Publicaciones WoS (ISI) Doctorado en Ciencias de Recursos Naturales

Año: 2022
Publicaciones Totales: 116
Publicaciones Alumnos de Doctorado: 38
Publicaciones con investigadores extranjeros: 76

1. Herrera H, Sanhueza T, da Silva Valadares RB, Matus F, Pereira G, Atala C, Mora ML, Arriagada C. 2022. Diversity of Root-Associated Fungi of the Terrestrial Orchids *Gavilea lutea* and *Chloraea collicensis* in a Temperate Forest Soil of South-Central Chile. Journal of Fungi, 8(8), 794.
   Impact Factor: 5.724
   DOI: https://doi.org/10.3390/jof8080794
   Quartile: 1
   Editorial: MDPI
   ISSN: 2309-608X

2. Herrera H, Fuentes A, Ortiz J, Soto J, da Silva Valadares RB, Salas-Eljatib C, Arriagada C. 2022. Root-associated endophytes isolated from juvenile *Ulex europaeus* L. (Fabaceae) plants colonizing rural areas in South-Central Chile. Plant and Soil, 474(1–2), 181–193.
   Impact Factor: 4.993
   DOI: https://doi.org/10.1007/s11104-022-05324-5
   Quartile: 1
   Editorial: Springer Publishing
   ISSN: 0032-079X

3. Fuentes-Quiroz A, Herrera H, Soto J, Campos-Vargas R, Ortiz J, Arriagada C. 2022. Rhizosphere fungi regulate the expression of metal tolerance genes in *Solanum lycopersicum* L. (Solanaceae) growing in a metal(loid)-contaminated soil. Rhizosphere, 24, 100599.
   IImpact Factor: 3.437
   DOI: https://doi.org/10.1016/j.rhisph.2022.100599
   Quartile: 2
   Editorial: Elsevier Science BV, Netherlands
   ISSN:2452-2198

4. Venthur H, Lizana P, Manosalva L, Rojas V, Godoy R, Rocha A, Aguilera I, Palma-Millanao R, Fajardo V, Quiroz A, Mutis A. 2022. Analysis of glutathione-S-transferases from larvae of Galleria mellonella (Lepidoptera, Pyralidae) with potential alkaloid detoxification function. Frontiers in Physiology, 13.
   Impact Factor: 4.755
   DOI: https://doi.org/10.3389/fphys.2022.989006
   Quartile: 1
   Editorial: Frontiers Media SA, Switzerland
   ISSN: 1664-042X

5. Parada J, Díaz M, Hermosilla E, Vera J, Tortella G, Seabra AB, Quiroz A, Hormazábal E, Rubilar O. 2022. Synthesis and Antibacterial Activity of Manganese-Ferrite/Silver Nanocomposite Combined with Two Essential Oils. Nanomaterials, 12(13), 2137.
   Impact Factor: 5.719
   DOI: https://doi.org/10.3390/nano12132137
   Quartile: 1
   Editorial: MDPI
   ISSN: 2079-4991

6. **Godoy R**, Arias I, Venthur H, Quiroz A, Mutis A. 2022. Characterization of Two Aldehyde Oxidases from the

Greater Wax Moth, *Galleria mellonella* Linnaeus. (Lepidoptera: Pyralidae) with Potential Role as Odorant-Degrading Enzymes. Insects, 13(12), 1143.
Impact Factor: 3.141
DOI: https://doi.org/10.3390/insects13121143
Quartile: 1
Editorial: MDPI
ISSN: 2075-4450

7. Lizana P, Mutis A, Quiroz A, Venthur H. 2022. Insights Into Chemosensory Proteins From Non-Model Insects: Advances and Perspectives in the Context of Pest Management. Frontiers in Physiology, 13.
Impact Factor: 4.755
DOI: https://doi.org/10.3389/fphys.2022.924750
Quartile: 1
Editorial: Frontiers Media SA, Switzerland
ISSN: 1664-042X

8. **Medina C**, Mutis A, Bardehle L, Hormazabal E, Borie F, Aguilera P, Ortega F, Quiroz A. 2023. Arbuscular mycorrhizal fungi enhance monoterpene production in red clover (*Trifolium pratense* L.): a potential tool for pest control. Natural Product Research, 37(6), 981–984.
Impact Factor: 2.488
DOI: https://doi.org/10.1080/14786419.2022.2094375
Quartile: 3
Editorial: Taylor & Francis Inc, USA
ISSN: 1478-6419

9. **Costa J,** Sepúlveda M, Gallardo V, Cayún Y, Santander C, Ruíz A, Reyes M, Santos C, Cornejo P, Lima N, Santos C. 2022. Antifungal Potential of Capsaicinoids and Capsinoids from the Capsicum Genus for the Safeguarding of Agrifood Production: Advantages and Limitations for Environmental Health. Microorganisms, 10(12), 2387.
Impact Factor: 4.922
DOI: https://doi.org/10.3390/microorganisms10122387
Quartile: 2
Editorial: MDPI
ISSN: 2076-2607

10. **Costa J**, Santos C, Soares C, Rodríguez R, Lima N, Santos C. 2022. Occurrence of Aflatoxins and Ochratoxin A during Merkén Pepper Powder Production in Chile. Foods, 11(23), 3843.
Impact Factor: 5.561
DOI: https://doi.org/10.3390/foods11233843
Quartile: 1
Editorial: MDPI
ISSN: 2304-8158

11. Vidal C, González F, Santander C, Pérez R, Gallardo V, Santos C, Aponte H, Ruiz A, Cornejo P. 2022. Management of Rhizosphere Microbiota and Plant Production under Drought Stress: A Comprehensive Review. Plants, 11(18), 2437.
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants11182437
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

12. Iturrieta-González I, Giacaman A, Godoy-Martínez P, Vega F, Sepúlveda M, Santos C, Toledo V, Rivera G, Ortega L, San Martín A, Bahamondes V, Collao F, Sánchez R, Fonseca-Salamanca F. 2022. *Penicillium digitatum*, First Clinical Report in Chile: Fungal Co-Infection in COVID-19 Patient. Journal of Fungi, 8(9), 961.
Impact Factor: 5.724
DOI: https://doi.org/10.3390/jof8090961

Quartile: 1
Editorial: MDPI
ISSN:2309-608X

13. Pamplona Pagnossa J, Rocchetti G, Bezerra JDP, Batiha GE-S, El-Masry EA, Mahmoud MH, Alsayegh AA, Mashraqi A, Cocconcelli PS, Santos C, Lucini L, Hilsdorf Piccoli R. 2022. Untargeted Metabolomics Approach of Cross-Adaptation in *Salmonella enterica* Induced by Major Compounds of Essential Oils. Frontiers in Microbiology, 13.
Impact Factor: 6.064
DOI: https://doi.org/10.3389/fmicb.2022.769110
Quartile: 1
Editorial: Frontiers Media SA, Switzerland
ISSN: 1664-302X

14. Stock SC, Koester M, Nájera F, Boy J, Matus F, Merino C, Abdallah K, Spielvogel S, Gorbushina AA, Dippold MA, Kuzyakov Y. 2022. Vegetation strategies for nitrogen and potassium acquisition along a climate and vegetation gradient: From semi-desert to temperate rainforest. Geoderma, 425, 116077.
Impact Factor: 7.422
DOI: https://doi.org/10.1016/j.geoderma.2022.116077
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0016-7061

15. Boy D, Moeller R, Sauheitl L, Schaarschmidt F, Rapp S, van den Brink L, Gschwendtner S, Borquez RG, Matus FJ, Horn MA, Guggenberger G, Boy J. 2022. Gradient Studies Reveal the True Drivers of Extreme Life in the Atacama Desert. Journal of Geophysical Research: Biogeosciences, 127(3).
Impact Factor: 4.432
DOI: https://doi.org/10.1029/2021JG006714
Quartile: 1
Editorial: Wiley, USA
ISSN: 2169-8953

16. Hoffmann N, Tortella G, Hermosilla E, Fincheira P, Diez MC, Lourenço IM, Seabra AB, Rubilar O. 2022. Comparative Toxicity Assessment of Eco-Friendly Synthesized Superparamagnetic Iron Oxide Nanoparticles (SPIONs) in Plants and Aquatic Model Organisms. Minerals, 12(4), 451.
Impact Factor: 2.818
DOI: https://doi.org/10.3390/min12040451
Quartile: 2
Editorial: MDPI
ISSN: 2075-163X

17. Padrão J, Ferreira V, Mesquita DP, Cortez S, Dias N, Duarte MS, Tortella G, Fernandes I, Mota M, Nicolau A. 2022. Negative impacts of cleaning agent DEPTAL MCL® on activated sludge wastewater treatment system. Science of The Total Environment, 838, 155957.
Impact Factor: 10.754
DOI: https://doi.org/10.1016/j.scitotenv.2022.155957
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0048-9697

18. Parada J, Díaz M, Hermosilla E, Vera J, Tortella G, Seabra AB, Quiroz A, Hormazábal E, Rubilar O. 2022. Synthesis and Antibacterial Activity of Manganese-Ferrite/Silver Nanocomposite Combined with Two Essential Oils. Nanomaterials, 12(13), 2137.
Impact Factor: 3.791
DOI: https://doi.org/10.3390/nano12132137
Quartile: 2
Editorial: MDPI

ISSN: 1687-4110

19. Hoffmann N, Fincheira P, Tortella G, Rubilar O. 2022. The role of iron nanoparticles on anaerobic digestion: mechanisms, limitations, and perspectives. Environmental Science and Pollution Research, 29(55), 82619–82631.
Impact Factor: 5.190
DOI: https://doi.org/10.1007/s11356-022-23302-3
Quartile: 2
Editorial: Springer Publishing
ISSN: 0944-1344

20. Medrano-Macías J, Flores-Gallegos AC, Nava-Reyna E, Morales I, Tortella G, Solís-Gaona S, Benavides-Mendoza A. 2022. Reactive Oxygen, Nitrogen, and Sulfur Species (RONSS) as a Metabolic Cluster for Signaling and Biostimulation of Plants: An Overview. Plants, 11(23), 3203
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants11233203
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

21. Garza-Alonso CA, Olivares-Sáenz E, González-Morales S, Cabrera-De la Fuente M, Juárez-Maldonado A, González-Fuentes JA, Tortella G, Valdés-Caballero MV, Benavides-Mendoza A. 2022. Strawberry Biostimulation: From Mechanisms of Action to Plant Growth and Fruit Quality. Plants, 11(24), 3463.
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants11243463
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

22. Hermosilla E, Díaz M, Vera J, Seabra AB, Tortella G, Parada J, Rubilar O. 2022. Molecular Weight Identification of Compounds Involved in the Fungal Synthesis of AgNPs: Effect on Antimicrobial and Photocatalytic Activity. Antibiotics, 11(5), 622.
Impact Factor: 5.222
DOI: https://doi.org/10.3390/antibiotics11050622
Quartile: 1
Editorial: MDPI
ISSN: 2079-6382

23. Benavides V, Pinto-Ibieta F, Serrano A, Rubilar O, Ciudad G. 2022. Use of *Anthracophyllum discolor* and *Stereum hirsutum* as a Suitable Strategy for Delignification and Phenolic Removal of Olive Mill Solid Waste. Foods, 11(11), 1587.
Impact Factor: 5.561
DOI: https://doi.org/10.3390/foods11111587
Quartile: 1
Editorial: MDPI
ISSN: 2304-8158

24. Sandoval C, Mella L, Godoy K, Adeli K, Farías J. 2022. β-Carotene Increases Activity of Cytochrome P450 2E1 during Ethanol Consumption. Antioxidants, 11(5), 1033.
Impact Factor: 7.675
DOI: https://doi.org/10.3390/antiox11051033
Quartile: 1
Editorial: MDPI
ISSN: 2076-3921

25. Norambuena JA, Poblete-Grant P, Beltrán JF, de Los Ríos-Escalante P, Farías JG. 2022. Evidence of the Anthropic Impact on a Crustacean Zooplankton Community in Two North Patagonian Lakes. Sustainability, 14(10), 6052.

Impact Factor: 3.889
DOI: https://doi.org/10.3390/su14106052
Quartile: 2
Editorial: MDPI
ISSN:2071-1050

26. Sandoval C, Guerrero D, Muñoz J, Godoy K, Souza-Mello V, Farías J. (2023). Effectiveness of mRNA, protein subunit vaccine, and viral vector vaccines against SARS-CoV-2 in people over 18 years old: a systematic review. Expert Review of Vaccines, 22(1), 35–53.
Impact Factor: 5.683
DOI: https://doi.org/10.1080/14760584.2023.2156861
Quartile: 2
Editorial: Taylor & Francis Inc, USA
ISSN: 1476-0584

27. Magnotti C, Cerqueira V, Villasante A, Romero J, Watanabe I, Oliveira RPS, Farias J, Merino O, Valdebenito, Figueroa E. 2022. Spermatological characteristics and effects of cryopreservation in Lebranche mullet spermatozoa (Mugil liza Valenciennes, 1836): First report of ultra-rapid freezing. Animal Reproduction Science, 241, 106986.
Impact Factor: 2.220
DOI: https://doi.org/10.1016/j.anireprosci.2022.106986
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0378-4320

28. Quiñones J, Díaz R, Beltrán JF, Velazquez L, Cancino D, Muñoz E, Dantagnan P, Hernández A, Sepúlveda N, Farías JG. 2022. Analysis of Muscle Lipidome in Juvenile Rainbow Trout Fed Rapeseed Oil and Cochayuyo Meal. Biomolecules, 12(6), 805.
Impact Factor: 6.064
DOI: https://doi.org/10.3390/biom12060805
Quartile: 1
Editorial: MDPI
ISSN: 2218-273X

29. Beltrán JF, Contreras FP, **Norambuena JA**, Belén LH, Risopatrón J, Valdebenito I, Figueroa E, Farias JG. 2022. A bioinformatics analysis of the CatSper channel in the class Actinopterygii. Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology, 267, 111181.
Impact Factor: 2.888
DOI: https://doi.org/10.1016/j.cbpa.2022.111181
Quartile: 3
Editorial: Elsevier Science BV, Netherlands
ISSN: 1095-6433

30. Herrera-Bravo J, Farías JG, Contreras FP, Herrera-Belén L, **Norambuena JA**, Beltrán JF. 2022. VirVACPRED: A Web Server for Prediction of Protective Viral Antigens. International Journal of Peptide Research and Therapeutics, 28(1), 35.
Impact Factor: 2.191
DOI: https://doi.org/10.1007/s10989-021-10345-2
Quartile: 4
Editorial: Springer Publishing
ISSN: 1573-3149

31. Herrera-Bravo J, Farías JG, Contreras FP, Herrera-Belén L, Beltrán JF. 2022. PEP-PREDNa+: A web server for prediction of highly specific peptides targeting voltage-gated Na+ channels using machine learning techniques. Computers in Biology and Medicine, 145, 105414.
Impact Factor: 6.698
DOI: https://doi.org/10.1016/j.compbiomed.2022.105414
Quartile: 1

Editorial: Elsevier Science BV, Netherlands
ISSN: 0010-4825

32. Sandoval C, Ríos G, Sepúlveda N, Salvo J, Souza-Mello V, Farías J. 2022. Effectiveness of Copper Nanoparticles in Wound Healing Process Using *In Vivo* and *In Vitro* Studies: A Systematic Review. Pharmaceutics, 14(9), 1838.
Impact Factor: 6.525
DOI: https://doi.org/10.3390/pharmaceutics14091838
Quartile: 1
Editorial: MDPI
ISSN: 1999-4923

33. Sandoval C, Farías J, Zamorano M, Herrera C. 2022. Vitamin Supplements as a Nutritional Strategy against Chronic Alcohol Consumption? An Updated Review. Antioxidants, 11(3), 564.
Impact Factor: 7.675
DOI: https://doi.org/10.3390/antiox11030564
Quartile: 1
Editorial: MDPI
ISSN: 2076-3921

34. Merino O, Risopatrón J, Valdebenito I, Figueroa E, Farías JG. (2023). Effect of the temperature of activation medium on fish sperm quality: Impact on fertilization in vitro in aquaculture practice. Reviews in Aquaculture, 15(2), 434–451.
Impact Factor: 10.618
DOI: https://doi.org/10.1111/raq.12729
Quartile: 1
Editorial: Wiley, USA
ISSN: 1753-5123

35. Herrera-Bravo J, Farías JG, Sandoval C, Herrera-Belén L, Quiñones J, Díaz R, Beltrán JF. 2022. nAChR-PEP-PRED: A Robust Tool for Predicting Peptide Inhibitors of Acetylcholine Receptors Using the Random Forest Classifier. International Journal of Peptide Research and Therapeutics, 28(5), 152.
Impact Factor: 2.191
DOI: https://doi.org/10.1007/s10989-022-10460-8
Quartile: 4
Editorial: Springer Publishing
ISSN: 1573-3149

36. Silva ARP, Guimarães MS, Rabelo J, Belén LH, Perecin CJ, Farías JG, Santos JHPM, Rangel-Yagui CO. 2022. Recent advances in the design of antimicrobial peptide conjugates. Journal of Materials Chemistry B, 10(19), 3587–3600.
Impact Factor: 6.626
DOI: https://doi.org/10.1039/D1TB02757C
Quartile: 1
Editorial: Royal Society of Chemistry Publications
ISSN: 0959-9428

37. Antileo C, Jaramillo F, Candia O, Osorio A, Muñoz C, Farías J, Proal-Nájera JB, Zhang Q, Geissen SU. 2022. Long-term nitrite-oxidizing bacteria suppression in a continuous activated sludge system exposed to frequent changes in pH and oxygen set-points. Journal of Environmental Management, 318, 115545.
Impact Factor: 8.910
DOI: https://doi.org/10.1016/j.jenvman.2022.115545
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0301-4797

38. Belén LH, Beltrán JF, Pessoa A, Castillo RL, de Oliveira Rangel-Yagui C, Farías JG. 2022. Helicobacter pylori l-asparaginase: a study of immunogenicity from an in silico approach. 3 Biotech, 12(11), 286.

Impact Factor: 2.893
DOI: https://doi.org/10.1007/s13205-022-03359-0
Quartile: 3
Editorial: Springer Publishing
ISSN: 2190-572X

39. Muñoz MT, Maldonado V, Herrera W, Mutis A, Bardehle L, Medina C, Hormazábal E, Ortega F, Quiroz A. 2022. Optimization of enzymatic parameters for the production of formononetin from red clover (*Trifolium pratense* L.) through a response surface methodology. Natural Product Research, 36(18), 4713–4718.
Impact Factor: 2.488
DOI: https://doi.org/10.1080/14786419.2021.2002324
Quartile: 3
Editorial: Taylor & Francis Inc, USA
ISSN: 1478-6419

40. Campos M, Acuña JJ, **Rilling JI**, González–González S, Peña–Cortés F, Jaisi DP, Hollenback A, Ogram A, Bai J, Zhang L, Xiao R, & Jorquera MA 2022 Spatiotemporal distributions and relationships of phosphorus content, phosphomonoesterase activity, and bacterial phosphomonoesterase genes in sediments from a eutrophic brackish water lake in Chile. Journal of Environmental Management, 320, 115906.
Impact Factor: 8,919
DOI: https://doi.org/10.1016/j.jenvman.2022.115906
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0301-4797

41. Zhang L, Bai J, Wang C, Wei Z, Wang Y, Zhang K, Xiao R, Jorquera MA, Acuña JJ, Campos M. 2022. Fate and ecological risks of antibiotics in water-sediment systems with cultivated and wild Phragmites australis in a typical Chinese shallow lake. Chemosphere, 305, 135370.
Impact Factor: 8.943
DOI: https://doi.org/10.1016/j.chemosphere.2022.135370
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0045-6535

42. Acuña JJ, Ruiz-Gil T, Marileo L, Carrazana E, **Rilling J,** Campos M, Correa-Araneda F, Fujiyoshi S, Jorquera MA. 2022. Airborne bacterial community associated with fine particulate matter (PM2.5) under different air quality indices in Temuco city, southern Chile. Archives of Microbiology, 204(2), 148.
Impact Factor: 2.667
DOI: https://doi.org/10.1007/s00203-021-02740-6
Quartile: 4
Editorial: Springer Publishing
ISSN: 0302-8933

43. Hu Y, Xiao R, Kuang B, Hu Y, Wang Y, Bai J, Wang C, Zhang L, Wei Z, Zhang K, Jorquera MA, Acuña JJ, Pan W. 2022. Application of Modified Biochar in the Treatment of Pesticide Wastewater by Constructed Wetland. Water, 14(23), 3889.
Impact Factor: 3.530
DOI: https://doi.org/10.3390/w14233889
Quartile: 2
Editorial: MDPI
ISSN: 2073-4441

44. Zhang L, Bai J, Zhang K, Wei Z, Wang Y, Liu H, Xiao R, Jorquera MA. 2022. Characterizing bacterial communities in Phragmites australis rhizosphere and non-rhizosphere sediments under pressure of antibiotics in a shallow lake. Frontiers in Microbiology, 13.
Impact Factor: 6.064
DOI: https://doi.org/10.3389/fmicb.2022.1092854
Quartile: 1

Editorial: Frontiers Media SA, Switzerland
ISSN: 1664-302X

45. B Xiao R, Wang C, Zhang L, Wei Z, Bai J, Zhang K, Campos M, Jorquera MA. 2022. Bacterial community assembly in surface sediments of a eutrophic shallow lake in northern China. Ecohydrology & Hydrobiology.
Impact Factor: 2.957
DOI: https://doi.org/10.1016/j.ecohyd.2022.01.005
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 1642-3593

46. Gálvez G, González-Gutiérrez JP, Hödar-Salazar M, Sotomayor-Zárate R, Quintanilla ME, Quilaqueo ME, Rivera-Meza M, Iturriaga-Vásquez P. 2022. UFR2709, an Antagonist of Nicotinic Acetylcholine Receptors, Delays the Acquisition and Reduces Long-Term Ethanol Intake in Alcohol-Preferring UChB Bibulous Rats. Biomedicines, 10(7), 1482.
Impact Factor: 4.757
DOI: https://doi.org/10.3390/biomedicines10071482
Quartile: 2
Editorial: MDPI
ISSN: 2227-9059

47. Muñoz E, Navia R 2022 Food–Energy–Water nexus: An approach to sustainability in cities. Waste Management & Research: The Journal for a Sustainable Circular Economy, 40(2), 121–122.
Impact Factor: 4.432
DOI: https://doi.org/10.1177/0734242X211073366
Quartile: 2
Editorial: SAGE Science
ISSN: 0734-242X

48. Leyton A, Shene C, Chisti Y, Asenjo JA. 2022. Production of Carotenoids and Phospholipids by *Thraustochytrium* sp. in Batch and Repeated-Batch Culture. Marine Drugs, 20(7), 416.
Impact Factor: 6.085
DOI: https://doi.org/10.3390/md20070416
Quartile: 1
Editorial: MDPI
ISSN: 1660-3397

49. Molina-Grima E, García-Camacho F, Acién-Fernández FG, Sánchez-Mirón A, Plouviez M, Shene C, Chisti Y.2022 Pathogens and predators impacting commercial production of microalgae and cyanobacteria. Biotechnology Advances, 55, 107884.
Impact Factor: 17.681
DOI: https://doi.org/10.1016/j.biotechadv.2021.107884
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0734-9750

50. Alarcon C, Shene C. 2022.Arduino Soft Sensor for Monitoring *Schizochytrium* sp. Fermentation, a Proof of Concept for the Industrial Application of Genome-Scale Metabolic Models in the Context of Pharma 4.0. Processes, 10(11), 2226.
Impact Factor: 3.352
DOI: https://doi.org/10.3390/pr10112226
Quartile: 2
Editorial: MDPI
ISSN: 2227-9717

51. **Godoy R**, Mutis A, Carabajal Paladino L, Venthur H. 2022. Genome-Wide Identification of Aldehyde Oxidase Genes in Moths and Butterflies Suggests New Insights into Their Function as Odorant-Degrading Enzymes. Frontiers in Ecology and Evolution, 10.

Impact Factor: 4.496
DOI: https://doi.org/10.3389/fevo.2022.823119
Quartile: 2
Editorial: Frontiers Media SA, Switzerland
ISSN: 2296-701X

52. **Vergara D**, Loza-Rodríguez N, Acevedo F, Bustamante M, López O. 2022. Povidone-iodine loaded bigels: Characterization and effect as a hand antiseptic agent. Journal of Drug Delivery Science and Technology, 72, 103427.
Impact Factor: 5.062
DOI: https://doi.org/10.1016/j.jddst.2022.103427
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 1773-2247

53. Lezcano MF, Álvarez G, Chuhuaicura P, Godoy K, Alarcón J, Acevedo F, Gareis I, Dias FJ. 2022. Polyhydroxybutyrate (PHB) Scaffolds for Peripheral Nerve Regeneration: A Systematic Review of Animal Models. Biology, 11(5), 706.
Impact Factor: 5.168
DOI: https://doi.org/10.3390/biology11050706
Quartile: 1
Editorial: MDPI
ISSN: 2079-7737

54. Morales-Medina R, Drusch S, Acevedo F, Castro-Alvarez A, Benie A, Poncelet D, Dragosavac M M, Defain Tesoriero M V, Löwenstein P, Yonaha V, Iturralde R, Gauna Peter R, de Vos P. 2022. Structure, controlled release mechanisms and health benefits of pectins as an encapsulation material for bioactive food components. Food & Function, 13(21), 10870–10881.
Impact Factor: 6.317
DOI: https://doi.org/10.1039/D2FO00350C
Quartile: 1
Editorial: Royal Society of Chemistry Publications
ISSN: 2042-6496

55. Rojas-Torres J, Cea M, Zhu Y-J, Fonseca GM. 2022. Behavior of 4 types of paper with printed QR codes for evaluating denture marking in conditions of extreme heat. The Journal of Prosthetic Dentistry, 127(4), 645–650.
Impact Factor: 4.148
DOI: https://doi.org/10.1016/j.prosdent.2020.08.032
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0022-3913

56. Diez MC, Llafquen C, Fincheira P, Lamilla C, Briceño G, Schalchli H. 2022. Biosurfactant Production by Bacillus amyloliquefaciens C11 and *Streptomyces lavendulae* C27 Isolated from a Biopurification System for Environmental Applications. Microorganisms, 10(10), 1892.
Impact Factor: 4.926
DOI: https://doi.org/10.3390/microorganisms10101892
Quartile: 2
Editorial: MDPI
ISSN: 2076-2607

57. Coelho BCS, da Silva DMMC, Hermosilla ED, Teixeira RSS, Bon EPS, Diez MC, Ferreira-Leitão VS, da Silva AS. 2022. A Prior Biological Delignification Treatment as an Aid for the Hydrothermal Pretreatment of Sugarcane Straw. Waste and Biomass Valorization, 13(12), 4881–4895.
Impact Factor: 3.449
DOI: https://doi.org/10.1007/s12649-022-01834-6
Quartile: 3

Editorial: Springer Publishing
ISSN: 1877-2641

58. Novoa CC, Tortella G, Seabra AB, Diez MC, Rubilar O. 2022. Cotton Textile with Antimicrobial Activity and Enhanced Durability Produced by L-Cysteine-Capped Silver Nanoparticles. Processes, 10(5), 958.
Impact Factor: 3.352
DOI: https://doi.org/10.3390/pr10050958
Quartile: 2
Editorial: MDPI
ISSN: 2227-9717

59. Duran P, Barra PJ, Mora ML, Nunes-Nesi A, Merino-Gergichevich C. 2022. Boron and Zinc Diminish Grey Necrosis Incidence by the Promotion of Desirable Microorganisms on Hazelnut Orchards. Agronomy, 12(4), 868.
Impact Factor: 3.949
DOI: https://doi.org/10.3390/agronomy12040868
Quartile: 1
Editorial: MDPI
ISSN: 2073-4395

60. **Paredes C**, Staunton S, Durán P, Rodríguez R, Mora ML. 2022. Assessment of the combined effects of beef cattle manure and lemon peel waste on soil-plant biochemical properties and phosphorus uptake by ryegrass. Applied Soil Ecology, 169, 104217.
Impact Factor: 5.509
DOI: https://doi.org/10.1016/j.apsoil.2021.104217
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0929-1393

61. Suazo-Hernández J, Klumpp E, Arancibia-Miranda N, Jara A, Poblete-Grant P, Sepúlveda P, Bol R, Mora ML. 2022. Combined Effect of Soil Particle Size Fractions and Engineered Nanoparticles on Phosphate Sorption Processes in Volcanic Soils Evaluated by Elovich and Langmuir–Freundlich Models. Journal of Soil Science and Plant Nutrition, 22(3), 3685–3696.
Impact Factor: 3.600
DOI: https://doi.org/10.1007/s42729-022-00919-4
Quartile: 2
Editorial: Springer Publishing
ISSN: 0718-9508

62. Aguilera P, Ortiz N, Becerra N, Turrini A, Gaínza-Cortés F, Silva-Flores P, Aguilar-Paredes A, Romero JK, Jorquera-Fontena E, Mora ML, Borie F. 2022. Application of Arbuscular Mycorrhizal Fungi in Vineyards: Water and Biotic Stress Under a Climate Change Scenario: New Challenge for Chilean Grapevine Crop. Frontiers in Microbiology, 13.
Impact Factor: 6.064
DOI: https://doi.org/10.3389/fmicb.2022.826571
Quartile: 1
Editorial: Frontiers Media SA, Switzerland
ISSN: 1664-302X

63. **Poblete-Grant P**, Cartes P, **Pontigo S**, Biron P, Mora M L, Rumpel C. 2022. Phosphorus fertilizer source determines the allocation of root-derived organic carbon to soil organic matter fractions. Soil Biology and Biochemistry, 167, 108614.
Impact Factor: 8.546
DOI: https://doi.org/10.1016/j.soilbio.2022.108614
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0038-0717

64. Palacios-Peralta C, Ruiz A, Ercoli S, Reyes-Díaz M, Bustamante M, Muñoz A, Osorio P, Ribera-Fonseca A. 2022. Plastic Covers and Potassium Pre-Harvest Sprays and Their Influence on Antioxidant Properties, Phenolic Profile, and Organic Acids Composition of Sweet Cherry Fruits Cultivated in Southern Chile. Plants, 12(1), 50.
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants12010050
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

65. González-Villagra J, Omena-Garcia RP, Rodrigues-Salvador A, Nunes-Nesi A, Cohen JD, Reyes-Díaz MM. 2022. Differential physiological and metabolic responses in young and fully expanded leaves of Aristotelia chilensis plants subjected to drought stress. Environmental and Experimental Botany, 196, 104814.
Impact Factor: 6.068
DOI: https://doi.org/10.1016/j.envexpbot.2022.104814
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0098-8472

66. Ondrasek G, Rathod S, Manohara KK, Gireesh C, Anantha MS, Sakhare AS, Parmar B, Yadav BK, Bandumula N, Raihan F, Zielińska-Chmielewska A, Meriño-Gergichevich C, Reyes-Díaz M, Khan A, Panfilova O, Seguel Fuentealba A, Romero SM, Nabil B, Wan C (Craig), Horvatinec J. 2022. Salt Stress in Plants and Mitigation Approaches. Plants, 11(6), 717.
Impact Factor: 6.068
DOI: https://doi.org/10.3390/plants11060717
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

67. Inostroza-Blancheteau C, Sandoval Y, Reyes-Díaz M, Tighe-Neira R, González-Villagra J. 2022. Phytochemical characterization and antioxidant properties of *Prumnopitys andina* fruits in different ripening stages in southern Chile. Chilean Journal of Agricultural Research, 82(2), 285–293.
Impact Factor: 1.917
DOI: https://doi.org/10.4067/S0718-58392022000200285
Quartile: 2
Editorial: -
ISSN: 0718-5839

68. Palacios-Peralta C, Reyes-Díaz M, González-Villagra J, Ribera-Fonseca A. 2022. The Potential Roles of the N and P Supplies on the Internal Browning Incidence in Sweet Cherries in Southern Chile. Horticulturae, 8(12), 1209.
Impact Factor: 2.923
DOI: https://doi.org/10.3390/horticulturae8121209
Quartile: 1
Editorial: MDPI
ISSN: 2311-7524

69. Parada-Pozo G, Bravo LA, Sáez PL, Cavieres LA, Reyes-Díaz M, Abades S, Alfaro FD, de la Iglesia R, Trefault N. 2022. Vegetation drives the response of the active fraction of the rhizosphere microbial communities to soil warming in Antarctic vascular plants. FEMS Microbiology Ecology, 98(11).
Impact Factor: 4.519
DOI: https://doi.org/10.1093/femsec/fiac099
Quartile: 2
Editorial: Oxford University Press
ISSN: 0168-6496

70. González-Villagra J, Reyes-Díaz MM, Tighe-Neira R, Inostroza-Blancheteau C, Escobar AL, Bravo LA. 2022. Salicylic Acid Improves Antioxidant Defense System and Photosynthetic Performance in *Aristotelia*

chilensis Plants Subjected to Moderate Drought Stress. Plants, 11(5), 639.
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants11050639
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

71. Sotomayor-Gerding D, Morales E, Rubilar M. 2022. Comparison between Quinoa and *Quillaja saponins* in the Formation, Stability and Digestibility of Astaxanthin-Canola Oil Emulsions. Colloids and Interfaces, 6(3), 43.
Impact Factor: 2.400
DOI: https://doi.org/10.3390/colloids6030043
Quartile: 4
Editorial: MDPI
ISSN: 2504-5377

72. Castro-Varela P, Celis-Pla PSM, Figueroa FL, Rubilar M. 2022. Highly Efficient Water-Based Extraction of Biliprotein R-Phycoerythrin From Marine the Red-Macroalga *Sarcopeltis skottsbergii* by Ultrasound and High-Pressure Homogenization Methods. Frontiers in Marine Science, 9.
Impact Factor: 5.247
DOI: https://doi.org/10.3389/fmars.2022.877177
Quartile: 1
Editorial: Frontiers Media SA, Switzerland
ISSN: 2296-7745

73. Sotomayor-Gerding D, Troncoso JM, Díaz-Riquelme K, Torres-Obreque KM, Cumilaf J, Yañez AJ, Rubilar M. 2022. Microencapsulation of *Piscirickettsia salmonis* Antigens for Fish Oral Immunization: Optimization and Stability Studies. Polymers, 14(23), 5115.
Impact Factor: 4.967
DOI: https://doi.org/10.3390/polym14235115
Quartile: 1
Editorial: MDPI
ISSN: 2073-4360

74. Quilaqueo M, Iturra N, Contardo I, Millao S, Morales E, Rubilar M. 2022. Food-Grade Bigels with Potential to Replace Saturated and Trans Fats in Cookies. Gels, 8(7), 445.
Impact Factor: 4.432
DOI: https://doi.org/10.3390/gels8070445
Quartile: 1
Editorial: MDPI
ISSN: 2310-2861

75. Meier S, Morales A, López-Olivari R, Matus I, **Aponte H**, **de Souza Campos P**, Khan N, Cartes P, Meriño-Gergichevich C, Castillo D, Seguel A. 2022. Synergistic role between phosphorus and water use efficiency in spring wheat genotypes. Agricultural Water Management, 263, 107481.
Impact Factor: 6.611
DOI: https://doi.org/10.1016/j.agwat.2022.107481
Quartile:1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0378-3774

76. Cortez N, Marín V, Jiménez VA, Silva V, Leyton O, Cabrera-Pardo JR, Schmidt B, Heydenreich M, Burgos V, Duran P, Paz C. 2022. Drimane Sesquiterpene Alcohols with Activity against Candida Yeast Obtained by Biotransformation with *Cladosporium antarcticum*. International Journal of Molecular Sciences, 23(21), 12995.
Impact Factor: 6.208
DOI: https://doi.org/10.3390/ijms232112995
Quartile: 1

Editorial: MDPI
ISSN: 1661-6596

77. **de Souza Campos PM**, Meier S, Morales A, Lavanderos L, Nahuelcura J, Ruiz A, López-García Á, Seguel A. 2022. New Insights into the Phosphorus Acquisition Capacity of Chilean Lowland Quinoa Roots Grown under Low Phosphorus Availability. Plants, 11(22), 3043.
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants11223043
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

78. **de Souza Campos PM,** Meier S, Morales A, Borie F, Cornejo P, Ruiz A, Seguel A. 2022. Root traits distinguish phosphorus acquisition of two wheat cultivars growing in phosphorus-deficient acid soil. Rhizosphere, 22, 100549.
Impact Factor: 3.437
DOI: https://doi.org/10.1016/j.rhisph.2022.100549
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 2452-2198

79. Saez JM, González SK, Ocante TAL, Bigliardo AL, Briceño GE, Benimeli CS. 2022. Actinobacteria bioaugmentation and substrate evaluation for biobeds useful for the treatment of atrazine residues in agricultural fields. Journal of Environmental Management, 320, 115870.
Impact Factor: 8.910
DOI: https://doi.org/10.1016/j.jenvman.2022.115870
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0301-4797

80. **Santander C**, Vidal G, Ruiz A, **Vidal C**, Cornejo P. 2022. Salinity Eustress Increases the Biosynthesis and Accumulation of Phenolic Compounds That Improve the Functional and Antioxidant Quality of Red Lettuce. Agronomy, 12(3), 598.
Impact Factor: 3.949
DOI: https://doi.org/10.3390/agronomy12030598
Quartile: 1
Editorial: MDPI
ISSN: 2073-4395

81. Valdebenito A, Nahuelcura J, **Santander C**, Cornejo P, Contreras B, Gómez-Alonso S, Ruiz A. 2022. Physiological and Metabolic Effects of the Inoculation of Arbuscular Mycorrhizal Fungi in *Solanum tuberosum* Crops under Water Stress. Plants, 11(19), 2539.
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants11192539
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

82. Fritz V, Tereucán G, Santander C, Contreras B, Cornejo P, Ferreira PAA, Ruiz A. 2022. Effect of Inoculation with Arbuscular Mycorrhizal Fungi and Fungicide Application on the Secondary Metabolism of Solanum tuberosum Leaves. Plants, 11(3), 278.
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants11030278
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

83. **Manterola-Barroso C**, Godoy K, Alarcón D, Padilla D, Meriño-Gergichevich C. 2022. Antioxidants in Shell and Nut Yield Components after Ca, Mg and K Preharvest Spraying on Hazelnut Plantations in Southern Chile. Plants, 11(24), 3536.
Impact Factor: 4.658
DOI: https://doi.org/10.3390/plants11243536
Quartile: 1
Editorial: MDPI
ISSN: 2223-7747

84. Abdallah K, Stock SC, Heeger F, Koester M, **Nájera F**, Matus F, Merino C, Spielvogel S, Gorbushina AA, Kuzyakov Y, Dippold MA. 2022. Nitrogen Gain and Loss Along an Ecosystem Sequence: From Semi-desert to Rainforest. Frontiers in Soil Science, 2.
Impact Factor: -
DOI: https://doi.org/10.3389/fsoil.2022.817641
Quartile: -
Editorial: Frontiers Media SA, Switzerland
ISSN: 2673-8619

85. Fustos-Toribio I, Manque-Roa N, Vásquez Antipan D, Hermosilla Sotomayor M, Letelier Gonzalez V. 2022. Rainfall-induced landslide early warning system based on corrected mesoscale numerical models: an application for the southern Andes. Natural Hazards and Earth System Sciences, 22(6), 2169–2183.
Impact Factor: 4.580
DOI: https://doi.org/10.5194/nhess-22-2169-2022
Quartile: 1
Editorial: EGU Publications
ISSN: 1561-8633

86. Tremiño RM, Real-Herraiz T, Letelier V, Ortega JM. 2022. Microstructure and mechanical properties of ternary mortars with brick powder, glass powder, slag, fly ash, and limestone. International Journal of Applied Ceramic Technology, 19(4), 2135–2147.
Impact Factor: 2.100
DOI: https://doi.org/10.1111/ijac.14012
Quartile: 2
Editorial: Wiley, USA
ISSN: 1546-542X

87. Ramírez AMR, del Valle MA, Ortega E, Díaz FR, Gacitúa MA. 2022. Capacitors Based on Polypyrrole Nanowire Electrodeposits. Polymers, 14(24), 5476.
Impact Factor: 4.967
DOI: https://doi.org/10.3390/polym14245476
Quartile: 1
Editorial: MDPI
ISSN: 2073-4360

88. Urzúa E, Gonzalez-Torres F, Beltrán V, Barrias P, Bonardd S, Ramírez AMR, Ahumada M. 2022. Ag@Au bimetallic nanoparticles: an easy and highly reproducible synthetic approach for photocatalysis. Nanoscale Advances, 4(22), 4789–4797.
Impact Factor: 5.598
DOI: https://doi.org/10.1039/D2NA00539E
Quartile: 2
Editorial: Royal Society of Chemistry Publications
ISSN: 2516-0230

89. Ramírez AMR, Mieres F, Pineda F, Grez P, Heyser C. 2022. Electrosynthesis of polyindole-carboxylic acids on stainless steel and their corrosion protection at different temperatures in acidic solution. Progress in Organic Coatings, 172, 107075.
Impact Factor: 6.600
DOI: https://doi.org/10.1016/j.porgcoat.2022.107075
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0300-9440

90. Chen N, Liu M, Allen S, Deng M, Khanal NR, Peng T, Tian S, Huggel C, Wu K, Rahman M, Somos-Valenzuela M. (2023). Small outbursts into big disasters: Earthquakes exacerbate climate-driven cascade processes of the glacial lakes failure in the Himalayas. Geomorphology, 422, 108539.
Impact Factor: 4.406
DOI: https://doi.org/10.1016/j.geomorph.2022.108539
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0169-555X

91. Lillo-Saavedra M, Espinoza-Salgado A, García-Pedrero A, Souto C, Holzapfel E, Gonzalo-Martín C, Somos-Valenzuela M, Rivera D. 2022. Early Estimation of Tomato Yield by Decision Tree Ensembles. Agriculture, 12(10), 1655.
Impact Factor: 3.408
DOI: https://doi.org/10.3390/agriculture12101655
Quartile: 1
Editorial: MDPI
ISSN: 2077-0472

92. Boso À, Ibarra S, Gómez L, Álvarez B, Herranz C, Somos-Valenzuela M, Garrido J. (2023). Unveiling Spatial Patterns of Exposure and Risk Perception to Air Pollution: A Case Study in Chilean Patagonia. Society & Natural Resources, 36(9), 1060–1077.
Impact Factor: 3.024
DOI: https://doi.org/10.1080/08941920.2022.2113007
Quartile: 2
Editorial: Taylor & Francis Inc, USA
ISSN: 0894-1920

93. Fernández A, Somos-Valenzuela M. 2022. Revisiting glacier mass-balance sensitivity to surface air temperature using a data-driven regionalization. Journal of Glaciology, 68(272), 1041–1060.
Impact Factor: 4.278
DOI: https://doi.org/10.1017/jog.2022.16
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0022-1430

94. Boso À, Martínez A, Somos M, Álvarez B, Avedaño C, Hofflinger Á. 2022. No Country for Old Men. Assessing Socio-Spatial Relationships Between Air Quality Perceptions and Exposures in Southern Chile. Applied Spatial Analysis and Policy, 15(4), 1219–1236.
Impact Factor: 2.043
DOI: https://doi.org/10.1007/s12061-022-09446-2
Quartile: 2
Editorial: Springer Publishing
ISSN: 1874-463X

95. Tian S, Hu G, Chen N, Rahman M, Han Z, Somos-Valenzuela M, Maurice Habumugisha J. 2022. Extreme climate and tectonic controls on the generation of a large-scale, low-frequency debris flow. CATENA, 212, 106086.
Impact Factor: 6.367
DOI: https://doi.org/10.1016/j.catena.2022.106086
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0341-8162

96. Chen N, Liu M, Allen S, Deng M, Khanal NR, Peng T, Tian S, Huggel C, Wu K, Rahman M, Somos-Valenzuela M. (2023). Small outbursts into big disasters: Earthquakes exacerbate climate-driven cascade processes of the glacial lakes failure in the Himalayas. Geomorphology, 422, 108539.
Impact Factor: 4.406
DOI: https://doi.org/10.1016/j.geomorph.2022.108539
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0169-555X

97. Morales B, Garcia-Pedrero A, Lizama E, Lillo-Saavedra M, Gonzalo-Martín C, Chen N, Somos-Valenzuela M. 2022. Patagonian Andes Landslides Inventory: The Deep Learning's Way to Their Automatic Detection. Remote Sensing, 14(18), 4622.
Impact Factor: 5.349
DOI: https://doi.org/10.3390/rs14184622
Quartile: 1
Editorial: MDPI
ISSN: 2072-4292

98. Lizama E, Morales B, Somos-Valenzuela M, Chen N, Liu M. 2022. Understanding Landslide Susceptibility in Northern Chilean Patagonia: A Basin-Scale Study Using Machine Learning and Field Data. Remote Sensing, 14(4), 907.
Impact Factor: 5.349
DOI: https://doi.org/10.3390/rs14040907
Quartile: 1
Editorial: MDPI
ISSN: 2072-4292

99. Burgos-Díaz C, Opazo-Navarrete M, Palacios JL, Verdugo L, Anguita-Barrales F, Bustamante M. 2022. Food-grade bioactive ingredient obtained from the Durvillaea incurvata brown seaweed: Antibacterial activity and antioxidant activity. Algal Research, 68, 102880.
Impact Factor: 5.276
DOI: https://doi.org/10.1016/j.algal.2022.102880
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 2211-9264

100. Burgos-Díaz C, Mosi-Roa Y, Opazo-Navarrete M, Bustamante M, Garrido-Miranda K. 2022. Comparative Study of Food-Grade Pickering Stabilizers Obtained from Agri-Food Byproducts: Chemical Characterization and Emulsifying Capacity. Foods, 11(16), 2514.
Impact Factor: 5.561
DOI: https://doi.org/10.3390/foods11162514
Quartile: 1
Editorial: MDPI
ISSN: 2304-8158

101. Kreibich H, van Loon AF, Schröter K, Ward PJ, Mazzoleni M, Sairam N, Abeshu GW, Agafonova S, AghaKouchak A, Aksoy H, Alvarez-Garreton C, Aznar B, Balkhi L, Barendrecht MH, Biancamaria S, Bos-Burgering L, Bradley C, Budiyono Y, Buytaert W, … di Baldassarre G. 2022. The challenge of unprecedented floods and droughts in risk management. Nature, 608(7921), 80–86.
Impact Factor: 69.504
DOI: https://doi.org/10.1038/s41586-022-04917-5
Quartile: 1
Editorial: Nature Publishing
ISSN: 0028-0836

102. Gimeno F, Galleguillos M, Manuschevich D, Zambrano-Bigiarini M. 2022. A coupled modeling approach to assess the effect of forest policies in water provision: A biophysical evaluation of a drought-prone rural catchment in south-central Chile. Science of The Total Environment, 830, 154608.
Impact Factor: 10.754
DOI: https://doi.org/10.1016/j.scitotenv.2022.154608
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0048-9697

103. Spirito F, Vieli L, Montalba R. 2022. Advancing towards an understanding of the relationship between culture and agrobiodiversity. A case study in Mapuche territory, southern Chile. NJAS: Impact in Agricultural and Life Sciences, 94(1), 1–23.
Impact Factor: -
DOI: https://doi.org/10.1080/27685241.2022.2083987
Quartile: -
Editorial: Taylor & Francis Inc, USA
ISSN: 2768-5241

104. Renderos L, Zúñiga-Feest A, Delgado M, Muñoz G, Carú M, Orlando J. 2022. Cluster roots of Embothrium coccineum growing under field conditions differentially shape microbial diversity according to their developmental stage. Journal of Soil Science and Plant Nutrition, 22(2), 2418–2433.
Impact Factor: 3.600
DOI: https://doi.org/10.1007/s42729-022-00818-8
Quartile: 2
Editorial: MDPI
ISSN: 0718-9508

105. Clunes J, Valle S, Dörner J, Campos M, Medina J, Zuern S, Lagos L. 2022. Changes in Soil Quality of an Urban Wetland as a Result of Anthropogenic Disturbance. Land, 11(3), 394.
Impact Factor: 3.905
DOI: https://doi.org/10.3390/land11030394
Quartile: 2
Editorial: MDPI
ISSN: 2073-445X

106. Fuentes-Ramirez A, Almonacid-Muñoz L, Muñoz-Gómez N, Moloney KA. 2022. Spatio-Temporal Variation in Soil Nutrients and Plant Recovery across a Fire-Severity Gradient in Old-Growth Araucaria-Nothofagus Forests of South-Central Chile. Forests, 13(3), 448.
Impact Factor: 3.282
DOI: https://doi.org/10.3390/f13030448
Quartile: 1
Editorial: MDPI
ISSN: 1999-4907

107. Almonacid-Muñoz L, Herrera H, Fuentes-Ramírez A, Vargas-Gaete R, Larama G, Jara R, Fernández-Urrutia C, da Silva Valadares RB. 2022. Tree Cover Species Modify the Diversity of Rhizosphere-Associated Microorganisms in *Nothofagus obliqua* (Mirb.) Oerst Temperate Forests in South-Central Chile. Forests, 13(5), 756.
Impact Factor: 3.282
DOI: https://doi.org/10.3390/f13050756
Quartile: 1
Editorial: MDPI
ISSN: 1999-4907

108. Zúñiga AH, Rau JR, Fierro A, Vergara PM, Encina-Montoya F, Fuentes-Ramírez A, Jaksic FM. 2022. Fire Severity Causes Temporal Changes in Ground-Dwelling Arthropod Assemblages of Patagonian Araucaria–Nothofagus Forests. Fire, 5(5), 168.
Impact Factor: 3.282
DOI: https://doi.org/10.3390/fire5050168
Quartile: 1
Editorial: MDPI
ISSN: 1999-4907

109. Viljur M, Abella SR, Adámek M, Alencar JBR, Barber NA, Beudert B, Burkle LA, Cagnolo L, Campos BR, Chao A, Chergui B, Choi C, Cleary DFR, Davis TS, Dechnik-Vázquez YA, Downing WM, Fuentes-Ramirez A, Gandhi KJK, Gehring C, Thorn S. 2022. The effect of natural disturbances on forest biodiversity: an ecological synthesis. Biological Reviews, 97(5), 1930–1947.
Impact Factor: 14.355
DOI: https://doi.org/10.1111/brv.12876
Quartile: 1
Editorial: Wiley, USA
ISSN: 1464-7931

110. Velázquez L, Quiñones J, Inostroza K, Sepúlveda G, Díaz R, Scheuermann E, Domínguez R, Lorenzo JM, Velásquez C, Sepúlveda N. 2022. Maqui (*Aristotelia chilensis* (Mol.) Stuntz): A Natural Antioxidant to Improve Quality of Meat Patties. Antioxidants, 11(7), 1405.
Impact Factor: 7.675
DOI: https://doi.org/10.3390/antiox11071405
Quartile: 1
Editorial: MDPI
ISSN: 2076-3921

111. Muñoz E, Rojas V, Cáceres G, López S, Navarrete E, Herrera F, Caballero Á, Gomez-Camer JL. 2022. Novel Rechargeable Lithium-Ion Battery Based on a Cathode of Potassium-Cobalt(II) Octacyanomolybdate. ECS Meeting Abstracts, MA2022-02(3), 319–319.
Impact Factor: -
DOI: https://doi.org/10.1149/MA2022-023319mtgabs
Quartile: -
Editorial: IOP Publishing
ISSN: 2151-2043

112. Heyser Valencia C, Inostroza-Pino N. 2022. Methanediol CH2(OH)2 and hydroxymethyl CH2OH+: key organic intermediates on the path to complex organic molecules. Astronomy & Astrophysics, 664, A85.
Impact Factor: 6.240
DOI: https://doi.org/10.1051/0004-6361/202243520
Quartile: 1
Editorial: EDP Sciences
ISSN: 0004-6361

113. Leyton-Carcaman B, Abanto M. 2022. Beyond to the Stable: Role of the Insertion Sequences as Epidemiological Descriptors in Corynebacterium striatum. Frontiers in Microbiology, 13.

Impact Factor: 6.064
DOI: https://doi.org/10.3389/fmicb.2022.806576
Quartile: 1
Editorial: Frontiers Media SA, Switzerland
ISSN: 1664-302X

114. Soto-Cerda BJ, Larama G, Gajardo H, Inostroza-Blancheteau C, Cloutier S, Fofana B, Abanto M, Aravena G. 2022. Integrating multi-locus genome-wide association studies with transcriptomic data to identify genetic loci underlying adult root trait responses to drought stress in flax (*Linum usitatissimum* L.). Environmental and Experimental Botany, 202, 105019.
Impact Factor: 6.028
DOI: https://doi.org/10.1016/j.envexpbot.2022.105019
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0098-8472

115. Abanto Marin M, Leyton-Carcaman B, Vázquez C, Durán-Vinet B, Bobadilla K, Rodriguez-Ruiz C, San Martín A, Riquelme P, Baez F, Carrasco MJ, Rodríguez-Moretti G, Cerda Á, Saavedra N, Mora ML. 2022. Genome Sequences of 408 SARS-CoV-2 Strains Obtained from Nasopharyngeal Swabs in La Araucanía Region, Southern Chile. Microbiology Resource Announcements, 11(4).
Impact Factor: 0.2
DOI: https://doi.org/10.1128/mra.00121-22
Quartile: 4
Editorial: ASM Journals
ISSN: 2576-098X

116. Madariaga-Troncoso, D, Leyton-Carcaman, B, Garcia, M, Kawai, M, Abanto Marin, M. 2022. Comprehensive Genome Analysis of Neisseria meningitidis from South America Reveals a Distinctive Pathogenicity-Related Prophage Repertoire. International Journal of Molecular Sciences, 23(24), 15731.
Impact Factor: 6.208
DOI: https://doi.org/10.3390/ijms232415731
Quartile: 1
Editorial: MDPI
ISSN: 1661-6596

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