# Jan Tippner

List of Publications by Year
in descending order



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|---|---|---|---|
| 50 papers | 523 citations | 706676 14 h-index | 843174 20 g-index |
| 51 all docs | 51 docs citations | 51 times ranked | 529 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The role of geometry precision in frequency-resonance method for non-destructive wood assessment â€“ numerical case study on sugar maple. Wood Material Science and Engineering, 2023, 18, 792-800. | 1.1 | 2 |
| 2 | Degradation of beech wood by Kretzschmaria deusta: its heterogeneity and influence on dynamic and static bending properties. Holzforschung, 2022, . | 0.9 | 2 |
| 3 | Influence of dimensions of wooden samples for determination of acoustic parameters and sound timbre. Applied Acoustics, 2022, 196, 108895. | 1.7 | 3 |
| 4 | Relationships between the Macrostructure Features and Acoustic Parameters of Resonance Spruce for Piano Soundboards. Applied Sciences (Switzerland), 2021, 11, 1749. | 1.3 | 2 |
| 5 | Development of a novel device for analysis of high-speed cutting processes considering the influence of dynamic factors. International Journal of Advanced Manufacturing Technology, 2021, 113, 1685-1697. | 1.5 | 5 |
| 6 | The effect of stem and root-plate defects on the tree response during static loadingâ€”Numerical analysis. Urban Forestry and Urban Greening, 2021, 59, 127002. | 2.3 | 9 |
| 7 | Surface Characteristics of One-Sided Charred Beech Wood. Polymers, 2021, 13, 1551. | 2.0 | 17 |
| 8 | Orthotropic elasticâ€“plasticâ€“damage model of beech wood based on split Hopkinson pressure and tensile bar experiments. International Journal of Impact Engineering, 2021, 157, 103975. | 2.4 | 3 |
| 9 | Possibilities of Decreasing Hygroscopicity of Resonance Wood Used in Piano Soundboards Using Thermal Treatment. Applied Sciences (Switzerland), 2021, 11, 475. | 1.3 | 3 |
| 10 | Modelling of impact behaviour of European beech subjected to split Hopkinson pressure bar test. Composite Structures, 2020, 245, 112330. | 3.1 | 9 |
| 11 | Thermally modified (TM) beech wood: compression properties, fracture toughness and cohesive law in mode II obtained from the three-point end-notched flexure (3ENF) test. Holzforschung, 2019, 73, 663-672. | 0.9 | 6 |
| 12 | Using 3D digital image correlation in an identification of defects of trees subjected to bending. Urban Forestry and Urban Greening, 2019, 46, 126513. | 2.3 | 6 |
| 13 | Numerical simulations of coupled moisture and heat transfer in wood during kiln drying: Influence of material nonlinearity. BioResources, 2019, 14, 9786-9805. | 0.5 | 6 |
| 14 | Structural assessment of a lapped scarf joint applied to historical timber constructions in central Europe. International Journal of Architectural Heritage, 2018, 12, 666-682. | 1.7 | 13 |
| 15 | Density profile and microstructural analysis of densified beech wood (Fagus sylvatica L.) plasticized by microwave treatment. European Journal of Wood and Wood Products, 2018, 76, 105-111. | 1.3 | 13 |
| 16 | Numerical and experimental study of conjugate heat transfer in a horizontal air cavity. Building Simulation, 2018, 11, 339-346. | 3.0 | 8 |
| 17 | Thermophysical properties of medium density fiberboards measured by quasi-stationary method: experimental and numerical evaluation. Heat and Mass Transfer, 2017, 53, 115-125. | 1.2 | 3 |
| 18 | Utilization of digital image correlation in determining of both longitudinal shear moduli of wood at single torsion test. Wood Science and Technology, 2017, 51, 29-45. | 1.4 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Experimental and numerical analysis of semi-destructive device for in situ assessment of wood properties in compression parallel to grain. Wood Science and Technology, 2017, 51, 345-356. | 1.4 | 0 |
| 20 | Verification of the elastic material characteristics of Norway spruce and European beech in the field of shear behaviour by means of digital image correlation (DIC) for finite element analysis (FEA). Holzforschung, 2017, 71, 405-414. | 0.9 | 12 |
| 21 | Experimental testing and theoretical prediction of traditional dowel-type connections in tension parallel to grain. Engineering Structures, 2017, 152, 180-187. | 2.6 | 10 |
| 22 | The Spread of Corrosion in Cast Iron and its Effect on the Life Cycle of Transportation Vehicles. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2017, 65, 383-389. | 0.2 | 2 |
| 23 | The Influence of Corrosion Attack on Grey Cast Iron Brittle-Fracture Behaviour and its Impact on the Material Life Cycle. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2017, 65, 1295-1301. | 0.2 | 0 |
| 24 | The effect of growth conditions in specific areas of Croatia and the Czech Republic on the physical and mechanical properties of black alder wood (Alnus glutinosa Gaertn.). Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2016, 40, 7-12. | 0.8 | 0 |
| 25 | Thermal bridges in a prefabricated wooden house: comparison between evaluation methods. Wood Material Science and Engineering, 2016, 11, 305-311. | 1.1 | 3 |
| 26 | Strain transfer from xylem to bark surface analyzed by digital image correlation. Wood Science and Technology, 2016, 50, 773-787. | 1.4 | 10 |
| 27 | The numerical assessment of a full-scale historical truss structure reconstructed with use of traditional all-wooden joints. Journal of Cultural Heritage, 2016, 21, 759-766. | 1.5 | 11 |
| 28 | Determination of the elasto-plastic material characteristics of Norway spruce and European beech wood by experimental and numerical analyses. Holzforschung, 2016, 70, 1081-1092. | 0.9 | 22 |
| 29 | Comparative evaluation of acoustic techniques for detection of damages in historical wood. Journal of Cultural Heritage, 2016, 20, 622-631. | 1.5 | 10 |
| 30 | Wood anatomy and acoustic properties of selected tropical hardwoods. IAWA Journal, 2016, 37, 69-83. | 2.7 | 16 |
| 31 | Standard and non-standard deformation behaviour of European beech and Norway spruce during compression. Holzforschung, 2015, 69, 1107-1116. | 0.9 | 17 |
| 32 | Prediction of mechanical properties - modulus of rupture and modulus of elasticity - of five tropical species by nondestructive methods. Maderas: Ciencia Y Tecnologia, 2015, , 0-0. | 0.7 | 24 |
| 33 | Experimental Evaluation of Mechanical Properties of Softwood using Acoustic Methods. BioResources, 2015, 11, . | 0.5 | 6 |
| 34 | Conventional compressive strength parallel to the grain and mechanical resistance of wood against pin penetration and microdrilling established by in-situ semidestructive devices. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3217-3229. | 1.3 | 17 |
| 35 | Influence of temperature and moisture content on the thermal conductivity of wood-based fibreboards. Materials and Structures/Materiaux Et Constructions, 2015, 48, 4077-4083. | 1.3 | 36 |
| 36 | Structural and acoustic properties of African padouk (Pterocarpus soyauxii) wood for xylophones. European Journal of Wood and Wood Products, 2015, 73, 235-243. | 1.3 | 7 |

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|---|---|---|---|
| 37 | Experimental assessment of a full-scale lap scarf timber joint accompanied by a finite element analysis and digital image correlation. Construction and Building Materials, 2015, 76, 24-33. | 3.2 | 27 |
| 38 | FE analysis of CLT panel subjected to torsion and verified by DIC. Materials and Structures/Materiaux Et Constructions, 2015, 48, 451-459. | 1.3 | 16 |
| 39 | Mechanical Performance and Contact Zone of Timber Joint With Oblique Faces. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2015, 63, 1153-1159. | 0.2 | 3 |
| 40 | Celodrevene platove spoje pro opravy historickych konstrukci. , 2015, , . | | 0 |
| 41 | Poissonâ€™s ratio of the MDF in respect to vertical density profile. European Journal of Wood and Wood Products, 2014, 72, 407-410. | 1.3 | 7 |
| 42 | Using optical full-field measurement based on digital image correlation to measure strain on a tree subjected to mechanical load. Trees - Structure and Function, 2014, 28, 1173-1184. | 0.9 | 16 |
| 43 | Mechanical properties of wood examined by semi-destructive devices. Materials and Structures/Materiaux Et Constructions, 2014, 47, 199-212. | 1.3 | 33 |
| 44 | Estimation of wood properties using pin pushing in method with various shapes of the penetration pin. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2014, 57, 53-60. | 0.2 | 3 |
| 45 | Microwave Device for Continuous Modification of Wood. BioResources, 2014, 9, . | 0.5 | 8 |
| 46 | The Relation of Fibre Length and Ray Dimensions to Sound Propagation velocity in wood of selected Tropical Hardwoods. IAWA Journal, 2013, 34, 49-60. | 0.5 | 8 |
| 47 | Evaluation of Stiffness and Strength of Scots Pine Wood Using Resonance Frequency and Ultrasonic Techniques. BioResources, 2013, 8, . | 0.5 | 31 |
| 48 | Quasi-Stationary Measurements of Lignamon Thermal Properties. BioResources, 2013, 8, . | 0.5 | 7 |
| 49 | The influence of wood density on longitudinal wave velocity determined by the ultrasound method in comparison to the resonance longitudinal method. European Journal of Wood and Wood Products, 2012, 70, 767-769. | 1.3 | 28 |
| 50 | Lapped scarf joints for repairs of historical structures. , 0, , . | | 2 |