

2023 Refereed Science Publications

Journal articles and conference proceedings papers from Scion – January to December 2023

- Abbel, R., Laroche, O., Pantos, O., Kingsbury, J. M., Zaiko, A., Wallbank, J. A., Lear, G., Thompson-Laing, J., Audrézet, F., Maday, S. D. M., Doake, F., Barbier, M., Masterton, H., Risani, R., Smith, D. A., Theobald, B., Weaver, L., & Pochon, X. (2023). A spatio-temporal analysis of marine diatom communities associated with pristine and aged plastics. *Biofouling*, *39*(4), 427-443. Article 2226069. <https://doi.org/10.1080/08927014.2023.2226069>
- Addison, S., Armstrong, C., Wigley, K., Hartley, R., & Wakelin, S. (2023). What matters most? Assessment of within-canopy factors influencing the needle microbiome of the model conifer, *Pinus radiata*. *Environmental Microbiome*, *18*(1), Article 45. <https://doi.org/10.1186/s40793-023-00507-8>
- Addison, S. L., Rua, M., Smaill, S. J., Daley, K., Singh, B., & Wakelin, S. A. (2023). Getting to the root of tree soil microbiome sampling. *Phytobiomes Journal*. <https://doi.org/10.1094/PBIOMES-09-22-0060-R>
- Anders, N., Wilson, L. F. L., Sorieul, M., Nikolovski, N., & Dupree, P. (2023). β -1,4-Xylan backbone synthesis in higher plants: How complex can it be? *Frontiers in Plant Science*, *13*, Article 1076298. <https://doi.org/10.3389/fpls.2022.1076298>
- Arpanaei, A., Singh, T., & Fu, Q. (2023). Nanotechnology approaches towards biodeterioration-resistant wood: A Review. *Journal of Bioresources and Bioproducts*. <https://doi.org/10.1016/j.jobab.2023.09.001>
- Avila, G. A., MacDonald, F. H., Hunt, S. K., Santos, K., Alavi, M., Pugh, A. R., Gresham, B. A., Pearce, B., Prache, A., & Withers, T. M. (2023). Field assessment of parasitism on the New Zealand endemic *Nyctemera annulata* by *Cotesia urabae*: Can non-target impacts be ruled out? *Biological Control*, *178*, Article 105136. <https://doi.org/10.1016/j.biocontrol.2022.105136>
- Barratt, B. I. P., Meenken, E. D., & Withers, T. M. (2023). Characterising uncertainty in risk assessments for biological control: Using case studies from New Zealand to inform future research. *BioControl*, *68*(2), 101-115. <https://doi.org/10.1007/s10526-023-10181-x>
- Bartlick, C. I., Burton, J. I., Webster, C. R., Froese, R. E., Hupperts, S. F., & Dickinson, Y. (2023). Artificial tip-up mounds influence tree seedling composition in a managed northern hardwood forest. *Canadian Journal of Forest Research*, *00*, 1-12. <https://cdnsiencepub.com/doi/10.1139/cjfr-2022-0252>
- Bartlick, C. I., Burton, J. I., Webster, C. R., Froese, R. E., & Dickinson, Y. L. (2023). An experimental approach to identify drivers of tree regeneration diversity, composition, and heterogeneity in northern hardwood forests. *Forest Ecology and Management*, *546*, Article 121320. <https://doi.org/10.1016/j.foreco.2023.121320>
- Bloomberg, M., Palmer, D. J., Hall, P. W., & McWilliams, V. (2023). Does New Zealand have enough economically viable land for *Pinus radiata* afforestation to meet its climate change targets? *New Zealand Journal of Forestry*, *68*(1), 17-21.
- Bonnamour, A., Blake, R., Liebhold, A. M., Nahrung, H. F., Roques, A., Turner, R., Yamanaka, T., & Bertelsmeier, C. (2023). Historical plant introductions predict current insect invasions. *Proceedings of the National Academy of Sciences of the United States of America*, *120*(24), Article e2221826120. <https://doi.org/10.1073/pnas.2221826120>
- Bourdon, M., Lyczakowski, J. J., Cresswell, R., Amsbury, S., Vilaplana, F., Le Guen, M. J., Follain, N., Wightman, R., Su, C., Alatorre-Cobos, F., Ritter, M., Liszka, A., Terrett, O. M., Yadav, S. R., Vatén, A., Nieminen, K., Eswaran, G., Alonso-Serra, J., Müller, K. H., ... Helariutta, Y. (2023). Ectopic callose deposition into woody biomass modulates the nano-architecture of microfibrils. *Nature Plants*, *9*(9), 1530-1546. <https://doi.org/10.1038/s41477-023-01459-0>

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- Bridson, J. H., Abbel, R., Smith, D. A., Northcott, G. L., & Gaw, S. (2023). Release of additives and non-intentionally added substances from microplastics under environmentally relevant conditions. *Environmental Advances*, *12*, Article 100359. <https://doi.org/10.1016/j.envadv.2023.100359>
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- Byers, A., Garrett, L. G., Armstrong, C., Dean, F., & Wakelin, S. A. (2023). Soil depth as a driver of microbial and carbon dynamics in a planted forest (*Pinus radiata*) pumice soil. *SOIL*, *9*(1), 55-70. <https://doi.org/10.5194/soil-9-55-2023>
- Byers, A. K., Condrón, L. M., O'Callaghan, M., Waller, L., Dickie, I. A., & Wakelin, S. A. (2023). Plant species identity and plant-induced changes in soil physicochemistry-but not plant phylogeny or functional traits - shape the assembly of the root-associated soil microbiome. *FEMS Microbiology Ecology*, *99*(11), Article fiad126. <https://doi.org/10.1093/femsec/fiad126>
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