

2022 Refereed Science Publications

Journal articles and conference proceedings papers from Scion – January to October 2022

Abbel, R., Greene, A., Quilter, H., Leveneur, J., Risani, R., Barbier, M., West, M. A., Collet, C., Kirby, N., & Sorieul, M. (2022). Crystallization behavior and sensing properties of bio-based conductive composite materials. *Advanced Engineering Materials*. <https://doi.org/10.1002/adem.202200959>

Aguilar-Arguello, S., Taylor, A., & Nelson, X. (2022). Jumping spiders do not seem fooled by texture gradient illusions. *Behavioural Processes*, 196. <https://doi.org/10.1016/j.beproc.2022.104603>

Ammitzboll, H., Jordan, G., Baker, S. C., & Freeman, J. (2022). Contrasting successional responses of soil bacteria and fungi to post-logging burn severity. *Forest Ecology and Management*, 508(15 March 2022). <https://doi.org/10.1016/j.foreco.2022.120059>

Armstrong, C., Sen, D., Walker, K., Garrett, L., Byers, A., & Wakelin, S. (2022). Genome sequence of *Dermacoccus* strain Tok2021, a soil Actinobacterium isolated from a *Pinus radiata* forest. *Microbiology Resource Announcements*, 11(2). <https://doi.org/10.1128/mra.00844-21>

Audrezet, F., Pochon, X., Floerl, O., Le Guen, M. J., Trochel, B., Gambarini, V., Lear, G., & Zaiko, A. (2022). Eco-plastics in the sea: Succession of micro- and macro-fouling on a biodegradable polymer augmented with oyster shell. *Frontiers in Marine Science*, 9. <https://doi.org/10.3389/fmars.2022.891183>

Barnagaud, J-Y., Brockerhoff, E. G., Mossion, R., Dufour, P., Pavoine, S., Deconchat, M., & Barbaro, L. (2022). Trait-habitat associations explain novel bird assemblages mixing native and alien species across New Zealand landscapes. *Diversity and Distributions*, 28(1), 38-52. <https://doi.org/10.1111/ddi.13432>

Bayne, K. M., Klinger, S., Payn, T. W., & Yao, R. T. (2022). Credence attributes and ESG investment – opportunities for New Zealand forestry marketing. *New Zealand Journal of Forestry*, 67(2), 23-29. https://www.nzjf.org.nz/new_issues/NZJF67_2_2022/42C2BE11-E1A2-4c5d-907C-261A4BEE9140.pdf

Bedoya, C. L., Nelson, X. J., Brockerhoff, E. G., Pawson, S., & Hayes, M. (2022). Experimental characterization and automatic identification of stridulatory sounds inside wood. *Royal Society Open Science*, 9(7). <https://doi.org/10.1098/rsos.220217>

Bento, A., Escórcio, R., Tomé, A. S., Robertson, M., Gaugler, E. C., Malthus, S., Raymond, L., Hill, S. J., & Silva Pereira, C. (2022). *Pinus radiata* bark sequentially processed using scCO₂ and an ionic liquid catalyst yields plentiful resin acids and alkanolic acids enriched suberin. *Industrial Crops and Products*, 185, 1-11. <https://doi.org/10.1016/j.indcrop.2022.115172>

Bhatt, P., Maclean, A., Dickinson, Y., & Kumar, C. (2022). Fine-scale mapping of natural ecological communities using machine learning approaches. *Remote Sensing*, 14(3). <https://doi.org/10.3390/rs14030563>

Brar, N. K., Grigsby, W. J., Hill, S. J., Raymond, L., & Weber, C. C. (2022). Understanding the effects of ionic liquids and antisolvent addition on the extraction and recovery of *Pinus radiata* bark components. *Journal of Wood Chemistry and Technology*, 42(4), 305-317. <https://doi.org/10.1080/02773813.2022.2088793>

Burdon, R. D., Bartlett, M., Slavov, G., & Fraser, S. (2022). Putative biotic drivers of plant phenology: With special reference to pathogens and deciduousness. *Ecology and Evolution*, 12(6), 1-15. <https://doi.org/10.1002/ece3.8932>

Burdon, R. D., & Low, C. B. (2022). Field performance of progenies of *Pinus radiata* selected for resistance to *Diplodia*-associated shoot dieback. *New Zealand Journal of Forestry Science*, 52. <https://doi.org/10.33494/nzjfs522022x217x>

Cao, X., Meng, Z., Song, E., Sun, X., Hu, X., Wenbin Li, L., Liu, Z., Gao, S., & Song, B. (2022). Co-adsorption capabilities and mechanisms of bentonite enhanced sludge biochar for de-risking norfloxacin and Cu²⁺ contaminated water. *Chemosphere*, 299. <https://doi.org/10.1016/j.chemosphere.2022.134414>

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- Esmailnejad-Ahranjani, P., & Arpanaei, A. (2022). pH Shock-promoted lysozyme corona for efficient pathogenic infections treatment: Effects of surface chemistry of mesoporous silica nanoparticles and loading method. *Enzyme and Microbial Technology*, *154*. <https://doi.org/10.1016/j.enzmictec.2021.109974>
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