

List of Publications

Prof. Dr.-Ing. Alexander Pfriem

Professorship for Wood Chemistry, Wood Physics and Chemical Engineering

a) Peer reviewed Journal Publications

- [1] Mund, A.; Kampe, A.; Clauder, L.; Pfriem, A.: Reduction of the corrosion potential of wood for application in the museum environment. *Wood Material Science and Engineering*. DOI: <http://dx.doi.org/10.1080/17480272.2023.2208101>
- [2] Linke, G.; Lübken, V.; Pfriem, A.; Weiß, M.; Rug, W.: Bestand statt Austausch - Untersuchungen zum Trag- und Verformungsverhalten von historischen Brettschichtholzbauteilen. *Bauingenieur* 98 (2023) 1-2, S. 1-9; DOI: <https://doi.org/10.37544/0005-6650-2023-01-02-29>
- [3] Mensah, I.; Ahiekpor, J.C.; Herold, N.; Bensah, E.C.; Pfriem, A.; Antwi, E.; Amponsem, B.: Biomass and Plastic Co-Pyrolysis for Syngas Production: Characterisation of *Celtis Mildbraedii* Sawdust as a Potential Feedstock. *Scientific African*, Elsevier, 16 (2022) e01208; DOI: <https://doi.org/10.1016/j.sciaf.2022.e01208>
- [4] Friedrich, J.; Lütje-Fournet, L.; Gengnagel, C.; Pfriem, A.: Brandschutztechnische Ertüchtigung von Holzoberflächen durch Pyrolyse - Verbesserung der brandhemmenden Wirkung von pyrolysierten Fassadenhölzern. *Holztechnologie*, 62 (2021) 2, 23-35
- [5] Sanne, M.; Kampe, A.; Lenz, C.; Gossel, S.; Wagner, S.; Haibel, A.; Melcher, E.; Pfriem, A., Lautner, S.: Anatomical studies of wood treated with pressure pulse shock waves. *International Wood Products Journal*, 12 (2021) 1, 3-6, DOI: <https://doi.org/10.1080/20426445.2020.1838215>
- [6] Sanne, M.; Munier, L.-F.; Förster, T.; Dreyer, Ch.; Pfriem, A.: Einfluss der Schlichte von Cellulose regeneratsfasern auf die Zugscherfestigkeit bei Holzverklebungen. *Holztechnologie*, 61 (2020) 5, 38-42
- [7] Sanne, M.; Ahn-Ercan, G.; Pfriem, A.: A mathematical Solution for calculating to the Springback in of moulded laminated Beech Stacks. *Forests* 11 (2020) 7, 725-736; <https://doi.org/10.3390/f11070725>
- [8] Munier, L.F.; Franke, T.; Herold, N.; Pfriem, A.: Humidity's Effect on the Dynamic-mechanical Behavior of Phenol-formaldehyde Impregnated Beech Wood Veneer. *BioResources*, 15 (2020) 1, 1563-1574; DOI: 10.15376/biores.15.1.1563-1574
- [9] Popescu, C.-M.; Pfriem, A.: Treatments and modification to improve the reaction to fire of wood and wood based products – an overview. *Fire and Materials*, 44 (2020) 1, 100-111; DOI: 10.1002/fam.2779

- [10] Pfriem, A.: Review – Die Verwendung von Tropenholz im Musikinstrumentenbau - Chancen für alternative Materialien? *Holztechnologie*. 59 (2018) 5, 15-20
- [11] Kampe, A.; Pfriem, A.: A Note on Artificial Weathering of spruce (*Picea abies*) with a carbonized layer. *International Wood Products Journal*. 9 (2018) 2, 86-89; <https://doi.org/10.1080/20426445.2018.1493841>
- [12] Franke, T.; Herold, N.; Buchelt, B.; Pfriem, A.: The Potential of Phenol-Formaldehyde as Plasticizing Agent for Moulding Applications of Wood Veneer - Two-Dimensional and Three-Dimensional Moulding. *European Journal of Wood and Wood Products*. 76 (2018) 5, 1409-1416; DOI: 10.1007/s00107-018-1320-1
- [13] Franke, T.; Mund, A.; Lenz, C.; Herold, N.; Pfriem, A.: Microscopic and Macroscopic swelling and dimensional stability of beech wood impregnated with phenol-formaldehyde, *ProLigno*, 13 (2017) 4, 373-378
- [14] Rademacher, P.; Bader, M.; Nemeth, R.; Klimek, P.; Sprdlik, V.; Rousek, R.; Cermak, P.; Pfriem, A.; Sanne, M.; Meinschmidt, P.; Wimmer, R.; Trischler, J.; Sandberg, D.: From native wood to engineered materials, Part 3: engineered hybrid wood-based products, *ProLigno*, 13 (2017) 4, 361-372
- [15] Wulf, F.; Sanne, M.; Pfriem, A.: Coatings for use on wooden bicycle frames – requirements, test methods and artificial weathering results. *Drvna industrija – “Wood Industry”*, 68 (2017) 4, 281-289
- [16] Franke, T.; Lenz, C.; Hertrich, S.; Kuhnert, N.; Kehr, M.; Herold, N.; Pfriem, A.: Künstliche Bewitterung von Buchenfurnier imprägniert mit drei Phenolharzen unterschiedlichen Molekulargewichts. *Holztechnologie*, 58 (2017) 1, 24-30
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- [18] Baensch, F.; Clauder, L.; Cordes, D.; Melcher, E.; Pfriem, A.: Farbanalyse an thermisch modifizierten und wachsimprägnierten Hölzern nach künstlicher Bewitterung. *Holztechnologie*, 57 (2016) 2, 23-30
- [19] Pfriem, A.: Thermally modified wood for use in musical instruments. *Drvna industrija – “Wood Industry”*, 66 (2015) 3, 251-253
- [20] Herold, N.; Grigsby, W.; Franich, R.; Pfriem, A.: Changes in Stiffness of Wood Veneer during Furfuryl Alcohol Modification. *European Journal of Wood and Wood Products*, 73 (2015) 5, 693-695, DOI: 10.1007/s00107-015-0941-x
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- [23] Zauer, M.; Hempel, S.; Pfriem, A.; Mechtcherine, V.; Wagenführ, A.: Investigations of the pore-size distribution of wood in the dry and wet state by means of mercury intrusion porosimetry. *Wood Science and Technology*, 48 (2014) 6, S. 1229-1240
- [24] Herold, N.; Lenz, C.; Pfriem, A.: Changes in Cell Wall Dimensions during the Different Stages of Furfuryl Alcohol Modification. *BioResources*, 9 (2014) 3, S. 4756-4763
- [25] Wulf, F.; Barth, H.; Pfriem, A.: Herstellung eines porösen Werkstoffes aus Natriumwasserglas und Holzpartikeln als Schallabsorber in Akustikplatten. *Holztechnologie*, 55 (2014) 3, S. 26-32
- [26] Herold, N.; Pfriem, A.: Shape Retention of Furfurylated and Moulded Wood Veneer. *BioResources*, 9 (2014) 1, S. 545-553
- [27] Shchupakivskyy, R.; Clauder, L.; Linke, N.; Pfriem, A.: Application of high-frequency densitometry to detect changes in early- and latewood density of Oak (*Quercus robur* L.) due to thermal modification. *European Journal of Wood and Wood Products*, 72 (2014) 1, S. 5-10
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- [40] Buchelt, B.; Pfriem, A.; Wagenführ, A.; Scheiding, W.: Thermisch modifizierte Furniere für dekorative Zwecke. *Holztechnologie* 52 (2011) 1, S. 16-21
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- [51] Pfriem, A.; Eichelberger, K.; Wagenführ, A.: Acoustic properties of thermally modified spruce for use for violins. *Journal of the Violin Society of America: VSA-Paper 21* (2007) 1, S. 102-111
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- [53] Wagenführ, A.; Buchelt, B.; Pfriem, A.: Material Behaviour of Veneer during multidimensional Moulding. *Holz- als Roh- und Werkstoff*, 64 (2006) 2, S. 83-89
- [54] Cong, N.T.; Pfriem, A.; Wagenführ, A.: Alternatives Verfahren zur Zerfaserung von Einjahrespflanzen für die Herstellung von Faserwerkstoffen für klein- und mittelständische Unternehmen, Teil 2 Werkstoffherstellung und -eigenschaften. *Holztechnologie* 47 (2006) 6, S. 18-25
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- [56] Wagenführ, A.; Pfriem, A.; Eichelberger, K.: Der Einfluss einer thermischen Modifikation von Holz auf einige im Musikinstrumentenbau relevanten Eigenschaften – Teil 2 technologische Eigenschaften, Herstellung und Prüfung von Musikinstrumentenbauteilen. *Holztechnologie* 47 (2006) 1, S. 40-44
- [57] Wagenführ, A.; Pfriem, A.; Eichelberger, K.: Der Einfluss einer thermischen Modifikation von Holz auf einige im Musikinstrumentenbau relevanten Eigenschaften – Teil 1 ausgewählte anatomische und physikalische Eigenschaften. *Holztechnologie* 46 (2005) 4, S. 36-42

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b) Conference contributions and Chapters of Books

- [59] Bender, T.; Reppe, F.; Sanders, T.; Schröder, J.; Behrendt, F.; Pfriem, A.: On the Mechanic Behaviour of Scots Pine and how it is affected by specific climatic events. 19th Annual Meeting of the Northern European Network for Wood Science and Engineering, 11-12.10.2023, As, Norwegen
- [60] Kneifel, J.; Munk, Ch.; Pfriem, A.: Acoustic properties and damping behavior of thermally modified and contact pyrolyzed spruce wood compared to native spruce wood at different relative humidities. 19th Annual Meeting of the Northern European Network for Wood Science and Engineering, 11-12.10.2023, As, Norwegen
- [61] Lenz, C.; Gollee, P.; Kühn, M.; Leich, Ch.; Pfriem, A.: Artificial irradiation (indoor) of wood species growing in Central Europe with different irradiation intensities and at different temperatures. 19th Annual Meeting of the Northern European Network for Wood Science and Engineering, 11-12.10.2023, As, Norwegen
- [62] Kampe, A.; Minzlaff, K.; Pfriem, A.: The influence of chickens droppings and high pressure cleaning on the modulus of elasticity. 19th Annual Meeting of the Northern European Network for Wood Science and Engineering, 11-12.10.2023, As, Norwegen
- [63] Wolff, I.; Lenz, C.; Pfriem, A.: Chart for the Core Objectives of Data Publishing within the Technical Infrastructure for Research Data Management. NFDI4Ing Conference 2023
- [64] Bender, T.; Munk, C.; Damay, J.; Jousserand, M.; Geradin, P.; Pfriem, A.: The Effect of Thermal Treatment of Sycamore Maple (*Acer Pseudoplatanus* L.) prior to Impregnation with Furfuryl Alcohol, regarding Homogeneity and Swelling Behaviour. 18th Annual Meeting of the Northern European Network for Wood Science and Engineering, 21-22.09.2022, Göttingen
- [65] Munier, L.F.; Treu, A.; Mahnert, K.-C.; Pfriem, A.: Comparative study on the suitability of different solutions based on sorbitol and citric acid as wood adhesives. 18th Annual Meeting of the Northern European Network for Wood Science
- [66] Munk, C.; Pfriem, A.: Influence of residual oxygen content during thermal modification process on mass loss, brightness colour and Young's modulus of *Fagus sylvatica* (L.). 18th Annual Meeting of the Northern European Network for Wood Science
- [67] Pfriem, A.: Perma – Plattform zur effizienten Ressourcenauslastung in der Möbel- und Ausstattungsindustrie. Transferkonferenz der BMBF Fördermaßnahme „Ressourceneffiziente Kreislaufwirtschaft – Innovative Produktkreisläufe (ReziProK)“. 23.-24.06.2022, Berlin

- [68] Clauder, L.; Munk, Ch.; Pfriem, A.: The Influence of Thermal Modification on the Material-Brightness (L^*), Documented by in-situ Measurements. 10th European Conference on Wood Modification, 25.-26.04.2022, Nancy, Frankreich
- [69] Bansamir, L.; Wulf, F.; Brodhagen, T.; Pfriem, A.: Consolidation of wood shavings-sand mixtures by biomineralization. 10th European Conference on Wood Modification, 25.-26.04.2022, Nancy, Frankreich
- [70] Bender, T.; Munk, Ch.; Pfriem, A.; Damay, J.; Fredon, E.; Rémond, R.; Méausoone, P. J.; Akong, F. O.; Gerardin, P.; Jousserand, M.: Influence of thermal modification on the impregnability of beech (*Fagus sylvatica* [L.]) and European Maple (*Acer pseudoplatanus* [L.]). 10th European Conference on Wood Modification, 25.-26.04.2022, Nancy, Frankreich
- [71] Wozniak, M.; Wulf, F.; Pfriem, A.: Investigation of a change in the hardness properties of thermally modified beech wood (*Fagus sylvatica* L) as a result of a 6-week long-term temperature at 120°C and 140°C. 10th European Conference on Wood Modification, 25.-26.04.2022, Nancy, Frankreich
- [72] Munk, Ch.; Pfriem, A.: Influence of thermal modification and subsequent linseed oil impregnation on the sound propagation velocity and related acoustic properties of various wood species. 10th European Conference on Wood Modification, 25.-26.04.2022, Nancy, Frankreich
- [73] Wozniak, M.; Wulf, F.; Munier, L.-F.; Mund, A.; Pfriem, A.: Reduce, Reuse, Recycle im Möbelsektor. 20. Holztechnologisches Kolloquium Dresden, 28.-29.04.2022, Dresden
- [74] Brügge, J.; Pfriem, A.: BioBasedBoats – wie der Bootsbau nachhaltiger werden kann. 13. Lübecker Werkstofftag, 24.03.2022, Lübeck
- [75] Pfriem, A.; Lütje-Fournet, L.: PyroForCE and PyroConti - Pyrolysis for construction elements. Online Conference Wood Modification 16.3.2022, Hamburg
- [76] Pfriem, A.: Verfügbare Quellen für Bootsbau-Hölzer und Möglichkeiten durch Ersatzhölzer. 8. Classic Yacht Symposium. 04.02.2022, Kiel
- [77] Pfriem, A.: 3D-Druck mit und auf Holz. Netzwerktreffen Bauwerksbegrünung. 29.11.2021
- [78] Munk, C.; Wohler, H.; Pfriem, A.: Investigation of the influence of two different thermal treatment processes on the change of various material properties of spruce resonance wood (*Picea abies* (L.) Karst). 17th annual meeting of the Nordic Baltic Network in Wood Material Science & Engineering (WSE), 14.-15.10.2021, Kaunas, Lithuania
- [79] Sanne, M.; Sperling, C.; Pfriem, A.: Investigation of the influence of fabric inforcement in bamboo T-connectors. 17th annual meeting of the Nordic Baltic Network in Wood Material Science & Engineering (WSE), 14.-15.10.2021, Kaunas, Lithuania

- [80] Pfriem, A.: Nativ-basierte Leichtbaukonzepte mit Holz. Enabling-Veranstaltung für Unternehmen mit dem Fokus Kunststoffverarbeitung und Leichtbautechnologien. MS-Teams, 11.05.2021
- [81] Bansamir, L.; Wulf, F.; Brodhagen, T., Pfriem, A.: Surface coating of pyrolyzed and native wood surfaces with calcium carbonate crystals by biomineralization. 15th annual meeting of the Nordic Baltic Network in Wood Material Science & Engineering (WSE), 09-10.10.2019, Lund, Schweden
- [82] Sanne, M.; Makowski, S.; Ahn-Ercan, G.; Pfriem, A.: Springback effect on laminated beech sheets/stacks. 15th annual meeting of the Nordic Baltic Network in Wood Material Science & Engineering (WSE), 09.-10.10.2019, Lund, Schweden
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- [84] Kampe, A.; Clauder, L.; Pfriem, A.: Application of chemical buffers to prevent and reduce VOC-emissions of different wood species. 15th annual meeting of the Nordic Baltic Network in Wood Material Science & Engineering (WSE), 09-10.10.2019, Lund, Schweden
- [85] Bender, T.; Clauder, L.; Pfriem, A.: Comparison of different recipes for thermal modification of European tone wood and their influence on the acoustic behavior. 15th annual meeting of the Nordic Baltic Network in Wood Material Science & Engineering (WSE), 09-10.10.2019, Lund, Schweden
- [86] Mund, A.; Munier, L.F.; Franke, T.; Herold, N.; Pfriem, A.: Investigating the shape stability of moulded phenol-formaldehyde modified beech veneers by means of digital image correlation. 21st International Nondestructive Testing and Evaluation of Wood Symposium, Freiburg, 24.-27.09.2019
- [87] Pfriem, A.; Wulf, F.; Brodhagen, T.: Das Brandverhalten von Holz und dessen Prüfung. Symposium Brandsicherheit und Gefährdungspotential im Kontext neuartiger innovativer Bauweisen und Produkte, Wildau, 09.05.2019
- [88] Zauer, M.; Pfriem, A.: Tropical hardwood in musical instruments and case studies to their substitution by modified wood. In: Marco A. Pérez [Hrsg.]: Book of End of WoodMUSIC COST Action FP1302 Wooden Musical Instruments: Different Forms of Knowledge. 2018
- [89] Gossel, S.; Sanne, M.; Wagner, S.; Pfriem, A.; Lautner, S.; Leu, C.: Pressure pulse impregnation process using high voltage technology - Generation of electrohydraulic discharges to improve treatability of softwoods with impregnating liquid. VDE-Hochspannungstage, Berlin, 12.-14.11.2018

- [90] Munk, C.; Clauder, L.; Pfriem, A.: Acoustical comparison of two different guitars, made of untreated tropical wood and thermally modified wood, using a frequency response analysis. 14th annual meeting of the Nordic Baltic Network in Wood Material Science & Engineering (WSE), 02-03.10.2018, Tallinn, Estland
- [91] Sanne, M.; Kampe, A.; Leonard, M.; Herold, N.; Pfriem, A.: Bambulator – an example of sustainable bioeconomy. 14th annual meeting of the Nordic Baltic Network in Wood Material Science & Engineering (WSE), 02-03.10.2018, Tallinn, Estland
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- [93] Pfriem, A.: Chapter 5.5.5. Pyrolysis Machine. In: Zeinali D., Kolaitis, D.I. [Hrsg.] Guide for Obtaining Data from Reaction to Fire Tests. COST FP 1404, 2018
- [94] Báder, M.; Bak, M.; Németh, R.; Rademacher, P.; Rousek, R.; Horníček, S.; Dömény, J.; Klímek, P.; Kudela, J.; Sandberg, D.; Neyses, B.; Kutnar, A.; Wimmer, R.; Pfriem, A.: Wood Densification processing for newly engineered materials. Proceedings of the 5th International Conference on Processing Technologies for the Forest and Bio-based Products Industries (PTF BPI 2018) Freising/Munich, 20.-21.09.2018
- [95] Zerbst, D.; Clauder, L.; Olson, D.; Pfriem, A.: Influence on acoustical properties of resonant soundboard material through different processes of thermal modification. 9th European Conference on Wood Modification, Arnhem, Netherland, 17.-18.09.2018
- [96] Hertrich, S.; Clauder, L.; Lautner, S.; Pfriem, A.: Comparative studies on the biological durability of identical thermally modified wood from field and laboratory tests. 9th European Conference on Wood Modification, Arnhem, Netherland, 17.-18.09.2018
- [97] Munier, L.F.; Franke, T.; Herold, N.; Pfriem, A.: The effect of humidity on the dynamic-mechanical behaviour of phenol-formaldehyde impregnated beech wood veneer. 9th European Conference on Wood Modification, Arnhem, Netherland, 17.-18.09.2018
- [98] Pfriem, A.: Tropenholzproblematik im Musikinstrumentenbau, Chancen für alternative Materialien? 18. Holztechnologisches Kolloquium, Dresden, 12.-13.04.2018
- [99] Pfriem, A.: Neue Fensterhölzer durch Holzmodifikation: Accoya, Thermoholz, Furfurylierung, Bautec Fenster-Fachtagung 2018 „Neue Techniken – Neue Werkstoffe“, 21.2.2018, Berlin
- [100] Franke, T.; Mund, A.; Lenz, C.; Herold, N.; Pfriem, A.: Microscopic and Macroscopic swelling and dimensional stability of beech wood impregnated with phenol-formaldehyde, Conference Wood Science and Engineering in the third Millennium, 2-4.11.2017, Brasov, Romania
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