**IAWA Bulletin New Series - Volume 12(2)**

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| **Author(s):** | Ken Ogata |
| **Title:** | **Wood Anatomy of Zabelia (Caprifoliaceae): Evidence for Generic Recognition** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 111-121 |
| **Keywords:** | Zabelia; wood anatomy; Caprifoliaceae; taxonomy |
| **Abstract:** | The wood anatomy of Zabelia is described based on stem and twig samples. Wood anatomy supports the recognition of Zabelia - often considered to be congeneric with Abelia- as a distinct genus, on the basis of type of perforations, vessel grouping and porosity. Zabelia is compared with other woody genera of the Caprifoliaceae using selected wood anatomical features (Table 2). The presence of aggregate rays is a very distinguishing feature of Zabelia not found in any other genus of the Caprifoliaceae. |
| **DOI:** | [10.1163/22941932-90001223](http://dx.doi.org/10.1163/22941932-90001223) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Achsenverdickung und Sproßanatomie bei Valerianaceae. H. Lörcher, 121 pp., illus., 1990. Tropische und Subtropische Pflanzenwelt. Franz Steiner Verlag, Stuttgart. Paperback. Price: DM 48.00.** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 122-122 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001224](http://dx.doi.org/10.1163/22941932-90001224) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Latest achievements in research of wood structure and physics. - Proceedings. A. Pozgaj (ed.), 380 pp., illus., 1991. Faculty of Wood Technology, University of Forestry and Wood Technology, 96053 Zvolen, Czechoslovakia (Available from Dr. Ing. J. Kudela). Paperback. Price: US$ 15.00.** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 122-122 |
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| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001225](http://dx.doi.org/10.1163/22941932-90001225) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Chemotaxonomie der Pflanzen. VoL 9. R. Hegnauer, xii + 786 pp., 1990. Birkhäuser, Basel. Hardback. Price: SFr. 580.00, DM 698.00.** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 122-122 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001226](http://dx.doi.org/10.1163/22941932-90001226) |

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| **Author(s):** | Veronica Angyallossy Alfonso; Hans Georg Richter |
| **Title:** | **Wood and Bark Anatomy of Buchenavia Eichl. (Combretaceae)1** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 123-141 |
| **Keywords:** | taxonomy; Combretaceae; bark anatomy; Terminalia; Buchenavia; Wood anatomy |
| **Abstract:** | Wood and bark structure of Buchenavia (Combretaceae) was studied for infrageneric variation and taxonomic utility. Despite its wide neotropical distribution Buchenavia has a homogeneous wood anatomy, axial parenchyma distribution being the most variable feature. The presence or absence of septate fibres and presence and location of silica grains in ray and/or axial parenchyma might eventually allow recognition of individual species or species groups. Bark anatomy offers no diagnostic features for species differentiation. Wood and bark structure of Buchenavia (15 species studied) intergrades fully with that of neotropical Terminalia (5 species studied), thus corroborating results of studies on morphology (Exell ' Stace 1963) and leaf anatomy (Stace, personal communication, 1989) which postulate a very close relationship between the two genera. |
| **DOI:** | [10.1163/22941932-90001227](http://dx.doi.org/10.1163/22941932-90001227) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Archaeological Wood - Properties, chemistry, and preservation. R.M. Rowell and R. J. Barbour (eds.), xiv + 472 pp., illus., 1990. Advances in Chemistry Series 225. American Chemical Soc., Washington, D.C. Hardback. Price: US$ 79.95.** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 142-142 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001228](http://dx.doi.org/10.1163/22941932-90001228) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Leaf structure of a Venezuelan cloud forest in relation to the microclimate. I. Roth, xi + 248 pp., illus., 1990. Handbuch der Pflanzenanatomie XIV, 1. Gebr. Borntraeger, Berlin, Stuttgart. Hardback. Price: DM 148.00.** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 142-142 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001229](http://dx.doi.org/10.1163/22941932-90001229) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Description anatomique de 20 espèces ligneuses croissant au Rwanda. S. Croptier and L.J. Kučera, 46 pp., incl. 20 plates, 1990. Inst. Sci. Agron. Rwanda (ISAR), Département de Foresterie, Butare, Rwanda and Department of Biology and Technology of Wood, Institute of Forestry and Wood Science, ETH, Zürich, Switzerland. Price unknown.** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 142-142 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001230](http://dx.doi.org/10.1163/22941932-90001230) |

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| **Author(s):** | H.-Dietmar Behnke |
| **Title:** | **Nondispersive Protein Bodies in Sieve Elements: A Survey and Review of their Origin, Distribution and Taxonomic Significance** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 143-175 |
| **Keywords:** | P-protein bodies; phloem; nuclear crystals; sieve elements |
| **Abstract:** | Nondispersive protein bodies present in the sieve elements in addition to dispersive P-protein are characteristic features of many woody dicotyledons; their origin may be nuclear or cytoplasmic. While nuclear nondispersive protein bodies are found in only two families, the Boraginaceae and Myristicaceae, bodies of cytoplasmic origin are present in 39 of the more than 350 families screened. These results were obtained from 228 dicotyledons studied with the electron microscope and data of additional species from the literature. The terminology, origin, form and distribution of nondispersive protein bodies are discussed. Their ultrastructural composition is described as being predominantly spindle-shaped, compound- spherical, rod-shaped and rosette-like. Based on the data accumulated from over 450 species (of about 3000 screened) it is evident that their taxonomic range is confined to a few dicotyledon superorders. Compound-spherical nondispersive protein bodies are characteristic of most of the Malvanae/Violanae; spindle-shaped forms are restricted to the Fabaceae (Rutanae). Rosanae-Proteanae-Myrtanae and the Magnolianae are the only other superorders that contain nondispersive protein bodies in several of their families. Evolutionary trends and possible taxonomic consequences implied in this distribution are discussed. |
| **DOI:** | [10.1163/22941932-90001231](http://dx.doi.org/10.1163/22941932-90001231) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **CSIRO Atlas of Hardwoods. J. Ilic, vi + 525 pp., including 65 colour plates ' 402 half-tone plates, 1991. Crawford House Press ' CSIRO. Available from CSIRO Bookshop, P.O. Box 89, Melbourne, Victoria 3002, Australia. Hardback. Price: Austr.$ 325.00 (US$ 298.00).** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 176-176 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001232](http://dx.doi.org/10.1163/22941932-90001232) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **The Conifer Manual. Volume I. H.J. Welch, vii + 436 pp., illus., 1990. Kluwer Academic Publishers, Dordrecht, The Netherlands. Hardback. Price: Dfl. 255.00, US$ 179.50.** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 176-176 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001233](http://dx.doi.org/10.1163/22941932-90001233) |

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| **Author(s):** | T. O. Siddiqi |
| **Title:** | **Impact of Seasonal Variation on the Structure and Activity of vascular Cambium in ficus Religiosa1** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 177-185 |
| **Keywords:** | seasonal variation; vascular cambium; Ficus religiosa |
| **Abstract:** | In Ficus religiosa (Moraceae) extension and radial growth occurs in late July and early August, respectively, under the local climate of Aligarh. The derivative tissue differentiates into xylem and phloem simultaneously in August. The phloem production stops late in August, restarts early October and then continues up to November. The xylogenesis continues up to November without interruption. Formation of the precursor phloem is observed in March. Cell size and the relative proportion of fusiform and ray initials vary with season. |
| **DOI:** | [10.1163/22941932-90001234](http://dx.doi.org/10.1163/22941932-90001234) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Wood Anatomy News** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 186-186 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001235](http://dx.doi.org/10.1163/22941932-90001235) |

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| **Author(s):** | Ian D. Gourlay; Peter J. Kanowski |
| **Title:** | **Marginal Parenchyma Bands and Crystalliferous Chains as Indicators of Age in African Acacia Species** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 187-194 |
| **Keywords:** | Acacia species; crystalliferous chains; marginal parenchyma |
| **Abstract:** | The radial cross sections of wood samples from individuals of known age in six African Acacia species were examined for growth rings, which were apparent in most species as narrow bands of marginal parenchyma filled with long crystal chains. The number of bands formed annually corresponded to the number of peaks in rainfall distribution. Samples from specimens of African Acacia species from the Oxford Forestry Institute's xylarium (FHOw) were also examined for similar crystalliferous chains, which were generally present. These results suggest that marginal parenchyma bands and crystalliferous chains define growth phases in African Acacia species, and may therefore be useful for age determination. |
| **DOI:** | [10.1163/22941932-90001236](http://dx.doi.org/10.1163/22941932-90001236) |

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| **Author(s):** | A.H. Paraskevopoulou |
| **Title:** | **Variation of Wood Structure and Properties of Cupressus Sempervirens Var. Horizontalis in Natural Populations in Greece** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 195-204 |
| **Keywords:** | specific gravity; wood quality; ring width; Cupressus sempervirens var. horizontalis Gord; genetic improvement; tracheid size |
| **Abstract:** | The variation of specific gravity, ring width, tracheid length and tracheid crosssectional dimensions was studied among the remote natural forests of Cupressus sempervirens var. horizontalis Gord. of the Greek islands Crete, Rhodes and Samos. |
| **DOI:** | [10.1163/22941932-90001237](http://dx.doi.org/10.1163/22941932-90001237) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Appendix** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 204-206 |
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| **Abstract:** |  |
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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Wood Anatomy News** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 206-206 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001239](http://dx.doi.org/10.1163/22941932-90001239) |

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| **Author(s):** | Simcha Lev-Yadun |
| **Title:** | **Terminology Used in Bark Anatomy: Additions and Comments** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 207-209 |
| **Keywords:** | phloem; phellogen; periderm; Bark |
| **Abstract:** | Some additions, modifications and deletions to the terminology used in bark anatomy are suggested. The anatomical and developmental basis for these suggestions is briefly described. |
| **DOI:** | [10.1163/22941932-90001240](http://dx.doi.org/10.1163/22941932-90001240) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Wood Anatomy News** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 210-211 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001241](http://dx.doi.org/10.1163/22941932-90001241) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Association Affairs** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 211-212 |
| **Keywords:** |  |
| **Abstract:** |  |
| **DOI:** | [10.1163/22941932-90001242](http://dx.doi.org/10.1163/22941932-90001242) |

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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Association Affairs** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 213-213 |
| **Keywords:** |  |
| **Abstract:** |  |
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| **Author(s):** | Editors IAWA Journal |
| **Title:** | **Iawa Bulletin** |
| **Source:** | IAWA Bulletin NS, Volume 12, Issue 2 |
| **Publication Year:** | 1991 |
| **Pages:** | 214-214 |
| **Keywords:** |  |
| **Abstract:** |  |
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