

Sustainability of bioenergy in Finland and globally – fact check. / Vakkilainen, Esa; Konttinen, Jukka; Orasuo, Varpu; Aalto, Pami.

27th European Biomass Conference and Exhibition, EUBCE 2019. ETA-Florence Renewable Energies, 2019. p. 1634-1635 (European Biomass Conference and Exhibition Proceedings).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Customer-oriented approach in cadastral procedures – Case study from Finland. / Sulonen, Kimmo; Riekkinen, Kirsikka; Kotilainen, Seija.

In: Land Use Policy, Vol. 90, 104209, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Controlled wettability of paperboard by nanoparticles using liquid flame spray process. / Stepien, Milena; Saarinen, Jarkko J.; Teisala, Hannu; Tuominen, Mikko; Aromaa, Mikko; Kuusipalo, Jurkka; Mäkelä, Jyrki; Toivakka, Martti.

International Conference on Nanotechnology for the Forest Products Industry 2010. 2010. p. 1390-1392.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Methane production from maize in Finland - Screening for different maize varieties and plant parts. / Seppälä, Mari; Pyykkönen, Ville; Laine, Antti; Rintala, Jukka.

In: Biomass & Bioenergy, Vol. 46, No. November, 11.2012, p. 282-290.

Research output: Contribution to journal › Article › Scientific › peer-review

Online quality evaluation of tissue paper structure on new generation tissue machines. / Raunio, Jukka-Pekka; Löyttyniemi, Tommi; Ritala, Risto.

In: Nordic Pulp and Paper Research Journal, Vol. 33, No. 1, 26.03.2018, p. 133-141.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluating the contrast of planar periodic patterns on paper. / Raunio, Jukka-Pekka; Makela, Ismo; Mäntylä, Markku; Ritala, Risto.

Paper Conference and Trade Show, PaperCon 2018. TAPPI Press, 2018. p. 294-302.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

How and why does willow biochar increase a clay soil water retention capacity? / Rasa, Kimmo; Heikkinen, Jaakko; Hannula, Markus; Arstila, Kai; Kulju, Sampo; Hyväluoma, Jari.

In: Biomass and Bioenergy, Vol. 119, 01.12.2018, p. 346-353.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of nutrient deprivations on lipid accumulation in a dominant indigenous microalga *Chlorella sp.*, BUM11008 : Evaluation for biodiesel production. / Praveenkumar, Ramasamy; Shameera, Kalifulla; Mahalakshmi, Gopalakrishnan; Akbarsha, Mohammad Abdulkader; Thajuddin, Nooruddin.

In: Biomass & Bioenergy, Vol. 37, 02.2012, p. 60-66.

Research output: Contribution to journal › Article › Scientific › peer-review

Data-based stochastic modeling of tree growth and structure formation. / Potapov, Ilya; Järvenpää, Marko; Åkerblom, Markku; Raunonen, Pasi; Kaasalainen, Mikko.

In: Silva Fennica, Vol. 50, No. 1, 1413, 2016.

Research output: Contribution to journal › Article › Scientific › peer-review

One-stage H₂ and CH₄ and two-stage H₂ + CH₄ production from grass silage and from solid and liquid fractions of NaOH pre-treated grass silage. / Pakarinen, O. M.; Tähti, H. P.; Rintala, J. A.

In: Biomass & Bioenergy, Vol. 33, No. 10, 10.2009, p. 1419-1427.

Research output: Contribution to journal › Article › Scientific › peer-review

The economics of renewable CaC₂ and C₂H₂ production from biomass and CaO. / Pääkkönen, A.; Tolvanen, H.; Kokko, L.

In: Biomass and Bioenergy, Vol. 120, 01.01.2019, p. 40-48.

Research output: Contribution to journal › Article › Scientific › peer-review

The role of base substrate on barrier and convertability properties of Water based barrier coated (WBBC) paper and paperboard. / Miettinen, P.; Ahokas, M.; Engström, T.; Heinonen, J.; Auvinen, S.
Paper Conference and Trade Show, PaperCon 2017: Renew, Rethink, Redefine the Future, Minneapolis, Minnesota, USA, 23-26 April 2017. Vol. 1 TAPPI Press, 2017. p. 220-232.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Classifying soil stoniness based on the excavator boom vibration data in mounding operations. / Melander, Lari; Ritala, Risto; Strandström, Markus.

In: *Silva Fennica*, Vol. 53, No. 2, 10068, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Fusion of open forest data and machine fieldbus data for performance analysis of forest machines. / Melander, Lari; Einola, Kalle; Ritala, Risto.

In: *EUROPEAN JOURNAL OF FOREST RESEARCH*, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Separating the impact of work environment and machine operation on harvester performance. / Melander, Lari; Ritala, Risto.

In: *EUROPEAN JOURNAL OF FOREST RESEARCH*, 2020.

Research output: Contribution to journal > Article > Scientific > peer-review

Estimating tree stem diameters and volume from smartphone photogrammetric point clouds. / Marzulli, Maria Immacolata; Raunonen, Pasi; Greco, Roberto; Persia, Manuela; Tartarino, Patrizia.

In: *FORESTRY*, Vol. 93, No. 3, 2020, p. 411-429.

Research output: Contribution to journal > Article > Scientific > peer-review

Screening boreal energy crops and crop residues for methane biofuel production. / Lehtomäki, A.; Viinikainen, T. A.; Rintala, J. A.

In: *Biomass & Bioenergy*, Vol. 32, No. 6, 06.2008, p. 541-550.

Research output: Contribution to journal > Article > Scientific > peer-review

Quantifying branch architecture of tropical trees using terrestrial LiDAR and 3D modelling. / Lau, Alvaro; Bentley, Lisa Patrick; Martius, Christopher; Shenkin, Alexander; Bartholomeus, Harm; Raunonen, Pasi; Malhi, Yadvinder; Jackson, Tobias; Herold, Martin.

In: *Trees - Structure and Function*, Vol. 32, No. 5, 10.2018, p. 1219-1231.

Research output: Contribution to journal > Article > Scientific > peer-review

Tree biomass equations from terrestrial LiDAR : A case study in Guyana. / Lau, Alvaro; Calders, Kim; Bartholomeus, Harm; Martius, Christopher; Raunonen, Pasi; Herold, Martin; Vicari, Matheus; Sukhdeo, Hansrajie; Singh, Jeremy; Goodman, Rosa C.

In: *Forests*, Vol. 10, No. 6, 527, 01.06.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Exposure to biological and chemical agents at biomass power plants. / Laitinen, Sirpa; Laitinen, Juha; Fagernäs, Leena; Korpijärvi, Kirsi; Korpinen, Leena; Ojanen, Kari; Aatamila, Marjaleena; Jumpponen, Mika; Koponen, Hanna; Jokiniemi, Jorma.

In: *Biomass & Bioenergy*, Vol. 93, 01.10.2016, p. 78-86.

Research output: Contribution to journal > Article > Scientific > peer-review

Planning land use for biogas energy crop production : The potential of cutaway peat production lands. / Laasasenaho, Kari; Lensu, Anssi; Rintala, Jukka.

In: *Biomass & Bioenergy*, Vol. 85, 01.02.2016, p. 355-362.

Research output: Contribution to journal > Article > Scientific > peer-review

Landowners' willingness to promote bioenergy production on wasteland – future impact on land use of cutaway peatlands. / Laasasenaho, Kari; Lensu, Anssi; Rintala, Jukka; Lauhanen, Risto.
In: Land Use Policy, Vol. 69, 01.12.2017, p. 167-175.
Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of wood volume estimates of young trees from terrestrial laser scan data. / Kunz, Matthias; Hess, Carsten; Raunonen, Pasi; Bienert, Anne; Hackenberg, Jan; Maas, Hans Gerd; Härdtle, Werner; Fichtner, Andreas; Von Oheimb, Goddert.
In: iForest - Biogeosciences and Forestry, Vol. 10, No. 2, 01.04.2017, p. 451-458.
Research output: Contribution to journal › Article › Scientific › peer-review

Terrestrial laser scanning for non-destructive estimates of liana stem biomass. / Krishna Moorthy, Sruthi M.; Raunonen, Pasi; Van den Bulcke, Jan; Calders, Kim; Verbeeck, Hans.
In: FOREST ECOLOGY AND MANAGEMENT, Vol. 456, 117751, 15.01.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Applicability of portable tools in assessing the bearing capacity of forest roads. / Kaakkurivaara, T.; Vuorimies, N.; Kolisoja, P.; Uusitalo, J.
In: Silva Fennica, Vol. 49, No. 2, 1239, 2015.
Research output: Contribution to journal › Article › Scientific › peer-review

Fly ash in forest road rehabilitation. / Kaakkurivaara, Tomi; Kolisoja, Pauli; Uusitalo, Jori; Vuorimies, Nuutti.
In: Croatian Journal of Forest Engineering, Vol. 37, No. 1, 2016, p. 119-130.
Research output: Contribution to journal › Article › Scientific › peer-review

How management intensity and neighborhood composition affect the structure of beech (*Fagus sylvatica* L.) trees. / Juchheim, Julia; Annighöfer, Peter; Ammer, Christian; Calders, Kim; Raunonen, Pasi; Seidel, Dominik.
In: TREES-STRUCTURE AND FUNCTION, Vol. 31, No. 5, 14.07.2017, p. 1723-1735.
Research output: Contribution to journal › Article › Scientific › peer-review

Finite element analysis of trees in the wind based on terrestrial laser scanning data. / Jackson, T.; Shenkin, A.; Wellpott, A.; Calders, K.; Origo, N.; Disney, M.; Burt, A.; Raunonen, P.; Gardiner, B.; Herold, M.; Fourcaud, T.; Malhi, Y.
In: Agricultural and Forest Meteorology, Vol. 265, 15.02.2019, p. 137-144.
Research output: Contribution to journal › Article › Scientific › peer-review

Fermentative metabolism of an anaerobic, thermophilic consortium on plant polymers and commercial paper samples. / Carver, Sarah M.; Nelson, Michael C.; Yu, Zhongtang; Tuovinen, Olli H.
In: Biomass & Bioenergy, Vol. 75, 01.04.2015, p. 11-22.
Research output: Contribution to journal › Article › Scientific › peer-review

High-speed manufacturing of antimicrobial paper. / Brobbey, Kofi J.; Haapanen, Janne; Gunell, Marianne; Mäkelä, Jyrki M.; Eerola, Erkki; Saarinen, Jarkko J.; Toivakka, Martti.
Paper Conference and Trade Show, PaperCon 2018. TAPPI Press, 2018. p. 564-566.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review