ORIGINAL ARTICLES

Physical and mechanical properties of medium density fiber board (MDF) fabricated from banana plant (Musa sapientum) stem and midrib

Md.M. Rashid · A.K. Das · Md.I. Shams · S.K. Biswas 1

Optimization of thermally-compressed wood of *Trewia nudiflora* species using statistical Box–Behnken design and desirability function

Md.A. Islam · Md.A. Razzak · B. Ghosh 5

Influence of walnut shell as filler on mechanical and physical properties of MDF improved by nano-SiO₂

H. Khanjanzadeh · H. Pirayesh · S. Sepahvand 15

Utilization of *Bambusa bambos* (L.) and *Dendrocalamus strictus* (Roxb.) as an alternative to wooden dunnage pallets
S.K. Sharma · S.R. Shukla · A.K. Sethy 21

Assessment of variability in morphological and wood quality traits in *Melia dubia* Cav. for selection of superior trees

S. Chauhan · A.N. Arun Kumar 25

An application of principal component analysis method in wood defects identification

M.M. Tafarroi · H. Kalani · M. Moavenian · A. Ghanbarzadeh 33

Comparative analysis between a drying kiln designed with and without top baffles

B. Bedelean 39

Modeling beech (Fagus orientalis) particleboard properties based on resin content and board density

A.A. Enavati · F. Eslah 45

Physical and mechanical properties of flat pressed HDPE composite filled with a mixture of bagasse/rice husk

Z. Jahanilomer · S.R. Farrokhpayam 50

Bending properties and joint efficiency of some tropical hardwoods finger-jointed in green and dry states

M. Amoah · F.O. Kwarteng · P.K. Dadzie 57

Reliability of sonic tomography to detect agarwood in *Aquilaria microcarpa* Baill.

N. Indahsuary · D. Nandika · L. Karlinasari · E. Santoso 65

Efficacy of Erythropleum suaveolens (potrodom) and Distemonanthus benthamianus (bonsamdua) water extractives on the durability of five Ghanaian less used timber species of varying perviousness and retentiveness

A. Asamoah · K. Frimpong-Mensah · C. Antwi-Boasiako 72

Study on the effect of carbon nanotubes on plastic composite reinforced with natural fiber

P.K. Kushwaha · C.N. Pandev · R. Kumar 82

Ring width variations of Khasi pine (*Pinus kesiya* Royle ex Gordon) at breast height

B.R. Gogoi · M. Sharma · C.L. Sharma 87

Further articles can be found at link.springer.com

Indexed/abstracted in SCOPUS, Google Scholar, OCLC, SCImago, Summon by Serial Solutions

Instructions for Authors for *J Indian Acad Wood Sci* are available at http://www.springer.com/13196

Journal of the Indian Academy of Wood Science

Official Publication of the Indian Academy of Wood Science



2 Springer



cademy of Wood Science

Volume 11 · Number 1 · pp 1-