

Publicaciones WoS (ISI) Doctorado en Ciencias de Recursos Naturales

Año: 2018

Publicaciones Totales: 96

Publicaciones Alumnos de Doctorado: 28

Publicaciones con investigadores extranjeros: 62

1. Fuentes A, Barrientos M, Almonacid L, Arriagada C, Salas C. 2018. Short-term response of soil microorganisms, nutrients and plant recovery in fire-affected *Araucaria araucana* forests. *Applied soil ecology*. 131: 99-106.
Impact Factor: 5.509
DOI: 10.1016/j.apsoil.2018.08.010
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0929-1393

2. **Herrera H**, Valadares R, Oliveira G, Fuentes D, Almonacid L, Vasconcelos Do Nascimento S, Bashan Y, Arriagada C. 2018. Adaptation and tolerance mechanisms developed by mycorrhizal *Bipinnula fimbriata* plantlets (orchidaceae) in a heavy metal-polluted ecosystem. *Mycorrhiza*. 28: 651–663.
Impact Factor: 3.856
DOI: 10.1007/s00572-018-0858-4
Quartile: 1
Editorial: Springer, USA
ISSN: 0940-6360

3. **Lagos C**, Larsen J, Saucedo E, Almonacid L, Herrera H, Fuentes D, Arriagada C. 2018. Dual inoculation with mycorrhizal and saprotrophic fungi suppress the maize growth and development under phenanthrene exposure. *Journal of soil science and plant nutrition*. 18:721-734.
Impact Factor: 3.6
DOI: 10.4067/S0718-95162018005002102
Quartile: 2
Editorial: Springer Nature, Switzerland
ISSN: 0718-9516

4. Olmedo P, Moreno A, Sanhueza D, Balic I, Silva-Sanzana C, Zepeda B, Verdonk J, Arriagada C, Meneses C, Campos-Vargas R. 2018. A catechol oxidase acppo from cherimoya (*Annona cherimola mill.*) is localized to the golgi apparatus. *Plant science*. 266:46-54.
Impact Factor: 6.627
DOI: 10.1016/j.plantsci.2017.10.012
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0168-9452

5. Balic I, Vizoso P, Nilo-Poyanco R, Sanhueza D, Olmedo P, Sepulveda P, Arriagada C, Defilippi B, Meneses C, Campos-Vargas R. 2018. Transcriptome analysis during ripening of table grape berry cv. thompson seedless. *Plos one*. 13(1): e0190087.
Impact Factor: 3.752

DOI: 10.1371/journal.pone.0190087

Quartile: 2

Editorial: Public Library Science, USA

ISSN: 1932-6203

6. Espinoza J, Urzúa A, Bardehle L, Quiroz A, Echeverría J, González M. 2018. Antifeedant effects of essential oil, extracts, and isolated sesquiterpenes from *Pilgerodendron uviferum* (d. don) florin heartwood on red clover borer *Hylastinus obscurus* (coleoptera: curculionidae). *Molecules.* 23(6), 1282.
Impact Factor: 4.927
DOI: 10.3390/molecules23061282.
Quartile: 2
Editorial: MDPI AG, Switzerland
ISSN: 1420-3049
7. Burgos C, Hernandez X, Wandersleben T, Barahona T, **Medina C**, Quiroz A, Rubilar M. 2018. Influence of multilayer o/w emulsions stabilized by proteins from a novel lupin variety aluprot-cgna and ionic polysaccharides on d-limonene retention during spray-drying. *Colloids and surfaces a: physicochemical and engineering aspects.* 536:234-241.
Impact Factor: 5.518
DOI: 10.1016/j.colsurfa.2017.04.032
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0927-7757
8. **Moraga-Nicolás F**, Jara C, Godoy R, Iturriaga-Vásquez P, Ventur H, Quiroz A, Becerra J, Mutis A, Hormazábal E. 2018. *Rhodolirium andicola*: a new renewable source of alkaloids with acetylcholinesterase inhibitory activity, a study from nature to molecular docking. *Brazilian journal of pharmacognosy.* 28:34-43.
Impact Factor: 2.464
DOI: 10.1016/j.bjp.2017.11.009
Quartile: 3
Editorial: Sociedade Brasileira de Farmacognosia, Brazil.
ISSN: 0102-695X
9. Quiroz A, Bardehle L, Hormazabal E, Ortega F, **Medina C**, Mutis A. 2018. Differential formononetin content in cultivars and experimental lines of red clover (*Trifolium pratense l.*) plants affect the feeding behaviour of *Hylastinus obscurus* (coleoptera: curculionidae). *Boletín latinoamericano y del caribe de plantas medicinales y aromáticas.* 17(4), 372-380.
Impact Factor: 0.812
DOI: no information
Quartile: 4
Editorial: The Portal of Chilean Academic Journals, Chile
ISSN: 0717-7917
10. Moreira MV, Vilela LF, Santos C, Lima N, Schwan RF. 2018. Volatile compounds and protein profiles analyses of fermented cocoa beans and chocolates from different hybrids cultivated in brazil. *Food research international.* 109:196-203.
Impact Factor: 7.425
DOI: 10.1016/j.foodres.2018.04.012
Quartile: 1

Editorial: Elsevier Science BV, Netherlands
ISSN: 0963-9969

11. Matus F, Stock S, Eschenbach W, Dyckmans J, Merino C, **Nájera F**, Koster M, Kuzyakov Y, Dippold M. 2018. Ferrous wheel hypothesis: abiotic nitrate incorporation into dissolved organic matter. *Geochimica et cosmochimica acta.* 245:514-524.
Impact Factor: 5.921
DOI: 10.1016/j.gca.2018.11.020
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0016-7037
12. Baumann K, Jung P, Elena S, Matus F, Lukas W, Burkhard B, Karsten U, Bendix J, Achilles S, Michael S, Oses R, Osses P, Morshedizad M, Oehlschläger C, Hu Y, Klysubun W, Leinweber P. 2018. Biological soil crusts along a climatic gradient in chile: richness and imprints of phototrophic microorganisms in phosphorus biogeochemical cycling. *Soil biology and biochemistry.* 127:286-300.
Impact Factor: 8.546
DOI: 10.1016/j.soilbio.2018.09.035
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0038-0717
13. Bernhard N, Moskwa L, Schmidt K, Oeser R, Aburto F, Martus F, Bader M, Baumann K, Von Blanckenburg F, Boy J, Van Den Brink L, Brucker E, Büdel B, Canessa R, Dippold M, Ehlers T, Fuentes J, Godoy R, Jung P, Karsten U, Köster M, Kuzyakov Y, Leinweber P, Neidhardt H, Mueller C, Oelmann Y, Oses R, Osses P, Paulino L, Samolov E, Schaller M, Schmid M, Spielvogel S, Spohn M, Stock S, Stroncik N, Tielbörger K, Übernickel K, Scholten T, Seguel O, Wagner D, Kühn P. 2018. Pedogenic and microbial interrelations to regional climate and local topography: new insights from a climate gradient (arid to humid) along the coastal cordillera of Chile. *Catena.* 170:335-355.
Impact Factor: 6.367
DOI: 10.1016/j.catena.2018.06.018
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0341-8162
14. Oeser R, Stroncik N, Moskwa L, Bernhard N, Schaller M, Canessa R, Van Den Brink L, Köster M, Brucker E, Stock S, Fuentes J, Godoy R, Matus F, Oses R, Osses P, Paulino L, Seguel O, Bader M, Etc E. 2018. Chemistry and microbiology of the critical zone along a steep climate and vegetation gradient in the chilean coastal cordillera. *Catena.* 170:183-203.
Impact Factor: 6.367
DOI: 10.1016/j.catena.2018.06.002
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0341-8162
15. Ortega FG, Piguillem SV, Messina GA, Tortella GR, Rubilar O, Jiménez Castillo MI, Lorente JA, Serrano MJ, Raba J, Fernández Baldo MA. 2018. Egfr detection in extracellular vesicles of breast cancer patients through immunosensor based on silica-chitosan nanoplatform. *Talanta.* 194:243-252.

Impact Factor: 6.556

DOI: 10.1016/j.talanta.2018.10.016

Quartile: 1

Editorial: Elsevier Science BV, Netherlands

ISSN: 0039-9140

16. **Parada J**, Rubilar O, Fernandez-Baldo M, Bertolino F, Duran N, Seabra A, Tortella GR. 2018. The nanotechnology among us: are metal and metal oxides nanoparticles a nano or mega risk for soil microbial communities?. *Critical reviews in biotechnology*. 39:157-172.

Impact Factor: 9.062

DOI: 10.1080/07388551.2018.1523865

Quartile: 1

Editorial: Taylor & Francis Inc, USA

ISSN: 0738-8551

17. Parra B, Tortella GR, Cuozzo S, Martínez M. 2018. Negative effect of copper nanoparticles on the conjugation frequency of conjugative catabolic plasmids. *Ecotoxicology and environmental safety*. 169:662-668.

Impact Factor: 7.129

DOI: 10.1016/j.ecoenv.2018.11.057

Quartile: 1

Editorial: Elsevier Science BV, Netherlands

ISSN: 0147-6513

18. Duran P, Tortella G, Viscardi S, Barra PJ, Carrion V, Mora M, Pozo M. 2018. Microbial community composition in take-all suppressive soils. *Frontiers in microbiology*. 9:2198.

Impact Factor: 6.064

DOI: 10.3389/fmicb.2018.02198

Quartile: 1

Editorial: Frontiers Media SA, Switzerland

ISSN: 1664-302X

19. **Concha E**, Heipieper HJ, Wick LY, Ciudad GA, Navia R. 2018. Effects of limonene, n-decane and n-decanol on growth and membrane fatty acid composition of the microalga *Botryococcus braunii*. *Amb express*. 189.

Impact Factor: 4.126

DOI: 10.1186/s13568-018-0718-9

Quartile: 2

Editorial: Springer, USA

ISSN: 2191-0855

20. **Valdebenito F**, García R, Cruces K, Ciudad G, Chinga-Carrasco G, Habibi Y. 2018. Co₂ adsorption of surface-modified cellulose nanofibril films derived from agricultural wastes. *Acs sustainable chemistry & engineering*. 10:12603–12612.

Impact Factor: 9.224

DOI: 10.1021/acssuschemeng.8b00771

Quartile: 1

Editorial: American Chemical Society, USA

ISSN: 2168-0485

21. Díaz R, Lee M, Figueroa E, **Ulloa P**, Sepúlveda N, Farias J 2018. Study of the membrane lipid

composition of atlantic salmon (*Salmo salar*) spermatozoa and its relation with semen quality. Aquaculture research. 49:2603-2607.

Impact Factor: 2.184

DOI: 10.1111/are.13713

Quartile: 3

Editorial: Wiley, USA

ISSN: 1355-557X

22. Figueroa E, Farias J, Lee M, Valdebenito I, Risopatron J, Magnotti C, Romero J, Watanabe I, Oliveira R. 2018. Sperm cryopreservation with supplementation of ?-tocopherol and ascorbic acid in freezing media increase sperm function and fertility rate in atlantic salmon (*Salmo salar*). Aquaculture. 493:1-8.

Impact Factor: 5.135

DOI: 10.1016/j.aquaculture.2018.04.046

Quartile: 1

Editorial: Elsevier Science BV, Netherlands

ISSN: 0044-8486

23. Magnotti C, Figueroa E, Farias J, Merino O, Valdebenito I, Oliveira R, Cerqueira V. 2018. Sperm characteristics of wild and captive lebranch mullet *Mugil liza* (valenciennes, 1836), subjected to sperm activation in different ph and salinity conditions. Animal reproduction science. 192:164-170.

Impact Factor: 2.22

DOI: 10.1016/j.anireprosci.2018.03.004

Quartile: 2

Editorial: Elsevier Science BV, Netherlands

ISSN: 0378-4320

24. **Ulloa-Rodríguez P**, Contreras P, Durmoné K, Lee-Estévez M, Díaz R, Figueroa E, Valdebenito I, Risopatrón J, Farías JG. 2018. Patagonian blenny (*Eleginops maclovinus*) spermatozoa quality after storage at 4 °c in cortland medium. Animal reproduction science. 197:117-125.

Impact Factor: 2.22

DOI: 10.1016/j.anireprosci.2018.08.019

Quartile: 2

Editorial: Elsevier Science BV, Netherlands

ISSN: 0378-4320

25. **Dumorné K**, Valdebenito I, Risopatron J, Figueroa E, Díaz R, Farías J. 2018. Morphology and ultrastructure of pink cusk-eel (*Genypterus blacodes*, schneider 1801) spermatozoa by scanning and transmission electron microscopy. Tissue and cell. 54:26-29.

Impact Factor: 2.586

DOI: 10.1016/j.tice.2018.07.005

Quartile: 2

Editorial: Elsevier Science BV, Netherlands

ISSN: 0040-8166

26. **Dumorné K**, Valdebenito I, Contreras P, Ulloa Rodríguez P, Risopatrón J, Figueroa E, Lee Estevez M, Díaz R, Farías J. 2018. Effect of ph, osmolality and temperature on sperm motility of pink cusk-eel (*Genypterus blacodes*, (forster, 1801). Aquaculture reports. 11:42-46.

Impact Factor: 3.385

DOI: 10.1016/j.aqrep.2018.05.002

Quartile: 1

Editorial: Elsevier Science BV, Netherlands

ISSN: 2352-5134

27. Zepeda A, Pessoa A, Farias J. 2018. Carbon metabolism influenced for promoters and temperature used in the heterologous protein production using *Pichia pastoris* yeast. *Brazilian journal of microbiology*. 49:119-127.
Impact Factor: 2.214
DOI: 10.1016/j.bjm.2018.03.010
Quartile: 4
Editorial: Sociedade Brasileira de Microbiologia, Brazil
ISSN: 1517-8382
28. Isler IV, Figueroa-Villalobos E, Sandoval L, Contreras-Mellado P, Sánchez-Caamaño JC, Farías-Avendaño J, Risopatrón J. 2018. Characterization of first blastomeres in patagonian blenny (*Eleginops maclovinus*) (perciformes: eleginopidae). *Zygote*. 26:443 - 448.
Impact Factor: 1.818
DOI: 10.1017/S0967199418000217
Quartile: 4
Editorial: Cambridge University Press, Reino Unido.
ISSN: 0967-1994
29. Figueroa E, Lee M, Valdebenito I, Farias J, Romero J. 2018. Potential biomarkers of dna quality in cryopreserved fish sperm: impact on gene expression and embryonic development. *Reviews in aquaculture*. 12:382-391.
Impact Factor: 10.618
DOI: 10.1111/raq.12323
Quartile: 1
Editorial: Wiley, USA
ISSN: 1753-5131
30. Zepeda A, Figueroa C, Pessoa A, Farias J. 2018. Free fatty acids reduce metabolic stress and favor a stable production of heterologous proteins in *Pichia pastoris*. *Brazilian journal of microbiology*. 49(4): 856–864.
Impact Factor: 2.214
DOI: 10.1016/j.bjm.2018.03.008
Quartile: 2
Editorial: Sociedade Brasileira de Microbiologia, Brazil
ISSN: 1517-8382
31. **Rilling JI**, Acuña JJ, Sadowsky MJ, Jorquera MA. 2018. Putative nitrogen-fixing bacteria associated with the rhizosphere and root endosphere of wheat plants grown in an andisol from southern Chile. *Frontiers in microbiology*. 9:2710.
Impact Factor: 6.064
DOI: 10.3389/fmicb.2018.02710
Quartile: 1
Editorial: Frontiers Media SA, Switzerland
ISSN: 1664-302X
32. Barra PJ, Viscardi S, Jorquera M, Duran P, Valentine A, Mora ML. 2018. Understanding the strategies to overcome phosphorus? deficiency and aluminum? toxicity by ryegrass endophytic

- and rhizosphere phosphobacteria. *Frontiers in microbiology*. 9: 1155.
Impact Factor: 6.064
DOI: 10.3389/fmicb.2018.01155
Quartile: 1
Editorial: Frontiers Media SA, Switzerland
ISSN: 1664-302X
33. Moore F, Gonzalez M, Khan N, Curaqueo G, Sanchez-Monedero M, Rilling J, Morales E, Panichini M, Mutis A, Jorquera M, Mejias J, Hirzel J, Meier S. 2018. Copper immobilization by biochar and microbial community abundance in metal-contaminated soils. *Science of the total environment*. 616:960-969.
Impact Factor: 10.754
DOI: 10.1016/j.scitotenv.2017.10.223
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0048-9697
34. Cid F.P, Maruyama F, Murase K, Graether S.P, Larama G, Bravo L.A, Jorquera M.A. 2018. Draft genome sequences of bacteria isolated from the *Deschampsia antarctica* phyllosphere. *Extremophiles*. 22:537–552.
Impact Factor: 3.035
DOI: 10.1007/s00792-018-1015-x
Quartile: 3
Editorial: Springer, USA
ISSN: 1431-0651
35. Jorquera M.A, Gabler S, Inostroza N.G, Acuña J.J, Campos M.A, Menezes-Blackburn D, Greiner R. 2018. Screening and characterization of phytases from bacteria isolated from Chilean hydrothermal environments. *Microbial ecology*. 75:387–399.
Impact Factor: 4.192
DOI: 10.1007/s00248-017-1057-0
Quartile: 1
Editorial: Springer, USA
ISSN: 0095-3628
36. Hermosilla E, Rubilar O, Schalchli H, Sant'Ana da Silva A, Ferreira-Leitao V, Diez M.C. 2018. Sequential white-rot and brown-rot fungal pretreatment of wheat straw as a promising alternative for complementary mild treatments. *Waste management*. 79:240-250.
Impact Factor: 8.816
DOI: 10.1016/j.wasman.2018.07.044
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0956-053X
37. Quiroz G, Guerra N, Rivera M, Iturriaga P, Quintanilla M, Sotomayor R. 2018. Ery sodine, a competitive antagonist at neuronal nicotinic acetylcholine receptors, decreases ethanol consumption in alcohol-preferring uchb rats. *Behavioural brain research*. 349:169-176.
Impact Factor: 3.352
DOI: 10.1016/j.bbr.2018.04.038
Quartile: 2
Editorial: Elsevier Science BV, Netherlands

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38. Mendez C, Quiroz G, Faundez M, Gallardo C, Pessoa C, Chung H, Gallardo E, Saitz C, Araya R, Kogan M, Zuñiga M, Iturriaga P, Valenzuela C, Passoa H. 2018. Synthesis and biological evaluation of potential acetylcholinesterase inhibitors based on a benzoxazine core. *Archive der pharmazie life science.* 351(5):e1800024.
Impact Factor: 4.613
DOI: 10.1002/ardp.201800024
Quartile: 2
Editorial: Wiley, USA
ISSN: 0365-6233
39. Nuñez G, Fierro A, Moya P, Iturriaga P, Reyes M.. 2018. 3d similarities between the binding sites of the monoaminergics targets proteins. *Plos one.* 13(7):e0200637.
Impact Factor: 3.752
DOI: 10.1371/journal.pone.0200637
Quartile: 2
Editorial: Public Library Science, USA
ISSN: 1932-6203
40. **Sanhueza C**, Acevedo F, Rocha S, Villegas P, Seeger M, Navia R. 2018. Review polyhydroxyalkanoates as biomaterial for electrospun scaffolds. *International journal of biological macromolecules.* 124:102-110.
Impact Factor: 8.025
DOI: 10.1016/j.ijbiomac.2018.11.068
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0141-8130
41. Shene C, Asenjo J, Chisti Y. 2018. Metabolic modelling and simulation of the light and dark metabolism of *Chlamydomonas reinhardtii*. *The plant journal.* 96:1076-1088.
Impact Factor: 7.091
DOI: 10.1111/tpj.14078
Quartile: 1
Editorial: Wiley, USA
ISSN: 1365-313X
42. Rojas V, Jiménez H, Palma-Millanao R, González-González A, Machuca J, Godoy R, Ceballos R, Mutis A, Ventur H. 2018. Analysis of the grapevine moth *Lobesia botrana* antennal transcriptome and expression of odorant-binding and chemosensory proteins. *Comparative biochemistry and physiology, part d.* 27:1-12.
Impact Factor: 3
DOI: 10.1016/j.cbd.2018.04.003
Quartile: 3
Editorial: Elsevier Science BV, Netherlands
ISSN: 1744-117X
43. Acevedo F, Hermosilla J, **Sanhueza C**, Mora-Lagos B, Fuentes I, Rubilar M, Concheiro A, Alvarez-Lorenzo C. 2018. Gallic acid loaded peo-core/zein-shell nanofibers for chemopreventive action on gallbladder cancer cells. *European journal of pharmaceutical sciences.* 119:49-61.
Impact Factor: 5.112

DOI: 10.1016/j.ejps.2018.04.009

Quartile: 1

Editorial: Elsevier Science BV, Netherlands

ISSN: 0928-0987

44. Rojas C, Cea M, Rosas F, Cardenas J. 2018. Nete physical, chemical and mechanical characterization of a prototype insulating material based on eucalyptus bark fiber. Ieee latin america transactions. 16(9):2441-2446.
Impact Factor: 0.967
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Quartile: 4
Editorial: no information
ISSN: 1548-0992
45. Diez MC, Leiva B, Gallardo F.. 2018. Novel insights in biopurification system for dissipation of a pesticide mixture in repeated applications. Environmental science and pollution research. 25:21440–21450.
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DOI: 10.1007/s11356-017-0130-z
Quartile: 2
Editorial: Springer, USA
ISSN: 0944-1344
46. Briceño G, Diez MC, Fuentes M, Saez J, Benimeli C. 2018. *Streptomyces* genus as biotechnological tool for pesticide degradation in polluted systems. Critical reviews in environmental science and technology. 48:773-805.
Impact Factor: 11.75
DOI: 10.1080/10643389.2018.1476958
Quartile: 1
Editorial: Taylor & Francis Inc, USA
ISSN: 1064-3389
47. **Millaleo R**, Rao M, Ulloa E, Duran P, Mora M.L. 2018. Early responses to manganese (mn) excess and its relation to antioxidant performance and organic acid exudation in barley culivars. Journal of soil science and plant nutrition. 18(4), 1206-1223.
Impact Factor: 3.6
DOI: 10.4067/S0718-95162018005003302
Quartile: 2
Editorial: Springer Nature, Switzerland
ISSN: 0718-9508
48. Barthod J, Rumpel C, Calabi M, Mora ML, Bolan N, Dignac M. 2018. Adding worms during composting of organic waste with red mud and fly ash reduces co2 emissions and increases plant available nutrient contents. Journal of environmental management. 222:207-215.
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49. **Pontigo S, Ulloa M**, Godoy K, Nikolic N, Nikolic M, Mora ML, Cartes P. 2018. Phosphorus

efficiency modulates phenol metabolism in wheat genotypes. *Journal of soil science and plant nutrition.* 18(3), 904-920.

Impact Factor: 3.6

DOI: 10.4067/S0718-95162018005002603

Quartile: 2

Editorial: Springer Nature, Switzerland

ISSN: 0718-9508

50. **Parra L, Ferrol N, Diaz A, Mora ML.** 2018. Aluminum toxicity and phosphate deficiency activates antioxidant systems and up-regulates expression of phosphate transporters gene in ryegrass (*Lolium perenne l.*) plants. *Plant physiology and biochemistry.* 130:445-454.

Impact Factor: 5.427

DOI: 10.1016/j.plaphy.2018.07.031

Quartile: 1

Editorial: Elsevier Science BV, Netherlands

ISSN: 0981-9428

51. Duran P, Viscardi S, Acuña J, Cornejo P, Azcón R, Mora ML. 2018. Endophytic selenobacteria and arbuscular mycorrhizal fungus for selenium biofortification and *Gaeumannomyces graminis* biocontrol. *Journal of soil science and plant nutrition.* 18(4), 1021-1035.

Impact Factor: 3.6

DOI: 10.4067/S0718-95162018005002902

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52. Ribera A, Rumpel C, Mora ML, Nikolic M, Cartes P. 2018. Sodium silicate and calcium silicate differentially affect silicon and aluminium uptake, antioxidant performance and phenolics metabolism of ryegrass in an acid andisol. *Crop and pasture science.* 69(2) 205-215.

Impact Factor: 2.241

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Quartile: 2

Editorial: CSIRO Publishing, Australia

ISSN: 1836-0947

53. Delgado M, Valle S, Reyes-Díaz M, Barra P, Zúñiga-Feest A. 2018. Nutrient use efficiency of southern south america proteaceae species. are there general patterns in the proteaceae family?. *Frontiers in plant science.* 9:883.

Impact Factor: 6.627

DOI: 10.3389/fpls.2018.00883

Quartile: 1

Editorial: Frontiers Media SA, Switzerland

ISSN: 1664-462X

54. Romero-Romero J, Inostroza-Blancheteau C, Orellana O, Aquea F, Reyes-Díaz M, Gil P, Matte J, Arce-Johnson P. 2018. Stomata regulation by tissue-specific expression of the *Citrus sinensis* myb61 transcription factor improves water-use efficiency in arabidopsis. *Plant physiology and biochemistry.* 130:54-60.

Impact Factor: 5.437

DOI: 10.1016/j.plaphy.2018.06.034

Quartile: 1

Editorial: Elsevier Science BV, Netherlands
ISSN: 0981-9428

55. Tighe-Neira R, Carmona E, Recio G, Nunes-Nesi A, Reyes-Díaz M, Alberdi M, Rengel Z, Inostroza-Blancheteau C. 2018. Metallic nanoparticles influence the structure and function of the photosynthetic apparatus in plants. *Plant physiology and biochemistry*. 130:408-417.
Impact Factor: 5.437
DOI: 10.1016/j.plaphy.2018.07.024
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Editorial: Elsevier Science BV, Netherlands
ISSN: 0981-9428
56. **Gonzalez-Villagra J**, Rodrigues-Salvador A, Nunes-Nesi A, Cohen J.D, Reyes-Díaz M. 2018. Age-related mechanism and its relationship with secondary metabolism and abscisic acid in *Aristotelia chilensis* plants subjected to drought stress. *Plant physiology and biochemistry*. 124:136-145.
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DOI: 10.1016/j.plaphy.2018.01.010
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57. **Alarcon E**, Inostroza-Blancheteau C, Alberdi M, Rengel Z, Reyes-Díaz M. 2018. Molecular regulation of aluminum resistance and sulfur nutrition during root growth. *Planta*. 247:27–39.
Impact Factor: 4.54
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Quartile: 1
Editorial: Springer, USA
ISSN: 1432-2048
58. **Gonzalez-Villagra J**, Cohen J.C, Reyes-Díaz M. 2018. Abscisic acid is involved in phenolic compounds biosynthesis, mainly anthocyanins, in leaves of *Aristotelia chilensis* plants (mol.) subjected to drought stress. *Physiologia plantarum*. 165(4):855-866.
Impact Factor: 5.081
DOI: 10.1111/ppl.12789
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