

LETTERS TO THE EDITOR

**On estimating tropical forest carbon dynamics in Papua New Guinea**

J. Bryan · J.B. Kirkpatrick · P.L. Shearman · J. Ash 213

**Forest canopy studies as an emerging field of science**

N.M. Nadkarni · G.G. Parker · M.D. Lowman 217

REVIEW PAPER

**Review of ground-based methods to measure the distribution of biomass in forest canopies**

D. Seidel · S. Fleck · C. Leuschner · T. Hammett 225

ORIGINAL PAPERS

**Pattern of genotype–environment interaction in *Picea glauca* (Moench) Voss in Alberta, Canada**

D.M. Rweyongeza 245

**Genetic variation of chemical and mechanical traits of maritime pine (*Pinus pinaster* Aiton). Correlations with wood density components**

M.J. Gaspar · A. Alves · J.L. Louzada · J. Morais ·

A. Santos · C. Fernandes · M.H. Almeida ·

J.C. Rodrigues 255

**Point process models for mixed sessile forest stands**

M.A. Ngo Bieng · C. Ginisty · F. Goreaud 267

**Climate response of tree-ring width in *Larix sibirica* growing in the drought-stressed forest-steppe ecotone of northern Mongolia**

Ch. Dulamsuren · M. Hauck · H.H. Leuschner ·

C. Leuschner 275

**Genetic variation in *Pinus taeda* wood properties predicted using non-destructive techniques**

F. Isik · C.R. Mora · L.R. Schimleck 283

**Nonlinear fixed and random generalized height–diameter models for Portuguese cork oak stands**

J.A. Paulo · J. Tomé · M. Tomé 295

**Modeling dominant height growth of maritime pine in Portugal using GADA methodology with parameters depending on soil and climate variables**

L. Nunes · M. Patrício · J. Tomé · M. Tomé 311

**Modelling the diameter distribution of eucalyptus plantations with Johnson's  $S_B$  probability density function: parameters recovery from a compatible system of equations to predict stand variables**

A. Mateus · M. Tomé 325

**Effects of shrub and canopy cover on the relative growth rate of *Pinus pinaster* Ait. seedlings of different sizes**

E. Rodríguez-García · C. Ordóñez · F. Bravo 337

**Synergistic use of very high-frequency radar and discrete-return lidar for estimating biomass in temperate hardwood and mixed forests**

A. Banskota · R.H. Wynne · P. Johnson · B. Emessiene 347

**The relative importance of dispersal limitation and habitat preference in shaping spatial distribution of saplings in a tropical moist forest: a case study along a combination of hydromorphic and canopy disturbance gradients**

G. Vincent · J.-F. Molino · L. Marescot · K. Barkaoui ·

D. Sabatier · V. Freycon · J.B. Roelens 357

**Effects of varying thinning regimes on carbon uptake, total stem wood growth, and timber production in Norway spruce (*Picea abies*) stands in southern Finland under the changing climate**

Z.-M. Ge · S. Kellomäki · H. Peltola · X. Zhou · K.-Y. Wang ·

H. Väisänen 371

**Estimating balanced structure areas in multi-species forests on the Sierra Madre Occidental, Mexico**

C. Wehenkel · J.J. Corral-Rivas · J.C. Hernández-Díaz · K. von Gadow 385

**Contribution of forest management artefacts to plant diversity at a forest scale**

M. Baltzinger · F. Archaux · M. Gosselin · R. Chevalier 395

**Characterization of mechanically perturbed young stems: can it be used for wood quality screening?**

L.A. Apiolaza · B. Butterfield · S.S. Chauhan · J.C.F. Walker 407

**Drought induces opposite changes in the concentration of non-structural carbohydrates of two evergreen *Nothofagus* species of differential drought resistance**

F.I. Piper 415

**Comparison of postfire mortality in endemic Corsican black pine (*Pinus nigra* ssp. *laricio*) and its direct competitor (*Pinus pinaster*)**

F. Pimont · R. Prodon · E. Rigolot 425

**Consequences of cutting off distal ends of cotyledons of *Quercus robur* acorns before sowing**

M.J. Giertych · J. Suszka 433

**Further articles** can be found at [www.springerlink.com](http://www.springerlink.com)

**Abstracted/Indexed** in BIOSIS, CAB Abstracts, CAB International, CSA, Current Abstracts, Current Contents/ Agriculture, Biology & Environmental Sciences, EBSCO, Environment Index, Geobase, Google Scholar, IBIDS, OCLC, ProQuest, Science Citation Index, Science Citation Index Expanded (SciSearch), SCOPUS, Summon by Serial Solutions, Zoological Record.

**Instructions for Authors** for *Annals of Forest Science* are available at [www.springer.com/13595](http://www.springer.com/13595).