

Listă de lucrări

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Teza de doctorat

1. Răcăsan, S. Contribuții la optimizarea prelucrării mecanice a lemnului prin frezare pe centre de prelucrare cu comandă numerică [CPCN]. Universitatea Transilvania, Brașov, 2011

Cărți

1. Răcăsan, S., Ispas, M. Mașini-unelte pentru prelucrarea lemnului, Îndrumar de laborator – partea I, Editura Universității Transilvania din Brașov, 2021. ISBN 978-606-19-1424-1 gen. ISBN 978-606-19-1473-9 partea I.

Lucrări în reviste indexate ISI

1. A. Lungu, A. Androne, L. Gurău, **S. Răcăsan**, C. Coșereanu, Textile heritage motifs to decorative furniture surfaces. Transpose process and analysis wos:000724911000006 ISI Journal of Cultural Heritage, 2021, vol. 52, pp 192-201, <https://doi.org/10.1016/j.culher.2021.10.006>
2. A. Lungu, M. Ispas, L.M. Brenci, **S.Răcăsan**, C. Coșereanu, Comparative Study on Wood CNC Routing Methods for Transposing a Traditional Motif from Romanian Textile Heritage into Furniture Decoration wos:000681989700001 ISI Applied Sciences 2021. Vol 11, 6713, <https://doi.org/10.3390/app11156713>.
3. **S. Răcăsan**, B. Bedelean, S. Georgescu, A.M. Varodi, Comparison Between Artificial Neural Networks and Response Surface Methodology to Predict the Bending Moment Capacity of Heat-treated Wood Dowel Joints, ISI Bioresources vol. 15, nr.3 pp.5764-5775
4. S. Georgescu, A.M. Varodi, **S. Răcăsan**, B. Bedelean, Effect of the Dowel Length, Dowel Diameter, and Adhesive Consumption on Bending Moment Capacity of Heat-treated Wood Dowel Joints ISI Bioresources vol. 14, nr.3 pp.6619-6632
5. L. Gurău, N Ayrilmis, J T Benthien, M Ohlmeyer, M K Kuzman, **S. Răcăsan**, EFFECT OF SPECIES AND GRINDING DISC DISTANCE ON THE SURFACE ROUGHNESS PARAMETERS OF MEDIUM

DENSITY FIBERBOARD. ISI European Journal of Wood and Wood Products, Mai 2017, Vol 75, Nr.3, pg 335-346

6. M. Ispas, L. Gurău,* M. Câmpean, M. Hacibektaşoglu, and **S. Răcășan**, MILLING OF HEAT-TREATED BEECH WOOD (*FAGUS SYLVATICA* L.) AND ANALYSIS OF SURFACE QUALITY", ISI Bioresources Vol.11, Nr.4 9095-9111, 8.sept. 2016 (DOI: 10.15376/biores.11.4.9095-9111)

Lucrări în reviste indexate BDI

1. B. Bedelean, I. Neculaeș, C. Spîrchez, **S. Răcășan**, THE INFLUENCE OF THE NUMBER AND POSITION OF DOWELS ON THE BENDING MOMENT CAPACITY OF HEAT-TREATED WOOD DOWEL JOINTS JurnalBDI:Bulletin of the Transilvania University of Brașov, Series II, Vol.14 (63), nr.1, 2021, <https://doi.org/10.31926/but.fwiafe.2021.14.63.1.6>
2. **S. Răcășan**, Study Regarding the Optimization of Milling Parameters for a Minimal Power Consumption Jurnal BDI: Pro Ligno Vol.14 Nr.4, 2018 ISSN-L 1841-4737
3. M. Ispas, **S. Răcășan**, STUDY REGARDING THE INFLUENCE OF THE TOOL GEOMETRY AND FEED RATE ON THE DRILLING QUALITY OF MDF PANELS Jurnal BDI:Pro Ligno Vol.13, Nr.4, 2017 ISSN-L 1841-4737
4. **S. Răcășan**, M. Ispas, COMPARATIVE STUDY ON THE TECHNICAL PERFORMANCES OF TWO THICKNESSING MACHINES, Jurnal BDI:Pro Ligno Vol.11 Nr.2, 2015 ISSN-L 1841-4737
5. M. Ispas, **S. Răcășan**, "THE INFLUENCE OF THE TOOL POINT ANGLE AND FEED RATE ON THE DYNAMIC PARAMETERS AT DRILLING COATED PARTICLEBOARD" Jurnal BDI:Pro Ligno Vol.11, Nr.4, 2015 ISSN-L 1841-4737
6. M. Ispas, L. Gurău, **S. Răcășan**, THE INFLUENCE OF THE TOOL POINT ANGLE AND FEED RATE ON THE DELAMINATION AT DRILLING OF PRE-LAMINATED PARTICLEBOARD JurnalBDI:Pro Ligno Vol.11, Nr.4, 2015 ISSN-L 1841-4737
7. M. Ispas, **S. Răcășan**, STUDY REGARDING THE VARIATION OF THE THRUST FORCE, DRILLING TORQUE AND SURFACE DELAMINATION WITH THE FEED PER TOOTH AND DRILL TIP ANGLE AT DRILLING PRE-LAMINATED PARTICLEBOARD Jurnal BDI:Pro Ligno Vol.10 Nr.4 2014 ISSN-L 1841-4737
8. M.Ispas, L. Gurău, **S. Răcășan**, THE INFLUENCE OF THE TOOL GEOMETRY AND FEED RATE ON THE DRILLING QUALITY OF PRE- LAMINATED PARTICLEBOARD ,PRO-Ligno Vol. 9. Nr.4, 2013 ISSN-L 1841-4737
9. M. Ispas, **S. Răcășan**, THE INFLUENCE OF THE TOOL GEOMETRY AND FEED RATE ON THE DYNAMIC PARAMETERS OF COATED PARTICLEBOARD DRILLING" PRO-Ligno Vol. 9. Nr.4, 2013 ISSN-L 1841-4737

Lucrări publicate în volumele unor conferințe internaționale/nationale

1. **S. Răcășan**, C. Spîrchez, Aspects regarding the cutting power on recessing depending on the annual rings orientation" Eighth international scientific conference "Mechanics and Machine Elements", Sofia October 25 - 26 2012.
2. **S. Răcășan**, N. Tăran, C. Spirchez Regarding the cutting power on processing with CNC machine tools, International Conference Wood Science and Engineering in the Third Millennium, 3-5 noiembrie 2011, ICWSE-Brasov ISSN 1843-2689
3. **S. Răcășan**, N. Tăran, REGARDING THE NOISE EMISSIONS ON RECESSING WITH NC MACHINE TOOLS International conference Challanges in Higher Education and Research, 2-5 june 2010, Sozopol, Bulgaria.
4. C. Spîrchez,N. Tăran, L. A. M. Bădescu, **S.Răcășan**, The Influence of kinematic parameters in the mathematical modeling of spruce wood processing on circular saws. International conference ICWSE "Wood Science and engineering in the third millennium" 3-5 november 2011 Brasov Romania ISSN 1843-2689
5. **S. Răcășan**, N. Tăran, CONSIDERATIONS REGARDIND THE CUTTING POWER ON RECESSING WITH NC MACHINE TOOLS, ICWSE- "Wood Science and engineering in the third millenium" 4-6 June 2009 Brasov ROMANIA
6. **S. Răcășan**, N. Tăran, Regarding the cutting power for mechanical processing on CNC machine tools - Challenges in Higher Education and Research in 21-st Century, Sozopol, Bulgaria 4-7 iunie 2008.
7. **S. Răcășan**, N. Tăran, Regarding the optimization of mechanical processing trough milling on NC machine-tools, TMCR Iasi 29-31 mai 2008 ISSN 1011-2855
8. C. Spîrchez, **S. Răcășan**, N. Godan, N. Tăran, O. Zeleniuc, Technical abilities of the circular saws for longitudinal cutting of timber in order to establish and optimise the processing conditions, Stiinta si Ingineria Lemnului in mileniul trei, Brasov, 20-22 iunie 2007.
9. N. Godan, C. Spîrchez, **S. Răcășan**, N. Tăran, Regarding the noise emission of circular saws for wood working , Stiinta si Ingineria Lemnului in mileniul trei, Brasov, 20-22 iunie 2007.
10. C. Spirchez, L. A. M. Bădescu, **S.Răcășan**, The influence of the specific cutting force in the process of circular sawing, Trends of wood working, forest and environmental technology development and their applicatios in manufacturing process." International scientific conference to the 10-th anniversary of FEVT fondation Zvolen, 5 -7 september 2006.
11. C. N. Chertes, M.E. Bogăteanu L. A. M. Bădescu, **S. Răcășan**, Conception of an supplementary device for positioning and fixing the pieces on three axis numerical contro machines, Trends of

- wood working, forest and environmental technology development and their applicatios in manufacturing process." International scientific conference to the 10-th anniversary of FEVT fondation Zvolen, 5 -7 september 2006.
12. C. Spîrchez, L. A. M. Bădescu, **S. Răcășan**, The influence of the specific cutting force in the process of circular sawing , Trends of wood working, forest and environmental technology development and their applicatios in manufacturing process" International scientific conference to the 10-th anniversary of FEVT fondation Zvolen, 5 -7 september 2006.
13. N. Tăran, **S. Răcășan**, N. Godan, Regarding the appreciation and evaluation of the machine-tools for wood processing trough the quality criteria, 4-th Research/Expert Conference with International Participations "Quality" 2005, Fojnia, Bosnia&Herzegovina, November 9-12,2005 , vol.1 ISSN 1512926.
14. N. Tăran, **S. Răcășan**, C. Spîrchez, N. Godan, ANALIZA FUNCTIONALA A MASINILOR-UNELTE CU CN SI A CENTRELOR DE PRELUCRARE C.N.C. „Stiinta si Ingineria lemnului in mileniul III” 4-6 nov. 2005 Brasov : Editura Universitatii "Transilvania", 2005, ISBN 973-635-601-9 vol I.
15. N. Tăran, **S. Răcășan**, N.D. Dima, D. Cuce, CONSIDERATII GENERALE PRIVIND EVOLUTIA CONSTRUCTIVA A MASINILOR DE ÎNDREPTAT. Cercetare –Dezvoltare in Domeniul Lemnului 16- 17 iunie 2005, ISBN 973-635-521-7.
16. C. Spîrchez, **S. Răcășan**, Study regarding the determination of the durability of carbide-tipped saw blades and diamond-tipped saw blades used for cutting melamine-faced chipboards, type THERMOPAL”, Wood science and engineering in the third millenium, Brasov, 3 noiembrie 2004.
17. N. Tăran, N. Begănu, M.Boroș, **S. Răcășan**, Regarding the optimization of sanding process through mathematical modelation, Wood science and engineering in the third millenium, Brasov, 3 noiembrie 2004
18. N. Tăran, **S. Răcășan**, Unele consideratii privind structura tehnologica a centrelor de prelucrare CNC. Stiinta si Ingineria Lemnului in Mileniul III, 1 Noiembrie 2003

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