1. Record Nr. UNINA9910213251803321

Titolo	Vestnik Rossiskogo universiteta druzhby narodov Seriia:
Pubbl/distr/stampa	Moskva : , : Rossiski universitet druzhby narodov
ISSN	2408-8897
Descrizione fisica	1 online resource
Soggetti	Sociology Sociologie Periodicals.
Lingua di pubblicazione	Russo
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed

2. Record Nr. UNISA996213003803316

Titolo	Quinto sol : revista de historia regional
Pubbl/distr/stampa	Santa Rosa, La Pampa, Argentina, : Instituto de Historia Regional, Facultad de Ciencias Humanas, Universidad Nacional de La Pampa, Argentina, [1997]-
ISSN	1851-2879
Descrizione fisica	1 online resource
Soggetti	Rural conditions Histoire - Étude et enseignement History Periodicals. La Pampa (Argentina : Province) History Periodicals La Pampa (Argentina : Province) Rural conditions Periodicals Argentina La Pampa (Province) Amérique latine Histoire locale Périodiques Argentine Conditions sociales Périodiques Amérique latine Conditions sociales Périodiques

Lingua di pubblicazione	Spagnolo
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Title from cover.

3. Record Nr. UNINA9910298314203321

Titolo	The Biology of Reaction Wood / / edited by Barry Gardiner, John Barnett, Pekka Saranpää, Joseph Gril
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
ISBN	3-642-10814-8
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (281 p.)
Collana	Springer Series in Wood Science, , 1431-8563
Disciplina	582.16
Soggetti	Forest products Forestry Plant physiology Plant anatomy Plant development Trees Wood Science & Technology Plant Physiology Plant Anatomy/Development Tree Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Morphology, Anatomy and Ultrastructure of Reaction Wood -- Cell Wall Polymers in Reaction Wood -- The Molecular Mechanisms of Reaction Wood Induction -- Biomechanical Action and Biological Functions -- Physical and Mechanical Properties of Reaction Wood -- Detection and Grading of Compression Wood -- Effects of

Reaction Wood on the Performance of Wood and Wood-based Products -- Commercial Implications of Reaction Wood and the Influence of Forest Management.

Sommario/riassunto

The book is an essential reference source on reaction wood for wood scientists and technologists, plant biologists, silviculturists, forest ecologists, and anyone involved in the growing of trees and the processing of wood. It brings together our current understanding of all aspects of reaction wood, and is the first book to compare and discuss both compression wood and tension wood. Trees produce reaction wood to maintain the vertical orientation of their stems and the optimum angle of each branch. They achieve this by laying down fibre cell walls in which differences in physical and chemical structure from those of normal fibres are expressed as differential stresses across the stem or branch. This process, while of obvious value for the survival of the tree, causes serious problems for the utilisation of timber. Timber derived from trees containing significant amounts of reaction wood is subject to dimensional instability on drying, causing distortion and splitting. It is also difficult to work as timber, and for the pulp and paper industry the cost of removing the increased amount of lignin in compression wood is substantial. This has both practical and economic consequences for industry. Understanding the factors controlling reaction wood formation and its effect on wood structure is therefore fundamental to our understanding of the adaptation of trees to their environment and to the sustainable use of wood. The topics covered include: -Morphology, anatomy and ultrastructure of reaction wood - Cell-wall polymers in reaction wood and their biosynthesis -Changes in tree proteomes during reaction wood formation <-The biomechanical action and biological functions of reaction wood - Physical and mechanical properties of reaction wood from the scale of cell walls to planks -The detection and characterisation of compression wood - Effects of reaction wood on the performance of wood and wood-based products - Commercial implications of reaction wood and the influence of forest management on its formation.