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PUBLICATIONS LIST

RELEVANT PAPERS

1. Dinulică F, Albu CT, Vasilescu MM, Stanciu MD (2019). *Bark features for identifying resonance spruce standing timber*. Forests 10(9):799.
2. Dinulică F, Marcu V, Borz SA, Vasilescu MM, Petrișan IC (2016). *Wind contribution to yearly silver fir (Abies alba Mill.) compression wood development in the Romanian Carpathians*. iForest 9(6), 927-936.
3. Dinulică F, Hălălișan AF, Scriba C (2012). *Chromatic individuality of fir (Abies alba Mill.) compression wood*. Bulletin of the Transilvania University of Brasov, Series II - Forestry, Wood Industry, Agricultural Food Engineering 5 (54), 49-56.
4. Dinulică F, Borz SA, Hălălișan AF (2012). *Building a chronology from compression wood yearly records: some methodological coordinates*. Bulletin of the Transilvania University of Brasov, Series II - Forestry, Wood Industry, Agricultural Food Engineering 5 (54), 21-28.
5. Dinulică F, Albu C-T, Zdrob GS (2015). *Ce știm și cât știm cu privire la determinismul molidului de rezonanță?* Revista pădurilor 130(5-6), 23-40.
6. Albu CT, Dinulică F, Bartha S, Vasilescu MM, Tereșneu CC, Vlad IA (2020). *Musical instrument lumber recovery from Romanian resonance spruces*. Bioresources 15(1), 967-986.
7. Vlad IA, Goji G, Dinulică F, Bartha S, Vasilescu MM, Mihăiescu T (2019). *Consuming blackberry as a traditional nutraceutical resource from an area with high anthropogenic impact*. Forests 10(3): 246.
8. Silvestru-Grigore CV, Dinulică F, Spârchez G, Hălălișan AF, Dincă LC, Enescu RE, Crișan VE (2018). *Radial growth behavior of pines on Romanian degraded lands*. Forests 9(4): 213.
9. Stanciu MD, Coșoreanu C, Dinulică F, Bucur V (2020). *Effect of wood species on vibration modes of violins plates*. European Journal of Wood and Wood Products 78, 785-799.
10. Ostafi M, Dinulică F, Nicolescu NV (2016). *Physical properties and structural features of common walnut (Juglans regia L.) wood: A case study*. Die Bodenkultur: Journal of Land Management, Food and Environment 67(2), 105-120.

PHD THESIS

Dinulică F (2008). Research on the influencing factors on silver fir compression wood formation. PhD Thesis. Transilvania University of Brașov, 236 p (coordinated by Prof. dr. eng. Eugen Beldeanu).

BOOKS / BOOK CHAPTERS

1. Dinulică F (2012). *Lemnul de compresiune la brad*. Ceres Publishing House, Bucharest, 296 p. / ISBN 978-973-40-0981-7.
2. Hălălișan AF, Dinulică F (2016). *Certificarea managementului forestier și a produselor forestiere în România*. Transilvania University Publishing House, Brașov, 160 p. ISBN: 978-606-19-0735-9.
3. Silvestru-Grigore CV, Dinulică F, Spârchez G, Hălălișan AF, Dincă LC, Enescu RE, Crișan VE (2019). Radial growth behavior of pines on Romanian degraded lands. In: Picchio R and Mercurio R (eds.): *Ecological management of pine forests*. . MDPI, Basel, pp. 191-211 / ISBN 978-3-03897-426-0.
4. Dinulică F (2020). *Lemnul de rezonanță din Carpați. O introducere în acustica arborilor pentru sunet*. Transilvania University Publishing House, 136 p. / ISBN 978-606-19-1278-0.

WEB OF SCIENCE ARTICLES

1. Borz SA, Dinulică F, Bîrda M, Ignea G, Ciobanu DV, Popa B (2013). Time consumption and productivity of skidding Silver fir (*Abies alba* Mill.) round wood in reduced accessibility conditions: a case study in windthrow salvage logging form Romanian Carpathians. *Annals of Forest Research* 56(2), 363-375. WOS:000332132200009
2. Dinulică F, Albu C, Borz SA, Vasilescu MM, Petrișan C (2015). Specific structural indexes for resonance Norway spruce wood used for violin manufacturing. *Bioresources*. 10(4), 7525-7543. WOS:000366990800096
3. Mușat E., Salcă EA, Dinulică F, Ciobanu VD, Dumitrașcu AE (2016). Evaluation of color variability of oak veneers for sorting. *Bioresources* 11(1), 573-584. WOS:000367732700047
4. Dinulică F, Marcu V, Borz SA, Vasilescu MM, Petrișan IC (2016). Wind contribution to yearly silver fir (*Abies alba* Mill.) compression wood development in the Romanian Carpathians. *iForest* 9(6), 927-936. WOS:000391850300011
5. Vasilescu MM, Tereșneu CT, Dinulică F (2017). A rapid method for estimating the median diameter of the stem profile of Norway spruce (*Picea abies* Karst) trees. *iForest* 10, 328-333. WOS:000395862000045
6. Vasilescu MM, Tereșneu CC, Dinulică F, Borz SA, Popa B (2017). A new stem volume equation for Norway spruce (*Picea abies* (L.) Karst) trees in Romania. *Baltic Forestry* 23 (3): 626-635. WOS:000429718300011
7. Dincă L, Holonec L, Socaciu C, Dinulică F, Constandache C, Blaga T, Peticilă A (2018). *Hippophae salicifolia* D. Don: A miraculous species less known in Europe. *Notulae Botanicae Horti Agrobotanici* 46(2): 474-483. WOS:000429148700023
8. Silvestru-Grigore CV, Dinulică F, Spârchez G, Hălălișan AF, Dincă LC, Enescu RE, Crișan VE (2018). Radial growth behavior of pines on Romanian degraded lands. *Forests* 9(4): 213. WOS:000434856800057
9. Vlad IA, Goji G, Dinulică F, Bartha S, Vasilescu MM, Mihăiescu T (2019). Consuming blackberry as a traditional nutraceutical resource from an area with high anthropogenic impact. *Forests* 10(3): 246. DOI: 10.3390/f10030246

10. Dinulică F, Albu CT, Vasilescu MM, Stanciu MD (2019). Bark features for identifying resonance spruce standing timber. *Forests* 10(9):799. DOI: 10.3390/f10090799
11. Albu CT, Dinulică F, Bartha S, Vasilescu MM, Tereşneu CC, Vlad IA (2020). Musical instrument lumber recovery from Romanian resonance spruces. *Bioresources* 15(1), 967-986. CCC: 000511129100069
12. Bartha S, Tăut I, Goji G, Vlad IA, Dinulică F (2020). Heavy metal content in polyfloral honey and potential health risk. A case study of Copşa Mică, Romania. *International Journal of Environmental Research and Public Health* 17(5): 1507. DOI: 10.3390/ijerph17051507
13. Stanciu MD, Coşoreanu C, Dinulică F, Bucur V (2020). *Effect of wood species on vibration modes of violins plates*. *European Journal of Wood and Wood Products* 78, 785–799. DOI: 10.1007/s00107-020-01538-5

PAPERS IN INTERNATIONAL CONFERENCES

1. Dinulică F (2005). On the silver fir compression wood. Proceedings of the international conference „*Forest and Sustainable Development*” Brasov, Romania, pp. 317-322. BDI: Google Scholar
2. Ioraş F, Ciobanu V, Florescu M, Dinulică F, Horvath, B (2007). Modern techniques in forest fires extinguishment. Proceedings of the international conference „*Forest and Sustainable Development*” Brasov, 27-28 octombrie 2006, pp. 541-544. BDI: CABI
3. Dinulică F (2007). Compression wood: a major fault of softwood timber. Proceedings of the international conference „*Forest and Sustainable Development*” Brasov, 27-28 octombrie 2006, pp. 445-450. BDI: CABI
4. Gliga VG, Stanciu MD, Nastac S-M, Dinulică F, Câmpean M (2019). Study concerning the natural frequency and damping factor of the top and back plate for different types of violins. International conference "*Wood Science and Engineering in the Third Millennium*", Brasov, România, 7-9. 11. 2019. *PRO Ligno* 15(4), 67-74. BDI: Scopus

BDI ARTICLES

1. Dinulică F, Leandru L (2006). On the geographic variability of the fir wood quality (*Abies alba* Mill.): preliminary research. *Revista pădurilor* 121(3), 13-19. BDI: CABI
2. Bolea V, Chira D, Edydt TO, Gancz V, Iacoban C, Dinulică F, Pepelea D, Mantale C (2006). Valorificarea diagnozei foliare. *Analele Institutul de Cercetari si Amenajari Silvice* 49, 79-96. BDI: Google Scholar.
3. Dinulică F (2009). Annual fluctuations in the formation of compression wood in Silver fir trees. *Revista pădurilor* 124 (2), 15-22. BDI: CABI
4. Dinulică F (2009). Particularităţi ecologice în formarea lemnului de compresiune la brad. I: Influenţa înclinării versantului. *Revista pădurilor* 124 (3), 47-56. BDI: Google Scholar
5. Bartha S, Dinulică F, Dorog LS (2011). Research on the size and frequency variability of some standing timbers' defects under influence of their biological origin. *Natural Resources and Sustainable Development* 1, 21-28. BDI: CABI

6. Goji G, Bartha S, **Dinulică F** (2011). Distribution of some heavy metals in different health promoting and economically important species around Copsa Mica City. *Analele Universității din Oradea, Fascicula: Protecția Mediului* 17, 655-662. BDI: CABI
7. Goji G, Bartha S, **Dinulică F** (2011). Heavy metals contamination level of black locust flowers. *Analele Universității din Oradea, Fascicula: Protecția Mediului* 17, 245-252. BDI: CABI
8. Mihăiescu T, Goji G, **Dinulică F** (2011). Bioaccumulation of cadmium and zinc in the fruits of some forestry species of sanogenic and economical importance from the area of Copsa Mica. *Bulletin of the Transilvania University of Brasov, Series II - Forestry, Wood Industry, Agricultural Food Engineering* 53, 59-64. BDI: Google Scholar
9. Goji G, **Dinulică F** (2011). Distribution of some heavy metals in different hawthorn organs. *Bulletin of the Transilvania University of Brasov, Series II - Forestry, Wood Industry, Agricultural Food Engineering* 53(2), 47-52. BDI: Google Scholar
10. **Dinulică F**, Hălălișan AF, Scriba C (2012). Chromatic individuality of fir (*Abies alba* Mill.) compression wood. *Bulletin of the Transilvania University of Brasov, Series II - Forestry, Wood Industry, Agricultural Food Engineering* 54(1), 49-56. BDI: Google Scholar
11. **Dinulică F**, Borz SA, Hălălișan AF (2012). Building a chronology from compression wood yearly records: some methodological coordinates. *Bulletin of the Transilvania University of Brasov, Series II - Forestry, Wood Industry, Agricultural Food Engineering* 54(2), 21-28. BDI: Google Scholar
12. Borz SA, Ignea G, Oprea I, Ciobanu V, **Dinulică F** (2013). A comparison in terms of carbon emissions, cost and productivity of the most used technologies in the young thinned stands—the case of Romania. *Romanian Journal of Economics* 36(1), 136-148. BDI: Google Scholar
13. **Dinulică F**, Borz SA (2013). Ecological variability of L-ascorbic acid in *Primula taxa* from Postăvaru Mountain. *Bulletin of the Transilvania University of Brasov, Series II - Forestry, Wood Industry, Agricultural Food Engineering* 55(2), 15-22. BDI: Google Scholar
14. Albu C-T, **Dinulică F** (2014). The woodcutting output of the resonance spruce for semi-products of musical instruments. *Revista pădurilor* 129 (3-4), 14-24. BDI: CABI
15. **Dinulică F**, Grigore CVS, Spârchez G (2015). 80 years of ecological restoration on degraded lands from Subcarpații Buzăului region. Time series of radial growth structure. *Revista pădurilor* 130 (3-4), 19-36. BDI: CABI
16. **Dinulică F**, Albu C-T, Zdrob GS (2015). What and how much do we know about the determinism of resonance in Norway spruce? *Revista pădurilor* 130(5-6), 23-40. BDI: CABI
17. Ostafi M, **Dinulică F**, Nicolescu NV (2016). Physical properties and structural features of common walnut (*Juglans regia* L.) wood: A case study. *Die Bodenkultur: Journal of Land Management, Food and Environment* 67(2), 105-120. BDI: Google Scholar
18. Băluț M, **Dinulică F**, Medrea I, Petrițan AM, Petrițan CI (2016). A powerful and promising tool used in the tree ring measurements. *Revista de Silvicultură și Cinegetică* 38, 27-30. BDI: CABI
19. Silvestru-Grigore CV, Spârchez G., **Dinulică F** (2016). Starea de sănătate a arboretelor de pin instalate pe terenuri degradate din Subcarpații Buzăului. *Revista pădurilor* 131 (3-4), 7-18. BDI: Google Scholar
20. Oaida I, **Dinulică F** (2017). Quality of wild cherry standing timber in forests of Barzava Forest District (Arad county). *Revista pădurilor* 132(2), 22-30. BDI: CABI

21. Toma BI, Dinulică F (2017). Truffle potential in the forests of Târnavelor Hills. Revista pădurilor 132(3), 13-24. BDI: CABI
22. Hălălișan AF, Chira D, Dinulică F (2018). Amanita muscaria (L.) Lam.: biology, ecology, toxicology and ethnomycology. Revista pădurilor 133(1), 3-18. BDI: CABI

OTHER PAPERS / RELEVANT ACHIEVEMENTS

1. Dinulică F, Petrișan C, Pană AM (2002). Behaviour of silver fir in the Paltinu – Săcele provenances trial to the attack by *Melampsorella cerastii* and *Armillaria mellea*. Revista de Silvicultură și Cinegetică 7(15-16), 70-74.
2. Dinulică F (2002). Studiu comparativ asupra structurii lemnului tânăr de brad. Proceedings of the national conference „Forest and future”, Brașov, 8 November 2002, pp.377-380.
3. Dinulică F (2005). Cercetări privind structura lemnului de compresiune la brad. Proceedings of the national conference „Research and development in wood science”, Bucharest, pp.34-38.
4. Dinulică F (2006). Interacțiunea genotip x mediu în manifestarea înfurcării la brad. Analele Universității din Oradea: Fascicula Silvicultură. University of Oradea Publishing House 11, 121-127.
5. Dinulică F (2006). Cu privire la standardizarea calității lemnului rotund. Meridiane Forestiere 7(1), 14-15.
6. Dinulică F (2006). Observații asupra gelivurii la brad, în brădeto-făgetele de pe Valea Troainer (Brașov). Proceedings of the national conference of ecosanogenesis, Brașov, 26-27 May 2006, pp. 280-282.
7. Dinulică F (2007). Estimarea calității lemnului pe picior: metode de teren și laborator. Guidelines. Project PN-II-RU-TD-2001-1, 48 p.
8. Dinulică F (2009). Constituirea probelor statistice în vederea estimării potențialului calitativ al resurselor forestiere nelemnoase: indicații metodologice. Guidelines. Project BIOFOREPRO, 8 p.
9. Dinulică F, Hălălișan AF (2014). Stages in reporting CO2 emissions in compliance with the AFOLU. Report. Project no 3266/16.10.2014, 7 p.
10. Dinulică F (2018). Produse forestiere: Course. Centre for Distance Learning and Part-time Studies, Transilvania University of Brașov, 138 p.

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