
| 7  | UV-B shock induces photoprotective flavonoids but not antioxidant activity in Antarctic <i>Colobanthus quitensis</i> (Kunth) Bartl. <i>Environmental and Experimental Botany</i> , 2019, 159, 179-190.  | 4.2 | 18        |
| 8  | Water deficit and abscisic acid treatments increase the expression of a glucomannan mannosyltransferase gene (GMMT) in <i>Aloe vera</i> Burm. F.. <i>Phytochemistry</i> , 2019, 159, 90-101.  | 2.9 | 7         |
| 9  | Interactive effects of aluminum and cadmium on phenolic compounds, antioxidant enzyme activity and oxidative stress in blueberry ( <i>Vaccinium corymbosum</i> L.) plantlets cultivated in vitro. <i>Ecotoxicology and Environmental Safety</i> , 2018, 150, 320-326. | 6.0 | 55        |
| 10 | Copper stress induces antioxidant responses and accumulation of sugars and phytochelatins in Antarctic <i>Colobanthus quitensis</i> (Kunth) Bartl.. <i>Biological Research</i> , 2018, 51, 48.  | 3.4 | 28        |
| 11 | Phytochemistry and biological properties of <i>Aristotelia chilensis</i> a Chilean blackberry: a review. <i>Phytochemistry Reviews</i> , 2017, 16, 1081-1094.   | 6.5 | 24        |
| 12 | Passive warming reduces stress and shifts reproductive effort in the Antarctic moss, <i>Polytrichastrum alpinum</i> . <i>Annals of Botany</i> , 2017, 119, 27-38.   | 2.9 | 18        |
| 13 | Insect Antifeedant and Ixodidical Compounds from <i>Senecio adenotrichius</i> . <i>Chemistry and Biodiversity</i> , 2017, 14, e1600155.   | 2.1 | 23        |
| 14 | RUN1 and REN1 Pyramiding in Grapevine ( <i>Vitis vinifera</i> cv. Crimson Seedless) Displays an Improved Defense Response Leading to Enhanced Resistance to Powdery Mildew ( <i>Erysiphe necator</i> ). <i>Frontiers in Plant Science</i> , 2017, 8, 758.             | 3.6 | 31        |
| 15 | Antioxidant Responses Induced by UVB Radiation in <i>Deschampsia antarctica</i> Desv.. <i>Frontiers in Plant Science</i> , 2017, 8, 921.  | 3.6 | 53        |
| 16 | IMPROVEMENT OF THE ANTIFUNGAL ACTIVITY AGAINST <i>BOTRYTIS CINEREA</i> OF SYRINGIC ACID, A PHENOLIC ACID FROM GRAPE POMACE. <i>Journal of the Chilean Chemical Society</i> , 2016, 61, 3039-3042.   | 1.2 | 6         |
| 17 | FcLDP1, a Gene Encoding a Late Embryogenesis Abundant (LEA) Domain Protein, Responds to Brassinosteroids and Abscisic Acid during the Development of Fruits in <i>Fragaria chiloensis</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 788.                         | 3.6 | 7         |
| 18 | Bayesian methods for comparing species physiological and ecological response curves. <i>Ecological Informatics</i> , 2016, 34, 35-43.   | 5.2 | 9         |

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|----|--|-----|-----------|
| 19 | Effect of cadmium on phenolic compounds, antioxidant enzyme activity and oxidative stress in blueberry ( <i>Vaccinium corymbosum</i> L.) plantlets grown in vitro. <i>Ecotoxicology and Environmental Safety</i> , 2016, 133, 316-326.               | 6.0 | 102       |
| 20 | Soluble carbohydrate content variation in <i>Sanionia uncinata</i> and <i>Polytrichastrum alpinum</i> , two Antarctic mosses with contrasting desiccation capacities. <i>Biological Research</i> , 2016, 49, 6.                                      | 3.4 | 18        |
| 21 | In Vitro Cultivars of <i>Vaccinium corymbosum</i> L. (Ericaceae) are a Source of Antioxidant Phenolics. <i>Antioxidants</i> , 2015, 4, 281-292.  | 5.1 | 14        |
| 22 | Isolation and Characterization of Phenolic Compounds and Anthocyanins from Murta ( <i>Ugni molinae</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T6 57 Td   | 3.8 | 67        |
| 23 | Non-structural carbohydrate content in cryptogamic Antarctic species after two years of passive warming on the Fildes Peninsula. <i>Czech Polar Reports</i> , 2015, 5, 88-98.  | 0.6 | 3         |
| 24 | 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 <i>Eucalyptus globulus</i> Trees. <i>Molecules</i> , 2014, 19, 12690-12698.    | 3.8 | 21        |
| 25 | Effect of methyl jasmonate, sodium selenate and chitosan as exogenous elicitors on the phenolic compounds profile of broccoli sprouts. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 2555-2561.                                  | 3.5 | 31        |
| 26 | Molecular characterization of the chalcone isomerase gene family in <i>Deschampsia antarctica</i> . <i>Polar Biology</i> , 2013, 36, 1269-1280.  | 1.2 | 12        |
| 27 | Effect of γ-radiation on chives safety and quality. <i>International Journal of Food Science and Technology</i> , 2012, 47, 2436-2443.   | 2.7 | 5         |
| 28 | Cold storage effects on oxidative stress of Red Globe table grape rachises. <i>Ciencia E Investigacion Agraria</i> , 2012, 39, 91-104.   | 0.2 | 6         |
| 29 | Major components of Spanish cultivated <i>Artemisia absinthium</i> populations: Antifeedant, antiparasitic, and antioxidant effects. <i>Industrial Crops and Products</i> , 2012, 37, 401-407.   | 5.2 | 57        |
| 30 | Effect of ionizing energy on extracts of <i>Quillaja saponaria</i> to be used as an antimicrobial agent on irradiated edible coating for fresh strawberries. <i>Radiation Physics and Chemistry</i> , 2012, 81, 64-69.                               | 2.8 | 27        |
| 31 | Efecto de la radiacion ultravioleta B en la produccion de polifenoles en la microalga marina <i>Chlorella</i> sp.. <i>Latin American Journal of Aquatic Research</i> , 2012, 40, 113-123.  | 0.6 | 5         |
| 32 | Long-term protection against tobacco mosaic virus induced by the marine alga oligo-sulphated galactan PolyCa in tobacco plants. <i>Molecular Plant Pathology</i> , 2011, 12, 437-447.  | 4.2 | 14        |
| 33 | ANTIOXIDANT COMPOUNDS IN SKIN AND PULP OF FRUITS CHANGE AMONG GENOTYPES AND MATURITY STAGES IN HIGHBUSH BLUEBERRY ( <i>Vaccinium corymbosum</i> L.) GROWN IN SOUTHERN CHILE. <i>Journal of Soil Science and Plant Nutrition</i> , 2010, 10, 509-536. | 3.4 | 85        |
| 34 | <i>Deschampsia antarctica</i> Desv. primary photochemistry performs differently in plants grown in the field and laboratory. <i>Polar Biology</i> , 2010, 33, 477-483.   | 1.2 | 8         |
| 35 | Antioxidant responses of <i>in vitro</i> shoots of <i>Deschampsia antarctica</i> to Polyethylene glycol treatment. <i>Antarctic Science</i> , 2010, 22, 163-169.   | 0.9 | 10        |
| 36 | Effects of conventional and organic nitrogen fertilizers on soil microbial activity, mycorrhizal colonization, leaf antioxidant content, and Fusarium wilt in highbush blueberry ( <i>Vaccinium</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T6 50 57 Td     | 1.6 | 57        |

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|----|---|-----|-----------|
| 37 | Short Note: Micropropagation of Antarctic <i>Colobanthus quitensis</i> . Antarctic Science, 2009, 21, 149-150.  | 0.9 | 13        |
| 38 | Effect of extracts from in vitro-grown shoots of <i>Quillaja saponaria</i> Mol. on <i>Botrytis cinerea</i> Pers.. World Journal of Microbiology and Biotechnology, 2008, 24, 1803-1811.         | 3.6 | 15        |
| 39 | Browning in <i>Annona cherimola</i> Fruit: 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        |
| 40 | Abscisic acid and jasmonic acid affect proteinase inhibitor activities in barley leaves. Journal of Plant Physiology, 2004, 161, 389-396.   | 3.5 | 35        |
| 41 | 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        |
| 42 | Cold resistance in Antarctic angiosperms. Physiologia Plantarum, 2001, 111, 55-65.  | 5.2 | 120       |
| 43 | Ethylene production and peroxidase activity in aphid-infested barley. Journal of Chemical Ecology, 2001, 27, 53-68.   | 1.8 | 92        |
| 44 | The role of ABA in freezing tolerance and cold acclimation in barley. Physiologia Plantarum, 1998, 103, 17-23.  | 5.2 | 84        |
| 45 | Effect of water stress on frost resistance of oat leaves. Environmental and Experimental Botany, 1997, 38, 99-107.  | 4.2 | 19        |
| 46 | Freezing tolerance of barley seedlings infested by aphids. Journal of Plant Physiology, 1997, 150, 611-614.   | 3.5 | 3         |
| 47 | Non-structural carbohydrates in <i>Deschampsia Antarctica</i> desv. from South Shetland Islands, maritime antarctic. Environmental and Experimental Botany, 1996, 36, 393-399.                  | 4.2 | 41        |
| 48 | Changes in ferulic acid and lipid content in aphid-infested barley. Phytochemistry, 1995, 39, 1023-1026.  | 2.9 | 31        |
| 49 | Effect of infestation by aphids on the water status of barley and insect development. Phytochemistry, 1995, 40, 1083-1088.  | 2.9 | 42        |
| 50 | Lipid content in leaves of <i>Deschampsia antarctica</i> from the maritime antarctic. Phytochemistry, 1994, 37, 669-672.  | 2.9 | 21        |
| 51 | Effects of hydroxamic acids on electron transport and their cellular location in corn. Phytochemistry, 1994, 35, 873-876.   | 2.9 | 28        |
| 52 | Hydroxamic acid content in undifferentiated and differentiated tissues of wheat. Phytochemistry, 1991, 30, 3281-3283.   | 2.9 | 25        |
| 53 | Effects of NaCl on glycine-betaine and on aphids in cereal seedlings. Phytochemistry, 1991, 30, 1793-1795.  | 2.9 | 28        |
| 54 | Hydroxamic acids accumulation by wheat callus. Phytochemistry, 1990, 29, 2139-2141.   | 2.9 | 18        |

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|----|--|-----|-----------|
| 55 | Distribution of glycine-betaine and proline in water stressed and unstressed barley leaves. <i>Phytochemistry</i> , 1989, 28, 419-420.   | 2.9 | 20        |
| 56 | Effect of gramine on the feeding behavior of the aphids <i>Schizaphis graminum</i> and <i>Rhopalosiphum padi</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1988, 47, 161-165. | 1.4 | 42        |
| 57 | Glycine-betaine accumulation influences susceptibility of water-stressed barley to the aphid <i>Schizaphis graminum</i> . <i>Phytochemistry</i> , 1987, 26, 367-369.                   | 2.9 | 18        |
| 58 | Distribution of gramine and hydroxamic acids in barley and wheat leaves. <i>Phytochemistry</i> , 1987, 26, 1917-1918.  | 2.9 | 56        |
| 59 | Glycine-betaine in wilted barley reduces the effects of gramine on aphids. <i>Phytochemistry</i> , 1987, 26, 3197-3200.  | 2.9 | 6         |
| 60 | Effect of gramine in the resistance of barley seedlings to the aphid <i>Rhopalosiphum padi</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1986, 40, 259-262.                   | 1.4 | 54        |
| 61 | Hydroxamic acid content in wild and cultivated gramineae. <i>Phytochemistry</i> , 1983, 22, 2665-2668.   | 2.9 | 108       |