Universitatea Transilvania din Brașov
Domeniul Inginerie Forestieră

Lista de lucrări publicate

A. Lucrări în reviste cotate ISI

2025

1) **Stanciu, M.D.;** Timar, M.C.; Mihalcica, M.; Cosnita, M.; Dinulică, F. Comparisons of the Effects of Polymer and Alcohol Varnishes on Norway Spruce Wood Surface Modifications. *Polymers* 2025, *17*, 2131. https://doi.org/10.3390/polym17152131
2) **Stanciu, M.D**.; Guiman, M.V.; Năstac, S.M. (2025e) New Challenges in Assessment of the Acoustic Properties of Coating Polymers. Polymers 2025, 17, 1418. https://doi.org/10.3390/polym17101418
3) Boggiano, Ana G. Trocones; Gurau, L., Porojan, M.; **Stanciu, M.D**. Identification of the juvenile wood transition age and of some growth characteristics in plantation vs. Native populations of Cuban Pinus caribaea M. Var. Caribaea B&G, BioResources, 2025, Vol 20, Issue 3, p6242. https://ojs.bioresources.com/index.php/BRJ/article/view/24606

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4) **Stanciu M.D.,** Teodorescu HD., Vlase S., Mihalcica M., Cosnită M.,Savin A, Multiscale assessment of artificial aging treatment of polysaccharides from tonewood species, Int. J. Biol. Macromol., Volume 274, Part 1, 2024, 133310, https://doi.org/10.1016/j.ijbiomac.2024.133310. https://www.sciencedirect.com/science/article/pii/S0141813024041151
5) **Stanciu, M.D.;** Cosnita, M.; Gliga, G.V.; Gurau, L.; Timar, C.M.; Guiman, M.V.; Năstac, S.M.; Roșca, I.C.; Bucur, V.; Dinulică, F. Tunable Acoustic Properties Using Different Coating Systems on Resonance Spruce Wood. Adv. Mat. Interfaces 2024, 1, 2300781, https://onlinelibrary.wiley.com/doi/10.1002/admi.202300781
6) Faktorová, D.; **Stanciu, M.D**. (**autor correspondent**); Krbata, M.; Savin, A.; Kohutiar, M.; Chlada, M.; Năstac, S.M. Analysis of the Anisotropy of Sound Propagation Velocity in Thin Wooden Plates Using Lamb Waves. *Polymers* 2024, *16*, 753. https://doi.org/10.3390/polym16060753

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1) Gurău, L.; Timar, M.C.; Coșereanu, C.; Cosnita, M.; **Stanciu, M.D. (autor corespondent),** Aging of Wood for Musical Instruments: Analysis of Changes in Color, Surface Morphology, Chemical, and Physical-Acoustical Properties during UV and Thermal Exposure. Polymers 2023, 15, 1794. https://doi.org/10.3390/polym15071794
2) Dinulica, F.; Savin, A**.; Stanciu, M.D.** Physical and Acoustical Properties of Wavy Grain Sycamore Maple (Acer pseudoplatanus L.) Used for Musical Instruments. Forests 2023, 14, 197. https://www.mdpi.com/1999-4907/14/2/197.
3) Guiman, M.V.; **Stanciu, M.D.;** Roșca, I.C.; Georgescu, S.V.; Năstac, S.M.; Câmpean, M. Influence of the Grain Orientation of Wood upon Its Sound Absorption Properties. Materials 16, 5998 (2023) https://www.mdpi.com/1996-1944/16/17/5998.

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4) **Stanciu M.D.;** Roșca I.C. Mihălcică M., Bucur V. Dynamic response of wooden plates in different stages of guitar manufacturing. European Journal Of Wood And Wood Products 2022, 80 (4), 997-1013, 10.1007/s00107-022-01817-3. https://link.springer.com/article/10.1007/s00107-022-01817-3
5) **Stanciu, M.D.;** Cosnita, M.; Cretu, C.N.; Teodorescu, H.D.; Trandafir, M. Mechanical and Acoustic Properties of Alloys Used for Musical Instruments. Materials 2022, 15, 5192. https://www.mdpi.com/1996-1944/15/15/5192
6) **Stanciu, M.D.;** Nastac, S.M.; Bucur, V.; Trandafir, M.; Dron, G.; Nauncef, A.M. Dynamic Analysis of the Musical Triangles—Experimental and Numerical Approaches. Appl. Sci. 2022, 12, 6275. https://www.mdpi.com/2076-3417/12/12/6275
7) **Stanciu M.D.;** Dinulica, F.; Bucur, V.; Gliga, G.V.; Nastac, S.M.; Campean, M. Changing the vibrational behavior of the wooden thin arched plates – the maestro violins experimental study case. Thin-Walled Structures. 2022, 109042. https://www.sciencedirect.com/science/article/pii/S0263823122000842
8) **Stanciu M.D.,** Năstac S.M., Teșulă I. Prediction of the Damage Effect on Fiberglass-Reinforced Polymer Matrix Composites for Wind Turbine Blades, Polymers, 2022, 14(7), 10.3390/polym14071471, WOS:000781582400001, https://www.mdpi.com/2073-4360/14/7/1471
9) Crețu, N., Roșca, I.C., **Stanciu, M.D.** (autor correspondent),, Gliga V.Gh., Cerbu C. Evaluation of Wave Velocity in Orthotropic Media Based on Intrinsic Transfer Matrix. Exp Mech 62, 1595–1602 (2022) https://link.springer.com/article/10.1007/s11340-022-00889-9.

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10) Mihalcică M**., Stanciu M.D** (autor correspondent), Năstac S.M., Dinulica F., Nauncef A.M., Roșca I.C., Savin A., Signature Modes of Old and New Violins with Symmetric Anatomical Wood Structure, Appl. Sci. 2021, 11(23), 11297. https://www.mdpi.com/2076-3417/11/23/11297
11) Sova D., **Stanciu M.D.** (autor correspondent),, Georgescu S.V., Design of Thermal Insulation Materials with Different Geometries of Channels, Polymers, 2021 13(13), 2217. https://www.mdpi.com/2073-4360/13/13/2217
12) Dinulica F., **Stanciu M.D.** (autor correspondent),, Savin A. Correlation between Anatomical Grading and Acoustic-Elastic Properties of Resonant Spruce Wood Used for Musical Instruments, Forests, 2021, 12(8), 1122, https://www.mdpi.com/1999-4907/12/8/1122
13) **Stanciu, M.D.;** Mihălcică, M.; Dinulică, F.; Nauncef, A.M.; Purdoiu, R.; Lăcătuș, R.; Gliga, G.V. X-ray Imaging and Computed Tomography for the Identification of Geometry and Construction Elements in the Structure of Old Violins. Materials 2021, 14, 5926. https://www.mdpi.com/1996-1944/14/20/5926
14) **Stanciu M.D.,** Teodorescu Draghicescu H., Rosca I.C., Mechanical Properties of GFRPs Exposed to Tensile, Compression and Tensile-Tensile Cyclic Tests, Polymers, 2021 13(6), 898, doi 10.3390/polym13060898. https://www.mdpi.com/2073-4360/13/6/898

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15) Mihalcica M., **Stanciu MD** (autor correspondent), Vlase S, Frequency Response Evaluation of Guitar Bodies with Different Bracing Systems, Symmetry, 2020, 12, 795; doi:10.3390/sym12050795. https://www.mdpi.com/2073-8994/12/5/795
16) **Stanciu M.D.,** Cosereanu C., Dinulica F., Bucur V., Effect of wood species on vibration modes of violins plates. Eur. J. Wood Prod. (2020) vol 78, pp. 785-799, https://doi.org/10.1007/s00107-020-01538-5.

17) **Stanciu M.D.,** Teodorescu D. H., Tămaș F., Terciu O.M. Mechanical and Rheological Behaviour of Composites Reinforced with Natural Fibres, Polymers 2020, 12 (6), 1402; doi:10.3390/polym12061402. https://www.mdpi.com/2073-4360/12/6/1402
18) **Stanciu M.D.,** Șova D., Savin A., Iliaș N., Gorbacheva Galina, Physical and Mechanical Properties of Ammonia- Treated Black Locust Wood, Polymers 2020, 12, 377; doi:10.3390/polym12020377. https://www.mdpi.com/2073-4360/12/2/377
19) **Stanciu M.D.,** Teodorescu Draghicescu H., Vlase S, Degradation of Mechanical Properties of Pine Wood Under Symmetric Axial Cyclic Loading Parallel to Grain, Polymers, 2020, 12(10), 2176 DOI10.3390/polym12102176. https://www.mdpi.com/2073-4360/12/10/2176

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20) Plescan C, **Stanciu MD (autor correspondent)**, Szasz M. The Effect of Internal Pressure on Radial Strain of Steel Pipe Subjected to Monotonic and Cyclic Loading, Materials 2019, 12, 2849. https://www.mdpi.com/1996-1944/12/18/2849
21) **Stanciu M.D.,** Vlase S., Marin M., Vibration Analysis of a Guitar considered as a Symmetrical Mechanical System, Symmetry 2019, 11(6), 727 https://doi.org/10.3390/sym11060727.
22) Stanciu, Mariana Domnica, Bucur, Voichița, Munteanu, Violeta Mihaela, Georgescu, Sergiu Valeriu and Năstac, Silviu Marian. "Moisture-induced deformation in the neck of a classical guitar" *Holzforschung*, vol. 73, no. 4, 2019, pp. 371-379. https://doi.org/10.1515/hf-2018-0021

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23) **Stanciu M.D.,** Savin A., Nastac S.M, (2018) Mechanical and surface properties of lignocellulosic fibres reinforced composites, in Strojniški vestnik - Journal of Mechanical Engineering 64 (2018) 11, 698-705. https://www.sv-jme.eu/article/mechanical-and-surface-properties-of-lignocellulosic-fibres-reinforced-composites/
24) **Stanciu M.D,** Bucur V., Valcea C. S., Savin A., Sturm R., (2018) Oak particles size effects on viscous-elastic properties of wood polyester resin composite submitted to ultraviolet radiation, Wood Sci Technol 52 (2): 365-382 (2018). https://link.springer.com/article/10.1007/s00226-017-0971-0

B. Lucrări în reviste cotate BDI

1. **Stanciu, M.D**. (2025). Multiscale Assessment of Strings Musical Instruments. In: Moldovan, L., Gligor, A. (eds) The 18th International Conference Interdisciplinarity in Engineering. Inter-Eng 2024. Lecture Notes in Networks and Systems, vol 1250. Springer, Cham. https://doi.org/10.1007/978-3-031-81378-8_5.
2. **Stanciu, M.D.,** Nauncef, A.M., Năstac, S.M., Amariei, N. (2025). Analysis of Signal Amplitude of Violins with Modified Physical Parameters. In: Auer, M.E., Rüütmann, T. (eds) Futureproofing Engineering Education for Global Responsibility. ICL 2024. Lecture Notes in Networks and Systems, vol 1281. Springer, Cham. https://doi.org/10.1007/978-3-031-83520-9_59

3. Stanciu M.D., Gurău L., Dinulica F., Roibu C.C., Hiciu C., Mursa A., Stirbu M. The surface morphology of sanded curly maple in comparison with straight grain maple selected for musical instruments 11th Hardwood conference, Sopron, Hungary, 30-31 May 2024, http://www.hardwood.uni-sopron.hu/
4. Gall R., Savin A., Stanciu M.D., Campean M., Gliga V.Gh. The influence of the type of varnish on the viscous-elastic properties of maple wood used for musical instruments, 11th Hardwood conference, Sopron, Hungary, 30-31 May 2024, p. 426 - 434 http://www.hardwood.uni-sopron.hu/
5. **Stanciu M D,** Năstac S M, Dobrescu G, Dynamic behaviour of a car trailer, IOP Conference Series: Materials Science and Engineering, Volume 997, The 9th International Conference on Advanced Concepts in Mechanical Engineering - ACME 2020 4-5 June 2020, Iași, Romania https://iopscience.iop.org/article/10.1088/1757-899X/997/1/012104
6. **Stanciu M D,** Teodorescu H D, Trandafir M, V Guțăș, A Savin, Evaluation of mechanical properties of glass fibers chopped strands mat composite subjected to UV degradation, IOP Conference Series: Materials Science and Engineering, Volume 997, The 9th International Conference on Advanced Concepts in Mechanical Engineering - ACME 2020 4-5 June 2020, Iași, Romania, https://iopscience.iop.org/article/10.1088/1757-899X/997/1/012103
7. **Stanciu M.D.,** Barsanescu P., Goanta V., Savin A. Experimental determination of stress and strain states of the guitar's wood structure, MODTECH INTERNATIONAL CONFERENCE - MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VIII, IOP Conference Series-Materials Science and Engineering, 2020, 916, 012113, DOI10.1088/1757-899X/916/1/012113, WOS:000625330000113, https://iopscience.iop.org/article/10.1088/1757-899X/916/1/012113
8. **Stanciu M.D.,** Dinulica F., Cirstea I. Physical and mechanical characterization of resonance spruce (Picea Abies L), MODTECH INTERNATIONAL CONFERENCE - MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VIII, IOP Conference Series-Materials Science and Engineering, 2020, 916, 012112, DOI10.1088/1757-899X/916/1/012112, WOS:000625330000112, https://iopscience.iop.org/article/10.1088/1757-899X/916/1/012112
9. A Savin, R Sturm, Z Bergant, **MD Stanciu**, R Steigmann and G S Dobrescu (2020) Monitoring techniques for carbon fibers reinforced plastics used as complex structures, IOP Conf. Ser.: Mater. Sci. Eng. 916 012100 DOI 10.1088/1757-899X/916/1/012100, https://iopscience.iop.org/article/10.1088/1757-899X/916/1/012100
10. **Stanciu M D,** Năstac S, Gliga V Gh, Câmpean M, Bucur V, Effect of the wood anisotropy on eigenmodes and eigenvalues using finite element analysis – case of violin plates, IOP Conference Series: Materials Science and Engineering, Volume 997, The 9th International Conference on Advanced Concepts in Mechanical Engineering - ACME 2020 4-5 June 2020, Iași, Romania, https://iopscience.iop.org/article/10.1088/1757-899X/997/1/012105
11. Munteanu V. M., **Stanciu M.D.,** Vlase S., (2020) Image correlation to predict the gait recovery of patients in the postsurgery period, 13th International Conference Interdisciplinarity in Engineering (INTER-ENG

2019), Procedia Manufacturing, Volume 46, Pages 499-508, https://www.sciencedirect.com/science/article/pii/S2351978920309501

12. Munteanu M.V., **Stanciu M.D.,** Modrea A., (2020) Behavior of laminated wooden beam with variable section subjected to bending, 13th International Conference Interdisciplinarity in Engineering (INTER-ENG 2019) Procedia Manufacturing, Vol. 46, pages 899 -905, https://www.sciencedirect.com/science/article/pii/S2351978920314542
13. **Stanciu**, **MD.,** R. Bucur, H Draghicescu Teodorescu and A Savin, The influence of the rolling direction on the elastic characteristics of the bending samples, 2019 *IOP Conf. Ser.: Mater. Sci. Eng.* **591** 012032 **DOI** 10.1088/1757-899X/591/1/012032, https://iopscience.iop.org/article/10.1088/1757-899X/591/1/012032
14. DD Scărlătescu, A Modrea, M D Stanciu, Three-point Bend Test to Determine the Mechanical Behavior of the Tubes Used in Water Supply Networks,Procedia Manufacturing,Volume 32, 2019, Pages 179-186,ISSN 2351-9789, https://doi.org/10.1016/j.promfg.2019.02.200, https://www.sciencedirect.com/science/article/pii/S2351978919302343
15. D Faktorová, A Savin, R Steigmann, **MD Stanciu** and G Špániková, Numerical and experimental investigation of metamaterial structures used in non-destructive dielectric material testing, 2019 *IOP Conf. Ser.: Mater. Sci. Eng.* **564** 012036**DOI** 10.1088/1757-899X/564/1/012036, https://iopscience.iop.org/article/10.1088/1757-899X/564/1/012036
16. Savin, A N Iftimie, S M Nastac, **Stanciu M D**, Structural health monitoring of critical zones of small wind turbine blades for domestic users, 2019 *IOP Conf. Ser.: Mater. Sci. Eng.* **564** 012067, **DOI** 10.1088/1757-899X/564/1/012067, https://iopscience.iop.org/article/10.1088/1757-899X/564/1/012067
17. Iftimie, N., Savin, A., Steigmann R., **Stanciu MD**, Nondestructive testing sensor using semiregular architecture with folding ligaments, 2019 *IOP Conf. Ser.: Mater. Sci. Eng.* **591,** 012051 **DOI** 10.1088/1757-899X/591/1/012051, https://iopscience.iop.org/article/10.1088/1757-899X/591/1/012051
18. M.V. Munteanu, **Stanciu**, , **M.D.** I.Ş. Urucu and P.G. Duță, Structural analysis of classical guitar during the technological processing, 2018 *IOP Conf. Ser.: Mater. Sci. Eng.* **444** 062003 **DOI** 10.1088/1757-899X/444/6/062003, https://iopscience.iop.org/article/10.1088/1757-899X/444/6/062003
19. D Şova, **Stanciu**, **MD** E Belea and V V Bidu, Innovative thermal insulation panels with air channels, 2018 *IOP Conf. Ser.: Mater. Sci. Eng.* **444** 062005**DOI** 10.1088/1757-899X/444/6/062005, https://iopscience.iop.org/article/10.1088/1757-899X/444/6/062005
20. **Stanciu M. D.,** Ardeleanu A.F. Teodorescu Draghicescu H, Reverse engineering in finite element analysis of the behaviour of lignocellulosic materials subjected to cyclic stresses, in Procedia Manufacturing 22 (2018), pp 65-72, 11th International Conference Interdisciplinarity in Engineering, INTER-ENG 2017, 5-6 October 2017, Tirgu Mures, Romania, https://www.sciencedirect.com/science/article/pii/S2351978918303056

21. **Stanciu M.D.,** Curtu I., Szasz M. The assessment of the probabilistic burst of honed steel pipes based on elastic plastic behavior, in Procedia Engineering 181 (2017) pp.28-35, https://www.sciencedirect.com/science/article/pii/S1877705817309426
22. **Stanciu MD,** Curtu I, Savin A. A Finite Element Approach for Inter-Laminar Damage of the Carbon Fiber Reinforced Polymer due to Impact, in Procedia Engineering 181C (2017) pp. 249-256, doi 10.1016/j.proeng.2017.02.386, https://www.sciencedirect.com/science/article/pii/S1877705817309694
23. **Stanciu M.D.,** Savin A., Teodorescu Draghicescu H., The Assessing of the Failure Behavior of Glass/Polyester Composites Subject to Quasi Static Stresses, Materials Science and Engineering 209 (2017) 012007 doi:10.1088/1757-899X/209/1/012007, International Conference on Innovative Research — ICIR EUROINVENT 2017. https://iopscience.iop.org/article/10.1088/1757-899X/209/1/012007

C. Teza de doctorat

2009 – Teza de doctorat: **"Cercetări privind optimizarea formei şi structurii plăcilor compozite lignocelulozice supuse la solicitări ciclice, cu aplica ii la instrumentele muzicale"** (îndrumător de doctorat –prof. univ. dr. ing. Curtu Ioan)

2013 – Lucrare postdoctorat **"Cercetări privind optimizarea structurilor funcționale din materiale avansate utilizate în preluarea şi absorbția zgomotului urban datorat fluxurilor rutiere "**(mentor –prof. univ. dr. ing. Curtu Ioan)

2022 – Teza de abilitare în domeniul Inginerie mecanică: **"Comportamentul mecanic al structurilor complexe lignocelulozice de tip Helmholtz" (OM 4197/05.07.2022)**

D. Cărți și capitole de cărți

2025

1. **Stanciu M.D.,** Bucur V., (2025) Interdisciplinary Approach to the Violin. From the Forest Ecosystem Manufacturing Technology, Quality Control, to The Design of New Instruments. 978-3-031-81734-2, pp. 474, https://doi.org/10.1007/978-3-031-81734-2
2. Trușcă, D.D., Baba, M.N., **Stanciu, M.D.** (2025). Impact Attenuation Assessment of Several Lightweight Materials Subjected to a Motorcycle Helmet Free-Fall Drop Test. In: Chiru, A., Covaciu, D. (eds) CONAT 2024 International Congress of Automotive and Transport Engineering. CONAT 2024. Proceedings in Automotive Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-77635-9_15, pp 167–177,
3. **Stanciu, M.D.,** Dinulică, F., Roibu, C.C., Guiman, M.V., Cerbu, C., Savin, A. (2025). Quality Classes of Blanks for Violins and Some Relevant Physical Parameters of Wood. In: Stanciu, M.D., Bucur, V. (eds)

Interdisciplinary Approach to the Violin. Springer, Cham. https://doi.org/10.1007/978-3-031-81734-2_2, pp 155–197

4. Drăghicescu, H.T., **Stanciu, M.D**., Vlase, S., Mihălcică, M., Gall, R., Savin, A. (2025). Mechanical Characterization of Spruce Resonance Wood and Curly Maple for Violins. In: Stanciu, M.D., Bucur, V. (eds) Interdisciplinary Approach to the Violin. Springer, Cham. https://doi.org/10.1007/978-3-031-81734-2_3 , pp 199–231
5. **Stanciu, M.D.,** Coşniță, M., Coşereanu, C., Guiman, M.V., Năstac, S.M., Roşca, I.C. (2025). Effects of Violin Varnish on Some Physical, Mechanical and Acoustical Properties of Resonance Spruce and Curly Maple Samples. In: Stanciu, M.D., Bucur, V. (eds) Interdisciplinary Approach to the Violin. Springer, Cham. https://doi.org/10.1007/978-3-031-81734-2_6, pp 283–338

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6. **Stanciu, M.D.,** Micu, M., Nauncef, A.M., Rosca, I.C., Gliga, V.G., Nastac, SM. (2024). Acoustic Analysis of Violins in the Concert Hall—The Stainer Violins Case Study. In: Herisanu, N., Marinca, V. (eds) Acoustics and Vibration of Mechanical Structures—AVMS-2023. AVMS 2023. Springer Proceedings in Physics, vol 302. Springer, Cham. https://doi.org/10.1007/978-3-031-48087-4_13, pp 121 – 130
7. Mihalcica, M., Nauncef, A.M., Guiman, MV., Bîrsan, Ș., Nastac, SM., **Stanciu, M.D. (**2024). Analysis of Violinist Kinematics During Musical Rehearsals. In: Herisanu, N., Marinca, V. (eds) Acoustics and Vibration of Mechanical Structures—AVMS-2023. AVMS 2023. Springer Proceedings in Physics, vol 302. Springer, Cham. https://doi.org/10.1007/978-3-031-48087-4_18, pp 165–174
8. Guiman, M.V., **Stanciu, M.D.,** Nastac, S.M., Gliga, V.G., Savin, A. (2024). Free Vibration Analysis of Orthotropic Thin Rectangular Plates. In: Moldovan, L., Gligor, A. (eds) The 17th International Conference Interdisciplinarity in Engineering. Inter-ENG 2023. Lecture Notes in Networks and Systems, vol 926. Springer, Cham**.** https://doi.org/10.1007/978-3-031-54664-8_5 , pp. 42–53
9. Guiman, M.V., Roșca, I.C., Nastac, S.M., Georgescu, S.V., Câmpean, M., **Stanciu, M.D.** (2024). Sound Absorption Characteristics of Orthotropic Porous Materials. In: Moldovan, L., Gligor, A. (eds) The 17th International Conference Interdisciplinarity in Engineering. Inter-ENG 2023. Lecture Notes in Networks and Systems, vol 926. Springer, Cham. https://doi.org/10.1007/978-3-031-54664-8_15, pp. 152–163.

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10. **Stanciu, M.D.,** Nastac, S.M., Savin, A. (2023). Comparison Between Acoustic Spectral Evolutions of Violins Before and After Varnishing. In: Moldovan, L., Gligor, A. (eds) The 16th International Conference Interdisciplinarity in Engineering. Inter-Eng 2022. Lecture Notes in Networks and Systems, vol 605. Springer, Cham. https://doi.org/10.1007/978-3-031-22375-4_18, pp 210–222
11. **Stanciu, M.D.,** Nastac, S.M., Gliga, V.G., Gutas, V.P. (2023). Identifying the Constructive Features of Historical Violins Using Computer Tomography. In: Moldovan, L., Gligor, A. (eds) The 16th International

Conference Interdisciplinarity in Engineering. Inter-Eng 2022. Lecture Notes in Networks and Systems, vol 605. Springer, Cham. https://doi.org/10.1007/978-3-031-22375-4_19, pp 223–233

12. Mihalcica, M., **Stanciu, M.D.,** Dinulica, F., Savin, A., Bucur, V. (2023). The Effect of Resonance Wood Quality on Violins Vibration. In: Dimitrovová, Z., Biswas, P., Gonçalves, R., Silva, T. (eds) Recent Trends in Wave Mechanics and Vibrations. WMVC 2022. Mechanisms and Machine Science, vol 125. Springer, Cham. https://doi.org/10.1007/978-3-031-15758-5_90, pp. 873–881
13. **Stanciu, M.D.,** Trandafir, M., Nastac, S.M., Bucur, V. (2023). Dynamic Analysis of Musical Triangle. In: Dimitrovová, Z., Biswas, P., Gonçalves, R., Silva, T. (eds) Recent Trends in Wave Mechanics and Vibrations. WMVC 2022. Mechanisms and Machine Science, vol 125. Springer, Cham. https://doi.org/10.1007/978-3-031-15758-5_89, pp. 865–872

2022

14. **Stanciu M.D.** (coord.), Mihălcică M. (coord.) (2022) Dinamica viorii, Ed. Universității Transilvania din Brașov, ISBN 978–606–19–1517–0, pp. 302

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15. **Stanciu, M.D.;** Vlase, S.; Marin, M. Vibration Analysis of a Guitar considered as a Symmetrical Mechanical System, în e-book: Symmetry in Applied Continuous Mechanics, Eds. Marin Marin, Dumitru Baleanu, Sorin Vlase, 2020, ISBN 978-3-03943-031-4, pp. 103-118

E. Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. **Stanciu M.D**., Gurău L., Dinulica F., Roibu C.C., Hiciu C., Mursa A., Stirbu M. The surface morphology of sanded curly maple in comparison with straight grain maple selected for musical instruments **11th Hardwood conference**, Sopron, Hungary, 30-31 May 2024, http://www.hardwood.uni-sopron.hu/
2. Gall R., Savin A., **Stanciu M.D.,** Campean M., Gliga V.Gh. The influence of the type of varnish on the viscous-elastic properties of maple wood used for musical instruments, **11th Hardwood conference**, Sopron, Hungary, 30-31 May 2024, http://www.hardwood.uni-sopron.hu/
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F. Brevete

Propunere de brevet (2014):

CBI A/00560/23.07.14 (BI RO 130753A0): Plăci fonoabsorbante şi termoizolante obținute din deşeuri reciclate de ABS în proporție de 90%-100% şi procedeu de obținere,
Autori: COŞEREANU Camelia, Lica Dumitru, Brenci Luminița Maria, Fotin Adriana Curtu Ioan, Stanciu M.D.

Propunere de brevet (2018):
CBI A/00729/27.09.2018: Stand şi metodă de testare reologică a structurilor de chitară,
Autori: Stanciu M.D., Coşereanu C., Cerbu C., Munteanu V., Georgescu S., Vlase S.

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A06004/04.10.2022
STAND ȘI METODA DE TESTARE STATICĂ ȘI DINAMICĂ A VIORILOR,
Autori: Stanciu M.D., Gliga V.Gh., Mihalcica M., Cherdivar A., Nastac S., Campean M., Dinulica F

Propunere brevet (2024)
A00638/28.10.2024, Stand şi metoda de îmbătrânire acustică a instrumentelor muzicale noi,
Autori: Stanciu M.D., Mihalcica M., Guiman M.V., Nastac S.M.

Data: 29.09.2025
Prof. univ. dr. ing. Mariana Domnica Stanciu