

# 2015 Refereed Science Publications

Peer reviewed journal articles and conference proceedings papers from Scion.

Kolb, A., Meaclem, C., Chen, X., Parker, R., Gutschmidt, S., & Milne, B. (2015). Tree trunk detection system using LiDAR for a semi-autonomous tree felling robot. Paper presented at the Proceedings of the 2015 10th IEEE Conference on Industrial Electronics and Applications, ICIEA 2015.

Roques, A., Rousselet, J., Avci, M., Avtzis, D. N., Basso, A., Battisti, A., Ben Jamaa, M. L., Bensidi, A., Berardi, L., Berretima, W., Branco, M., Chakali, G., Çota, E., Dautbašić, M., Delb, H., El Alaoui El Fels, M. A., El Mercht, S., El Mokhefi, M., Forster, B., Garcia, J., Georgiev, G., Glavendekić, M. M., Goussard, F., Halbig, P., Henke, L., Hernández, R., Hódar, J. A., Ipekdal, K., Jurc, M., Klimetzek, D., Laparie, M., Larsson, S., Mateus, E., Matošević, D., Meier, F., Mendel, Z., Meurisse, N., Mihajlović, L., Mirchev, P., Nasceski, S., Nussbaumer, C., Paiva, M.-R., Papazova, I., Pino, J., Podlesnik, J., Poirot, J., Protasov, A., Rahim, N., Sánchez Peña, G., Santos, H., Sauvard, D., Schopf, A., Simonato, M., Tsankov, G., Wagenhoff, E., Yart, A., Zamora, R., Zamoum, M., & Robinet, C. (2015). Climate warming and past and present distribution of the processionary moths (*Thaumetopoea* spp.) in Europe, Asia Minor and North Africa. In A. Roques (Ed.), *Processionary Moths and Climate Change : An Update* (pp. 81-161). Dordrecht, Netherlands & Versailles, France: Springer & Éditions Quæ.

Arnet, M., Santos, B., Brockerhoff, E. G., Pelsler, P. B., Ecroyd, C., & Clemens, J. (2015). Importance of arboreta for *ex situ* conservation of threatened trees. *Biodiversity and Conservation*, 24(14), 3601-3620.

Bayne, K. M., Höck, B. K., Spence, H. R., Crawford, K. A., Payn, T. W., & Barnard, T. D. (2015). New Zealand school children's perceptions of local forests and the Montréal Process Criteria and Indicators: comparing local and international value systems. *New Zealand Journal of Forestry Science*, 45:20.

Chen, Y., Liu, L., Chung, H. J., & Nychka, J. A. (2015). Selective oil/water filter paper via a scalable one-pot hydrothermal growth of ZnO nanowires. *RSC Advances*, 5(110), 91001-91005.

Moore, J. R., & Cown, D. J. (2015). Processing of wood for wood composites. In M. Ansell (Ed.), *Wood Composites* (pp. 27-45).

Yao, R. T., Scarpa, R., Rose, J. M., & Turner, J. A. (2015). Experimental design criteria and their behavioural efficiency: an evaluation in the field. *Environmental and Resource Economics*, 62(3), 433-455.

Meder, R., Franich, R. A., Callaghan, P. T., & Behr, V. C. (2015). A comparative study of dewatering of *Pinus radiata* sapwood using supercritical CO<sub>2</sub> and conventional forced air-drying via *in situ* magnetic resonance microimaging (MRI). *Holzforschung*, 69(9), 1137-1142.

Gardner, J. F., Dick, M. A., & Bader, M. K. F. (2015). Susceptibility of New Zealand flora to *Phytophthora kernoviae* and its seasonal variability in the field. *New Zealand Journal of Forestry Science*, 45:23.

Kathirgamanathan, K., Grigsby, W. J., Al-Hakkak, J., & Edmonds, N. R. (2015). Two-dimensional FTIR as a tool to study the chemical interactions within cellulose-ionic liquid solutions. *International Journal of Polymer Science*, 2015.

Ray, D., Bathgate, S., Moseley, D., Taylor, P., Nicoll, B., Pizzirani, S., & Gardiner, B. (2015). Comparing the provision of ecosystem services in plantation forests under alternative climate change adaptation management options in Wales. *Regional Environmental Change*, 15(8), 1501-1513.

Todoroki, C. L., Low, C. B., McKenzie, H. M., & Gea, L. D. (2015). Radial variation in selected wood properties of three cypress taxa. *New Zealand Journal of Forestry Science*, 45:24.

Caird, A. R., Gielen, G. J. H. P., Dare, P., Devillard, C., Walter, C., & Gapes, D. (2015). Development of *Pinus radiata* suspension cultures from xylogenic callus. *New Zealand Journal of Forestry Science*, 45:25.

Suontama, M., Low, C. B., Stovold, G. T., Miller, M. A., Fleet, K. R., Li, Y., & Dungey, H. S. (2015). Genetic parameters and genetic gains across three breeding cycles for growth and form traits of *Eucalyptus regnans* in New Zealand. *Tree Genetics and Genomes*, 11(6), 1-14.

Goven, J., Langer, E. R. L., Baker, V., Ataria, J., & Leckie, A. (2015). A transdisciplinary approach to local waste management in New Zealand: Addressing interrelated challenges through indigenous partnership. *Futures*, 73, 22-36.

- Pont, D., Kimberley, M. O., Brownlie, R. K., Sabatia, C. O., & Watt, M. S. (2015). Calibrated tree counting on remotely sensed images of planted forests. *International Journal of Remote Sensing*, 36(15), 3819-3836.
- Scott, P. M., Barber, P. A., & Hardy, G. E. S. J. (2015). Novel phosphite and nutrient application to control *Phytophthora cinnamomi* disease. *Australasian Plant Pathology*, 44(4), 431-436.
- Watt, M. S., Dash, J. P., Bhandari, S., & Watt, P. (2015). Comparing parametric and non-parametric methods of predicting Site Index for radiata pine using combinations of data derived from environmental surfaces, satellite imagery and airborne laser scanning. *Forest Ecology and Management*, 357, 1-9.
- Avila, G. A., Withers, T. M., & Holwell, G. I. (2015). Host testing of the parasitoid *Cotesia urabae* (Austin & Allen, 1989) (Hymenoptera: Braconidae) to assess the risk posed to the New Zealand nolid moth *Celama parvitis* (Howes, 1917) (Lepidoptera: Nolidae): Do host deprivation and experience influence acceptance of non-target hosts? *Austral Entomology*, 54(3), 270-277.
- Murray, T. J., & Mansfield, S. (2015). Reproductive characteristics of invasive hyperparasitoid *Baeoanusia albifunicle* have implications for the biological control of eucalypt pest *Paropsis charybdis*. *Biological Control*, 91, 82-87.
- Greening, C., Carere, C. R., Rushton-Green, R., Harold, L. K., Hards, K., Taylor, M. C., Morales, S. E., Stott, M. B., & Cook, G. M. (2015). Persistence of the dominant soil phylum Acidobacteria by trace gas scavenging. *Proceedings of the National Academy of Sciences of the United States of America*, 112(33), 10497-10502.
- Wingfield, M. J., Brouckhoff, E. G., Wingfield, B. D., & Slippers, B. (2015). Planted forest health: The need for a global strategy. *Science*, 349(6250), 832-836.
- Ivković, M., Hamann, A., Gapare, W. J., Jovanovic, T., & Yanchuk, A. (2015). A framework for testing radiata pine under projected climate change in Australia and New Zealand. *New Forests*.
- Grace, J. C., Brownlie, R. K., & Kennedy, S. G. (2015). The influence of initial and post-thinning stand density on Douglas-fir branch diameter at two sites in New Zealand. *New Zealand Journal of Forestry Science*, 45(1).
- Moore, J. R., Cown, D. J., & McKinley, R. B. (2015). Modelling spiral grain angle variation in New Zealand-grown radiata pine. *New Zealand Journal of Forestry Science*, 45(1).
- Payn, T., Carnus, J. M., Freer-Smith, P., Kimberley, M., Kollert, W., Liu, S., Orazio, C., Rodriguez, L., Silva, L. N., & Wingfield, M. J. (2015). Changes in planted forests and future global implications. *Forest Ecology and Management*, 352, 57-67.
- Pearson, H., Ormarsson, S., & Gabbitas, B. (2015). Nonlinear tensile creep behavior of radiata pine at elevated temperatures and different moisture contents. *Holzforschung*, 69(7), 915-923.
- Telfer, E. J., Stovold, G. T., Li, Y., Silva, O. B., Jr., Grattapaglia, D. G., & Dungey, H. S. (2015). Parentage reconstruction in *Eucalyptus nitens* using SNPs and microsatellite markers: A comparative analysis of marker data power and robustness. *PLoS ONE*, 10(7).
- Murphy, G., & Cown, D. (2015). Stand, stem and log segregation based on wood properties: a review. *Scandinavian Journal of Forest Research*, 30(8), 757-770.
- Prince-Pike, A., Wilson, D. I., Baroutian, S., Andrews, J., & Gapes, D. J. (2015). A kinetic model of municipal sludge degradation during non-catalytic wet oxidation. *Water Research*, 87, 225-236.
- Battisti, A., Avci, M., Avtzis, D. N., Jamaa, M. L. B., Berardi, L., Berretima, W., Branco, M., Chakali, G., El Alaoui El Fels, M. A., Frérot, B., Hódar, J. A., Ionescu-Mălăncuș, I., Ipekdal, K., Larsson, S., Manole, T., Mendel, Z., Meurisse, N., Mirchev, P., Nemer, N., Paiva, M. R., Pino, J., Protasov, A., Rahim, N., Rousselet, J., Santos, H., Sauvard, D., Schopf, A., Simonato, M., Yart, A., & Zamoum, M. (2015). Natural history of the processionary moths (*Thaumetopoea* spp.): New insights in relation to climate change. In A. Roques (Ed.), *Processionary Moths and Climate Change: An Update* (pp. 15-79). Dordrecht, Netherlands & Versailles, France: Springer & Éditions Quæ.
- Jactel, H., Barbaro, L., Battisti, A., Bosc, A., Branco, M., Brouckhoff, E., Castagneyrol, B., Dulaurent, A. M., Hódar, J. A., Jacquet, J. S., Mateus, E., Paiva, M. R., Roques, A., Samalens, J. C., Santos, H., & Schlyter, F. (2015). Insect – tree interactions in *Thaumetopoea pityocampa*. In A. Roques (Ed.), *Processionary Moths and Climate Change: An Update* (pp. 265-310). Dordrecht, Netherlands & Versailles, France: Springer & Éditions Quæ.

- Murphy, G., & Cown, D. (2015). Within-tree, between-tree, and geospatial variation in estimated *Pinus radiata* bark volume and weight in New Zealand. *New Zealand Journal of Forestry Science*, 45:18.
- Donaldson, L. A., Nanayakkara, B., Radotić, K., Djikanovic-Golubović, D., Mitrović, A., Bogdanović Pristov, J., Simonović Radosavljević, J., & Kalauzi, A. (2015). Xylem parenchyma cell walls lack a gravitropic response in conifer compression wood. *Planta*, 242(6), 1413-1424.
- Parker, W. (2015). Growing and transforming the New Zealand forest industry. *Appita*, 68(1), 16-17.
- Torr, K. M., Love, K. T., Simmons, B. A., & Hill, S. J. (2015). Structural features affecting the enzymatic digestibility of pine wood pretreated with ionic liquids. *Biotechnology and Bioengineering*.
- Eschen, R., Britton, K., Brockerhoff, E., Burgess, T., Dalley, V., Epanchin-Niell, R. S., Gupta, K., Hardy, G., Huang, Y., Kenis, M., Kimani, E., Li, H. M., Olsen, S., Ormrod, R., Otieno, W., Sadof, C., Tadeu, E., & Theyse, M. (2015). International variation in phytosanitary legislation and regulations governing importation of plants for planting. *Environmental Science and Policy*, 51, 228-237. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84937839967&partnerID=40&md5=63d3c8a34cf4a5f7d38f885c8c3fa18e>
- Forster, W. A., & Kimberley, M. O. (2015). The contribution of spray formulation component variables to foliar uptake of agrichemicals. *Pest Management Science*, 71(9), 1324-1334. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84937709970&partnerID=40&md5=8c92ab6a643c0d4e55037f301ea67b63>
- Boldingh, H., Richardson, A., Minchin, P., & MacRae, E. (2015). Planteose is a major sugar translocated in *Actinidia arguta* 'Hortgem Tahiti'. *Scientia Horticulturae*, 193, 261-268. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84938090893&partnerID=40&md5=7d475db956f0b56b5a6c526b908485d8>
- Anderson, W. R., Cruz, M. G., Fernandes, P. M., McCaw, L., Vega, J. A., Bradstock, R. A., Fogarty, L., Gould, J., McCarthy, G., Marsden-Smedley, J. B., Matthews, S., Mattingley, G., Pearce, H. G., & van Wilgen, B. W. (2015). A generic, empirical-based model for predicting rate of fire spread in shrublands. *International Journal of Wildland Fire*, 24(4), 443-460. <http://www.publish.csiro.au/paper/WF14130>
- Cameron, H., Champion, S. H., Singh, T., & Vaidya, A. A. (2015). Improved saccharification of steam-exploded *Pinus radiata* on supplementing crude extract of *Penicillium* sp. *3 Biotech*, 5(2), 221-225.
- Grigsby, W. J., Bridson, J. H., & Schrade, C. (2015). Modifying biodegradable plastics with additives based on condensed tannin esters. *Journal of Applied Polymer Science*, 132(11), <http://dx.doi.org/10.1002/app.41626>
- Mesic, B. B., Jarnstrom, L., & Johnston, J. (2015). Latex-based barrier dispersion coating on linerboard: Flexographic multilayering versus single step conventional coating technology. *Nordic Pulp & Paper Research Journal*, 30(2), 349-359.
- Rayees, S., Mabalirajan, U., Bhat, W. W., Rasool, S., Rather, R. A., Panda, L., Satti, N. K., Lattoo, S. K., Ghosh, B., & Singh, G. (2015). Therapeutic effects of R8, a semi-synthetic analogue of Vasicine, on murine model of allergic airway inflammation via STAT6 inhibition. *International Immunopharmacology*, 26(1), 246-256. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84927521883&partnerID=40&md5=92f2ddeb35b6f8936270fff213c4aa26>
- Wagner, A., Tobimatsu, Y., Phillips, L., Flint, H., Geddes, B., Lu, F., & Ralph, J. (2015). Syringyl lignin production in conifers: Proof of concept in a Pine tracheary element system. *Proceedings of the National Academy of Sciences of the United States of America*, 112(19), 6218-6223.
- Baillie, B. R., & Neary, D. G. (2015). Aquatic fate of aerially applied hexazinone and terbuthylazine in a New Zealand planted forest. *Journal of Sustainable Watershed Science and Management*, 2(1), 118-129.
- Li, Y., Xue, J., Clinton, P., & Dungey, H. (2015). Genetic parameters and clone by environment interactions for growth and foliar nutrient concentrations in radiata pine on 14 widely diverse New Zealand sites. *Tree Genetics & Genomes*, 11(1), 1-16. <http://dx.doi.org/10.1007/s11295-014-0830-1>
- McDowell, R., & Hill, S. J. (2015). Speciation and distribution of organic phosphorus in river sediments: a national survey. *Journal of Soils and Sediments*, 1-11. <http://dx.doi.org/10.1007/s11368-015-1125-3>
- Murphy, G., & Cown, D. (2015). Stand, stem and log segregation based on wood properties: a review. *Scandinavian Journal of Forest Research*, 1-14. <http://dx.doi.org/10.1080/02827581.2015.1055791>

- Noël, M., Grigsby, W. J., & Volkmer, T. (2015). Evaluating The Extent of Bio-Polyester Polymerization in Solid Wood by Thermogravimetric Analysis. *Journal of Wood Chemistry and Technology*, 35(5), 325-336. <http://dx.doi.org/10.1080/02773813.2014.962154>
- Stone, G., & Langer, E. R. (2015). Te ahi i te ao Maori - Māori use of fire: Traditional use of fire to inform current and future fire management in New Zealand. *MAI Journal - A New Zealand Journal of Indigenous Scholarship*, 4(1), 15-28.
- Wan, X., Huang, Z., He, Z., Yu, Z., Wang, M., Davis, M., & Yang, Y. (2015). Soil C:N ratio is the major determinant of soil microbial community structure in subtropical coniferous and broadleaf forest plantations. *Plant and Soil*, 387(1-2), 103-116. <http://dx.doi.org/10.1007/s11104-014-2277-4>
- Yang, Y., Uddstrom, M., Pearce, G., & Revell, M. (2015). Reformulation of the Drought Code in the Canadian Fire Weather Index System Implemented in New Zealand. *Journal of Applied Meteorology and Climatology*, 54(7), 1523-1537. <http://dx.doi.org/10.1175/JAMC-D-14-0090.1>
- Hale, S. A., Gardiner, B., Peace, A., Nicoll, B., Taylor, P., & Pizzirani, S. (2015). Comparison and validation of three versions of a forest wind risk model. *Environmental Modelling and Software*, 68, 27-41. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84923037655&partnerID=40&md5=fae61c57c6f761e2863caf2d5bc7f5f4>
- Mildner, M., Bader, M. K. F., Baumann, C., & Körner, C. (2015). Respiratory fluxes and fine root responses in mature *Picea abies* trees exposed to elevated atmospheric CO<sub>2</sub> concentrations. *Biogeochemistry*, 124(1-3), 95-111. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84923261242&partnerID=40&md5=0e7f39a3f8dc5d1a3a90798670f389ce>
- Noël, M., Grigsby, W., Vitkeviciute, I., & Volkmer, T. (2015). Modifying wood with bio-polyesters: Analysis and performance. *International Wood Products Journal*, 6(1), 14-20. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84923010260&partnerID=40&md5=59829d1368fd0325eac0bbdc1ae1837>
- Gous, S., Raal, P., & Watt, M. S. (2015). The evaluation of aerially applied triclopyr mixtures for the control of dense infestations of wilding *Pinus contorta* in New Zealand. *New Zealand Journal of Forestry Science*, 45(1). <http://www.scopus.com/inward/record.url?eid=2-s2.0-84923658789&partnerID=40&md5=3f6ead2aa3b268a5be241bd78d2956ad>
- Lu, F., Karlen, S. D., Regner, M., Kim, H., Ralph, S. A., Sun, R. C., Kuroda, K. I., Augustin, M. A., Mawson, R., Sabarez, H., Singh, T., Jimenez-Monteon, G., Zakaria, S., Hill, S., Harris, P. J., Boerjan, W., Wilkerson, C. G., Mansfield, S. D., & Ralph, J. (2015). Naturally *p*-hydroxybenzoylated lignins in palms. *Bioenergy Research*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84923684048&partnerID=40&md5=7e1cecc78e9f208b7200b40e52a1a676>
- Martinez-Hermosilla, G. A., Mesic, B. B., & Bronlund, J. E. (2015). A review of thermoplastic composites vapour permeability models: applicability for barrier dispersion coatings. *Packaging Technology and Science*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84924262092&partnerID=40&md5=96c6a044301c9675eeeab8574054373c>
- Yang, X., Liu, J., McGrouther, K., Huang, H., Lu, K., Guo, X., He, L., Lin, X., Che, L., Ye, Z., & Wang, H. (2015). Effect of biochar on the extractability of heavy metals (Cd, Cu, Pb, and Zn) and enzyme activity in soil. *Environmental Science and Pollution Research*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84924674326&partnerID=40&md5=86c1c51de4d5964ed7a37246a83895d3>
- Andrews, J., Dare, P., Estcourt, G., Gapes, D., Lei, R., McDonald, B., & Wijaya, N. (2015). Acetic acid recovery from a hybrid biological-hydrothermal treatment process of sewage sludge - A pilot plant study. *Water Science and Technology*, 71(5), 734-739. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84925261304&partnerID=40&md5=98f94f35a8781a44e023252335b4be46>
- Gous, S., Raal, P., Kimberley, M. O., & Watt, M. S. (2015). Chemical control of isolated invasive conifers using a novel aerial spot application method. *Weed Research*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84925067751&partnerID=40&md5=19e3ba55738d194bfa5470a27a98f689>
- Grigsby, W. J., Carpenter, J. E. P., Thumm, A., Sargent, R., & Hati, N. (2015). Labile extractable urea-formaldehyde resin components from medium-density fiberboard. *Forest Products Journal*, 65(1-2), 15-19. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84925355714&partnerID=40&md5=ff4dc85d406e87695e9b45c0cf5b9540>

- He, L., Gielen, G., Bolan, N. S., Zhang, X., Qin, H., Huang, H., & Wang, H. (2015). Contamination and remediation of phthalic acid esters in agricultural soils in China: a review. *Agronomy for Sustainable Development*, 35(2), 519-534. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84925811242&partnerID=40&md5=286c774a99dc374841bd560c208d7db8>
- Hunt, C., O'Dell, J., Jakes, J., Grigsby, W. J., & Frihart, C. R. (2015). Wood as polar size exclusion chromatography media: Implications to adhesive performance. *Forest Products Journal*, 65(1-2), 9-14. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84925349145&partnerID=40&md5=9beba6f5528a4ab6cfbc93ea5b0f017b>
- Dash, J. P., Marshall, H. M., & Rawley, B. (2015). Methods for estimating multivariate stand yields and errors using k-NN and aerial laser scanning. *Forestry*, 88(2), 237-247. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84926631555&partnerID=40&md5=3470f35eab51d360ecc625c195d50ca1>
- Jakes, J. E., Hunt, C. G., Yelle, D. J., Lorenz, L., Hirth, K., Gleber, S. C., Vogt, S., Grigsby, W., & Frihart, C. R. (2015). Synchrotron-based X-ray fluorescence microscopy in conjunction with nanoindentation to study molecular-scale interactions of phenol-formaldehyde in wood cell walls. *ACS Applied Materials and Interfaces*, 7(12), 6584-6589. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84926324309&partnerID=40&md5=32f3d52d33bb064f4a322c5fb6a479ab>
- Mao, X., Xu, X., Lu, K., Gielen, G., Luo, J., He, L., Donnison, A., Xu, Z., Xu, J., Yang, W., Song, Z., & Wang, H. (2015). Effect of 17 years of organic and inorganic fertilizer applications on soil phosphorus dynamics in a rice–wheat rotation cropping system in eastern China. *Journal of Soils and Sediments*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84928344730&partnerID=40&md5=6d2a7af372c22691286dda59cbdd4dc0>
- Moore, J. R., Cown, D. J., McKinley, R. B., & Sabatia, C. O. (2015). Effects of stand density and seedlot on three wood properties of young radiata pine grown at a dry-land site in New Zealand. *New Zealand Journal of Forestry Science*, 45(1). <http://www.scopus.com/inward/record.url?eid=2-s2.0-84928395515&partnerID=40&md5=e16eddbc6a9b8e263d5f8391a8adc08f>
- Waghorn, M. J., Whitehead, D., Watt, M. S., Mason, E. G., & Harrington, J. J. (2015). Growth, biomass, leaf area and water-use efficiency of juvenile *Pinus radiata* in response to water deficits. *New Zealand Journal of Forestry Science*, 45(1). <http://www.scopus.com/inward/record.url?eid=2-s2.0-84928319263&partnerID=40&md5=531999c1b53d5f645df35ae68b64daa0>
- Donaldson, L. A., Kroese, H. W., Hill, S. J., & Franich, R. A. (2015). Detection of wood cell wall porosity using small carbohydrate molecules and confocal fluorescence microscopy. *Journal of Microscopy*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84928538326&partnerID=40&md5=742d79ca5501e10bbe27e9473316e042>
- Goldson, S. L., Bourdôt, G. W., Brockerhoff, E. G., Byrom, A. E., Clout, M. N., McGlone, M. S., Nelson, W. A., Popay, A. J., Suckling, D. M., & Templeton, M. D. (2015). New Zealand pest management: Current and future challenges. *Journal of the Royal Society of New Zealand*, 45(1), 31-58. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84928584833&partnerID=40&md5=96cde001e1ee75e49db0faea3962d7f3>
- Park, K. C., Withers, T. M., & Suckling, D. M. (2015). Identification of olfactory receptor neurons in *Uraba lugens* (Lepidoptera: Nolidae) and its implications for host range. *Journal of Insect Physiology*, 78, 33-46. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84929008111&partnerID=40&md5=e4c94602bcc7d4bc4e653502d4e05f01>
- Tran, H., Harrington, K. C., Robertson, A. W., & Watt, M. S. (2015). Relative persistence of commonly used forestry herbicides for preventing the establishment of broom (*Cytisus scoparius*) seedlings in New Zealand plantations. *New Zealand Journal of Forestry Science*, 45(1). <http://www.scopus.com/inward/record.url?eid=2-s2.0-84928975609&partnerID=40&md5=c884565695dd1cefe6a85c6ef1151b89>
- Wu, M., Feng, Q., Sun, X., Wang, H., Gielen, G., & Wu, W. (2015). Rice (*Oryza sativa* L.) plantation affects the stability of biochar in paddy soil. *Scientific Reports*, 5. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84928914757&partnerID=40&md5=5fd56efa87a54da34305a022632f74d0>

- Saavedra, M. C., Avila, G. A., Withers, T. M., & Holwell, G. I. (2015). The potential global distribution of the Bronze bug *Thaumastocoris peregrinus* Carpintero and Dellapé (Hemiptera: Thaumastocoridae). *Agricultural and Forest Entomology*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84929448947&partnerID=40&md5=8deb5c4abccdda31723e7064aa9db2203>
- Watt, M. S., Rolando, C. A., Kimberley, M. O., & Coker, G. W. R. (2015). Using the age shift method to determine gains from weed management for *Pinus radiata* in New Zealand. *Weed Research*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84929223116&partnerID=40&md5=01d79fedfb94f598b81a5a82a24b0a5d>
- Baillie, B. R., & Neary, D. G. (2015). Water quality in New Zealand's planted forests: a review. *New Zealand Journal of Forestry Science*, 45:7. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930212618&partnerID=40&md5=e492d401abcfec16d027a43dd663a651>
- Gapare, W. J., Ivković, M., Liepe, K. J., Hamann, A., & Low, C. B. (2015). Drivers of genotype by environment interaction in radiata pine as indicated by multivariate regression trees. *Forest Ecology and Management*, 353, 21-29. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930014581&partnerID=40&md5=10ecbac5b74d3d7e9c00407261baf528>
- Moore, J. R., & Watt, M. S. (2015). Modelling the influence of predicted future climate change on the risk of wind damage within New Zealand's planted forests. *Global Change Biology*, 21(8), 3021-3035. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84929880322&partnerID=40&md5=9b48f52ea7ff4cbe96c284d108190d76>
- Bradshaw, R. E., Guo, Y., Sim, A. D., Kabir, M. S., Chettri, P., Ozturk, I. K., Hunziker, L., Ganley, R. J., & Cox, M. P. (2015). Genome-wide gene expression dynamics of the fungal pathogen *Dothistroma septosporum* throughout its infection cycle of the gymnosperm host *Pinus radiata*. *Molecular Plant Pathology*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930404213&partnerID=40&md5=75bbfad2c9ec923c1fb212548000903f>
- Mitrović, A., Donaldson, L. A., Djikanović, D., Pristov, J. B., Simonović, J., Mutavdžić, D., Kalauzi, A., Maksimović, V., Nanayakkara, B., & Radotić, K. (2015). Analysis of static bending-induced compression wood formation in juvenile *Picea omorika* (Pančić) Purkyně. *Trees - Structure and Function*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930535844&partnerID=40&md5=c6054c5ecb108c936f0830be79c3402c>
- Orwin, K. H., Stevenson, B. A., Smaill, S. J., Kirschbaum, M. U. F., Dickie, I. A., Clothier, B. E., Garrett, L. G., van der Weerden, T. J., Beare, M. H., Curtin, D., de Klein, C. A. M., Dodd, M. B., Gentile, R., Hedley, C., Mullan, B., Shepherd, M., Wakelin, S. A., Bell, N., Bowatte, S., Davis, M. R., Dominati, E., O'Callaghan, M., Parfitt, R. L., & Thomas, S. M. (2015). Effects of climate change on the delivery of soil-mediated ecosystem services within the primary sector in temperate ecosystems: A review and New Zealand case study. *Global Change Biology*, 21(8), 2844-2860. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930532140&partnerID=40&md5=f77a048f510176a4c0f289a1746a1402>
- Gordon, A. D., & Pont, D. (2015). Inventory estimates of stem volume using nine sampling methods in thinned *Pinus radiata* stands, New Zealand. *New Zealand Journal of Forestry Science*, 45:8. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930638768&partnerID=40&md5=4397008393e5eebb0a2fbf499fe697fa>
- Fraser, S., Martín-García, J., Perry, A., Kabir, M. S., Owen, T., Solla, A., Brown, A. V., Bulman, L. S., Barnes, I., Hale, M. D., Vasconcelos, M. W., Lewis, K. J., Doğmuş-Lehtijarvi, H. T., Markovskaja, S., Woodward, S., & Bradshaw, R. E. (2015). A review of Pinaceae resistance mechanisms against needle and shoot pathogens with a focus on the *Dothistroma-Pinus* interaction. *Forest Pathology*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930901945&partnerID=40&md5=785d514fe3ea9ee50bdc2e4cf70744f0>
- Hansen, E. M., Reeser, P., Sutton, W., Gardner, J., & Williams, N. (2015). First report of *Phytophthora pluvialis* causing needle loss and shoot dieback on Douglas-fir in Oregon and New Zealand. *Plant Disease*, 99(5), 727. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930635909&partnerID=40&md5=de265a0f08a2589c37807a36f3addae3>
- Kabir, M. S., Ganley, R. J., & Bradshaw, R. E. (2015). The hemibiotrophic lifestyle of the fungal pine pathogen *Dothistroma septosporum*. *Forest Pathology*, 45(3), 190-202. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84930797754&partnerID=40&md5=9611b27ac5c512601b4fe09f0c3dbbae>

- Marshall, C. W., Chagné, D., Deusch, O., Gruenheit, N., McCallum, J., Bergin, D., Lockhart, P. J., & Wilcox, P. L. (2015). A DNA-based diagnostic for differentiating among New Zealand endemic *Podocarpus*. *Tree Genetics and Genomes*, 11(4). <http://www.scopus.com/inward/record.url?eid=2-s2.0-84931273284&partnerID=40&md5=99467cb5eeea609a035aa23d7af5fff8>
- Ganley, R. J., Hargreaves, C. L., & Donaldson, L. A. (2015). Detection of asymptomatic fungal microorganisms in *Pinus radiata* tissue culture material. *New Zealand Journal of Forestry Science*, 45(1). <http://www.scopus.com/inward/record.url?eid=2-s2.0-84932620984&partnerID=40&md5=b3046b95ee42e04323c3a68106482e34>
- Herold, N., Grigsby, W. J., Franich, R. A., & Pfriem, A. (2015). Investigations of wood veneer during furfuryl alcohol modification using DMTA. *European Journal of Wood and Wood Products*. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84932168761&partnerID=40&md5=0a24b8e614f101943d83865fb0365cce>
- Sopow, S., Gresham, B., & Bain, J. (2015). Exotic longhorn beetles (Coleoptera: Cerambycidae) established in New Zealand. *New Zealand Entomologist*, 38(2)(107-125). <http://www.scopus.com/inward/record.url?eid=2-s2.0-84932096053&partnerID=40&md5=c10cfa87781f551c8aed25dde3ddecdf>
- Branco, M., Brockerhoff, E. G., Castagneyrol, B., Orazio, C., & Jactel, H. (2015). Host range expansion of native insects to exotic trees increases with area of introduction and the presence of congeneric native trees. *Journal of Applied Ecology*, 52(1), 69-77. <http://onlinelibrary.wiley.com/doi/10.1111/1365-2664.12362/abstract>
- Hood, I. A., Oliva, J., Kimberley, M. O., Arhipova, N., & Bakys, R. (2015). *Armillaria novae-zelandiae* and other basidiomycete wood decay fungi in New Zealand *Pinus radiata* thinning stumps. *Forest Pathology*. <http://onlinelibrary.wiley.com/doi/10.1111/efp.12171/abstract>
- Kabir, M. S., Ganley, R. J., & Bradshaw, R. E. (2015). Dothistromin toxin is a virulence factor in dothistroma needle blight of pines. *Plant Pathology*, 64(1), 225-234. <http://onlinelibrary.wiley.com/doi/10.1111/ppa.12229/abstract>
- Sopow, S. L., Bader, M. K. F., & Brockerhoff, E. G. (2015). Bark beetles attacking conifer seedlings: Picking on the weakest or feasting upon the fittest? , *Journal of Applied Ecology* 52(1), 220-227. <http://onlinelibrary.wiley.com/doi/10.1111/1365-2664.12368/abstract>
- Saavedra, M. C., Withers, T. M., & Holwell, G. I. (2015). Susceptibility of four *Eucalyptus* host species for the development of *Thaumastocoris peregrinus* Carpintero and Dellapé (Hemiptera: Thaumastocoridae). *Forest Ecology and Management*, 336, 210-216. <http://www.sciencedirect.com/science/article/pii/S0378112714006069>
- Kim, Y. S., Lee, K. H., Kim, J. S., & Singh, A. P. (2015). Lignin masks the presence of fibrillar network structure in the cell corner middle lamella (CCML). *Holzforschung*, 69(1), 121-126. <http://www.degruyter.com/view/j/hfsg.2015.69.issue-1/hf-2014-0032/hf-2014-0032.xml>
- Hell, J., Donaldson, L., Michlmayr, H., Kraler, M., Kneifel, W., Potthast, A., Rosenau, T., & Böhmdorfer, S. (2015). Effect of pretreatment on arabinoxylan distribution in wheat bran. *Carbohydrate Polymers*, 121, 18-26. <http://www.sciencedirect.com/science/article/pii/S0144861714011813>
- Garrett, L. G., Watt, M. S., Rolando, C. A., & Pearce, S. H. (2015). Environmental fate of terbuthylazine and hexazinone in a New Zealand planted forest Pumice soil. *Forest Ecology and Management*, 337, 67-76. <http://www.sciencedirect.com/science/article/pii/S0378112714006100>
- Baroutian, S., Smit, A. M., Andrews, J., Young, B., & Gapes, D. (2015). Hydrothermal degradation of organic matter in municipal sludge using non-catalytic wet oxidation. *Chemical Engineering Journal*, 260, 846-854. <http://www.sciencedirect.com/science/article/pii/S1385894714012595>