

PUBLICATIONS

Articles in Peer-Reviewed Journals

- [1] **Kyyrö S, Altgen M, Belt T, Seppäläinen H, Brischke C, Heinze P, Militz H, Rautkari L (2023)** Effect of pressurized hot water extraction on the resistance of Scots pine sapwood against mould fungi. *Holzforschung*. <https://doi.org/10.1515/hf-2022-0190>
- [2] **Brischke C, Alfredsen G (2022)** *The biological durability of pine wood – Review on the inter-species variation within the genus Pinus*. *Wood Material Science and Engineering*. <https://doi.org/10.1080/17480272.2022.2104134>
- [3] **Brischke C, Emmerich L (2022)** *Feuchtebeständigkeit holzbasierter Materialien – Prüfmethode, Beitrag zur Dauerhaftigkeit und Implementierung in Normen*. *Holztechnologie* 63: 18-28.
- [4] **Brischke C, Wippermann K (2022)** *Foil storage of storm-felled timber – Long-term monitoring of Norway spruce piles in Germany*. *Forests* 13: 1918. <https://doi.org/10.3390/f13111918>
- [5] **Jones D, Kržišnik D, Hočevár M, Zagar A, Humar M, Popescu C-M, Popescu M-C, Brischke C, Nunes L, Curling S, Ormondroyd G, Sandberg D (2022)** Evaluation of the effect of a combined chemical and thermal modification of wood through the use of bicine and tricine. *Forests* 13(6): 834. <https://doi.org/10.3390/f13060834>
- [6] **Kyyrö S, Altgen M, Belt T, Seppäläinen H, Brischke C, Heinze P, Rautkari L, Militz H (2022)** *Effect of pressurized hot water extraction and esterification on the moisture properties and decay resistance of Scots pine (Pinus sylvestris L.) sapwood*. *Holzforschung*. <https://doi.org/10.1515/hf-2022-0100>
- [7] **Sheik AA, Hosseinpourpia R, Brischke C, Adamopoulos S (2022)** *Anatomical, physical and biological properties of two rattan species of different diameter classes*. *Forests* 13 (1): 132. <https://doi.org/10.3390/f13010132>
- [8] **Starck M, Heidel A, Brischke C, Militz H (2022)** *Incising and double impregnation of Beech sleepers -Investigation of an alternative preservation system replacing creosote treated railway sleepers*. *Frontiers in Forests and Global Change* 5: 814049. <http://doi.10.3389/ffgc.2022.814049>
- [9] **Brischke C, Emmerich L, Koddenberg T, Kick ABE (2022)** *Properties of Mexican bloodwood (Haematoxylum campechianum L.) - Part 2: Moisture performance and biological durability*. *Holzforschung* 76: 339-347. <https://doi.org/10.1515/hf-2021-0187>

- [10] **Brischke C, von Boch-Galhau N, Bollmus S (2022)** *Impact of different sterilization techniques and mass loss measurements on the durability of wood against wood-destroying fungi*. European Journal of Wood and Wood Products 80: 35-44. <https://doi.org/10.1007/s00107-021-01745-8>
- [11] **Koddenberg T, Brischke C, Emmerich L, Kick ABE (2022)** *Properties of Mexican bloodwood (Haematoxylum campechianum L.) – Part 1: Anatomical and colorimetric characteristics*. Holzforschung 76: 330-338. <https://doi.org/10.1515/hf-2021-0186>
- [12] **Marais BN, Brischke C, Militz H (2022)** *Wood durability in terrestrial and aquatic environments – A review of biotic and abiotic influence factors*. Wood Material Science and Engineering 17: 82-105. <https://doi.10.1080/17480272.2020.1779810>
- [13] **Sharapov E, Brischke C, Bicke S, Steeg J, Militz H (2022)** *Evaluation of white rot decay in phenol-formaldehyde resin treated European beech (Fagus sylvatica L.) LVL by drilling resistance measurements*. European Journal of Wood and Wood Products 80: 439-449. <https://doi.org/10.1007/s00107-021-01769-0>
- [14] **van Niekerk PB, Brischke C, Marais BN, Militz H, Borges LMS, Cragg SM, Kutnik M, Ansard D, Humar M, Niklewski J (2022)** *Mapping the biotic degradation hazard of wood in Europe – biophysical background, engineering applications, and climate change-induced prospects*. Holzforschung 76(2), 188-210. <https://doi.org/10.1515/hf-2021-0169>
- [15] **Alfredsen G, Brischke C, Marais BN, Stein RFA, Zimmer K, Humar M (2021)** *Modelling the material resistance of wood - Part 1: Utilizing durability test data based on different reference wood species*. Forests. Special Issue "Modeling the Performance of Wood and Wood Products". Forests 12(5): 558. <https://doi.org/10.3390/f12050558>
- [16] **Brischke C, Bollmus S, Braun M, Emmerich L (2021)** *Foil storage for conservation of beetle-infested spruce logs – a feasibility study*. ProLigno 17: 11-17.
- [17] **Emmerich L, Bleckmann M, Strohbusch S, Brischke C, Bollmus S, Militz H (2021)** *Growth behaviour of wood-destroying fungi in chemically modified wood - Wood degradation and translocation of nitrogen compounds*. Holzforschung 75: 786-797. <https://doi.org/10.1515/hf-2020-0252>
- [18] **Emmerich L, Brischke C (2021)** *Electrical moisture content measurements of modified wood – Determination of resistance characteristics and outdoor monitoring*. Holztechnologie 62: 11-22.
- [19] **Emmerich L, Brischke C, Bollmus S, Militz H (2021)** *Dynamic strength properties and structural integrity of wood modified with cyclic N-methylol and N-methyl compounds*. Holzforschung 75: 932-944. <https://doi.org/10.1515/hf-2021-0013>

- [20] **Emmerich L, Brischke C, Militz H (2021)** *Wood modification with N-methylol and N-methyl compounds: a case study on how non-fixed chemicals in modified wood may affect the classification of their durability*. *Holzforschung* 75, 1061-1065. <https://doi.org/10.1515/hf-2021-0037>
- [21] **Emmerich L, Ehrmann A, Brischke C, Militz H (2021)** *Comparative studies on the durability and moisture performance of wood modified with cyclic N-methylol and N-methyl compounds*. *Wood Science and Technology* 55: 1531-1554. <https://doi.org/10.1007/s00226-021-01303-8>
- [22] **Helali J, Momenzadeh H, Saeidi V, Ebrahimi G, Brischke C, Lotfi M (2021)** *Wood decay hazard and its variation during different decades and El Niño Southern oscillation phases: climate time series analysis in Iran*. *Frontiers in Forests and Global Change* 181. <https://doi.org/10.3389/ffgc.2021.693833>
- [23] **Marais BN, Brischke C, van Niekerk PB (2021)** *Studies into Fungal Decay of Wood in Ground Contact – Part 2: Development of a Dose-Response Model to Predict Decay Rate*. *Forests*. Special Issue "Modelling the Performance of Wood and Wood Products" 12(6): 698. <https://doi.org/10.3390/f12060698>
- [24] **Niklewski J, Brischke C, Frühwald Hansson E, Meyer-Veltrup L, Kavurmaci D (2021)** *Numerical study on the effects of macro climate and detailing on the relative decay hazard of Norway spruce*. *Wood Material Science and Engineering* 16: 12-20. <https://doi.org/10.1080/17480272.2019.1608296>
- [25] **Niklewski J, van Niekerk PB, Brischke C, Frühwald Hansson E (2021)** *Evaluation of moisture and decay models for a new design framework for decay prediction of wood*. *Forests*. Special Issue "Modeling the Performance of Wood and Wood Products" 12(6): 721. <https://doi.org/10.3390/f12060721>
- [26] **Sharapov E, Brischke C, Militz H (2021)** *Effect of grain direction on drilling resistance measurements in wood*. *International Journal of Architectural Heritage* 15: 250-258. <https://doi.org/10.1080/15583058.2020.1766158>
- [27] **Stolze H, Schuh M, Kegel S, Fürkötter-Ziegenbein C, Brischke C, Militz H (2021)** *Monitoring of a typical installation of beech glued laminated timber and delamination resistance of beech finger-joints in different ambient climates*. *Forests*, 12(12): 1672. <https://doi.org/10.3390/f12121672>
- [28] **van Niekerk PB, Brischke C, Niklewski J (2021)** *Estimating the service life of timber structures concerning risk and influence of fungal decay - A review of existing theory and modelling approaches*. *Forests* Special Issue "Modeling the Performance of Wood and Wood Products". *Forests* 12(5): 588. <https://doi.org/10.3390/f12050588>
- [29] **Brischke C, Alfredsen G (2020)** *Wood-water relationships and their role for wood susceptibility to fungal decay*. *Applied Microbiology and Biotechnology* 104: 3781–3795. <https://doi.org/10.1007/s00253-020-10479-1>

- [30] **Brischke C, Grünwald LK, Bollmus S (2020)** *Effect of size and shape of specimens on the mass loss caused by Coniophora puteana in wood durability tests*. European Journal of Wood and Wood Products 78: 811-819. <https://doi.org/10.1007/s00107-020-01559-0>
- [31] **Brischke C, Selter V (2020)** *Mapping the decay hazard of wooden structures in topographically divergent regions*. Forests 11(5): 510. <https://doi.org/10.3390/f11050510>
- [32] **Emmerich L, Brischke C, Sievert M, Schulz MS, Jaeger A-C, Beulshausen A, Humar M (2020)** *Predicting the outdoor moisture performance of wood based on laboratory indicators*. Special Issue "Modeling the Performance of Wood and Wood Products". Forests, 11(9): 1001; <https://doi.org/10.3390/f11091001>
- [33] **Emmerich L, Militz H, Brischke C (2020)** *Long-term performance of DMDHEU-treated wood installed in different test set-ups in ground, above ground and in the marine environment*. International Wood Products Journal 11; 27-37. <https://doi.org/10.1080/20426445.2020.1715553>
- [34] **Humar M, Repič R, Kržišnik D, Lesar B, Cerc-Korosec R, Brischke C, Emmerich L, Rep G (2020)** *Quality control of thermally modified timber using Dynamic Vapor Sorption (DVS) analysis*. Forests 11(6): 666. <https://doi.org/10.3390/f11060666>
- [35] **Imken AAP, Brischke C, Kögel S, Krause KC, Mai C (2020)** *Analysis of the resistance of wood-based-materials against mould fungi – a comparison of methods*. European Journal of Wood and Wood Products 78: 661-671. <https://doi.org/10.1007/s00107-020-01554-5>
- [36] **Lloyd J, Taylor A, Brischke C, Irby N (2020)** *Protecting the heartwood of wood infrastructure - Improving performance with borate dual treatments*. Wood Material Science and Engineering 15: 361-367. <https://doi.org/10.1080/17480272.2020.1749881>
- [37] **Marais BN, Brischke C, Militz H, Peters JH, Reinhardt L (2020)** *Studies into Fungal Decay of Wood in Ground Contact – Part 1: The Influence of Water-Holding Capacity, Moisture Content, and Temperature of Soil Substrates on Fungal Decay of Selected Timbers*. Forests 11: 1284. <https://doi.org/10.3390/f11121284>
- [38] **Sharapov E, Brischke C, Militz H (2020)** *Assessment of preservative-treated wood poles using drilling resistance measurements*. Forests 11: 20. <https://doi.org/10.3390/f11010020>
- [39] **Bollmus S, Bächle L, Militz H, Brischke C (2019)** *Dauerhaftigkeitsklassifizierung von schutzmittelbehandeltem und chemisch modifiziertem Holz*. Holztechnologie 60: 13-25.
- [40] **Brischke C, Emmerich L, Nienaber DGB, Bollmus S (2019)** *Biological durability of sapling-wood products used for gardening and outdoor decoration*. Forests 10: 1152. <https://doi.org/10.3390/f10121152>

- [41] **Brischke C, Humar M, Niklewski, J, Alfredsen G (2019)** *Modelle zur Vorhersage der Gebrauchsdauer von Holzbauteilen auf dem Prüfstand*. Holztechnologie 60: 23-34.
- [42] **Brischke C, Wegener FL (2019)** *Impact of water holding capacity and moisture content of soil substrates on the wood moisture content in terrestrial microcosms*. Forests 10: 485; <https://doi.org/10.3390/f10060485>
- [43] **Brischke C, Ziegeler N, Bollmus S (2019)** *Abrasion resistance of thermally and chemically modified timber*. Drvna Industrija 70: 71-76.
- [44] **Emmerich L, Wülfing G, Brischke C (2019)** *The impact of anatomical characteristics on the structural integrity of wood*. Forests 10: 199. <https://doi.org/10.3390/f10020199>
- [45] **Humar M, Lesar B, Kržišnik D, Brischke C (2019)** *Performance of wood decking after 5 years of exposure: verification of the combined effect of wetting ability and durability*. Forests 10: 903. <https://doi.org/10.3390/f10100903>
- [46] **Sharapov E, Brischke C, Militz H, Smirnova E (2019)** *Combined effect of wood moisture content, drill bit rotational speed and feed rate on drilling resistance measurements in Norway spruce (Picea abies (L.) Karst.)*. Wood Material Science and Engineering 15: 198-204. <https://doi.org/10.1080/17480272.2018.1557249>
- [47] **Sharapov E, Brischke C, Militz H, Smirnova E (2019)** *Prediction of modulus of elasticity in static bending and density of wood at different moisture contents and feed rates by drilling resistance measurements*. European Journal of Wood and Wood Products 77: 833-842. <https://doi.org/10.1007/s00107-019-01439-2>
- [48] **Sharapov E, Brischke C, Militz H, Torpov A (2019)** *Impact of feed rate and rotational speed of drill bit on wood properties evaluation by drilling resistance measurements*. International Wood Products Journal 10: 128-138. <https://doi.org/10.1080/20426445.2019.1688455>
- [49] **Treu A, Zimmer K, Brischke C, Larnøy E, Gobakken LR, Aloui F, Cragg SM, Flæte P-O, Humar M, Westin M, Borges L, Williams J (2019)** *Durability and protection of timber structures in marine environments in Europe: an overview*. BioResources 14: 10161-10184. <https://doi.org/10.15376/biores.14.4.Treu>
- [50] **Ugovšek A, Šubic B, Starman J, Rep G, Humar M, Lesar B, Thaler N, Brischke C, Meyer-Veltrup L, Jones D, Häggström U, Lozano JI (2019)** *Short term performance of wooden windows and facade elements made of thermally modified and non-modified Norway spruce in different natural environments*. Wood Material Science and Engineering 14: 42-47. <https://doi.org/10.1080/17480272.2018.1494627>
- [51] **Wentzel M, Brischke C, Militz H (2019)** *Dynamic and static mechanical properties of Eucalyptus nitens thermally modified in an open and closed reactor system*. Maderas-Ciencia y tecnología 21: 141-152. <http://dx.doi.org/10.4067/S0718-221X2019005000201>

- [52] **Wentzel M, González-Prieto Ó, Brischke C, Militz H (2019)** *Thermally modified Eucalyptus nitens as material for decking*. *Drvna Industrija* 70: 235-245.
- [53] **Zelinka SL; Kirker GT, Brischke C, Passarini L (2019)** *Salt damage in wood: controlled laboratory exposures and mechanical property measurements*. *Wood and Fiber Science* 52: 44-52. <https://doi.org/10.22382/wfs-2020-005>
- [54] **Alfredsen G, Brischke C, Meyer-Veltrup L, Humar M, Flæte P-O (2018)** *The effect of different test methods on durability classification of modified wood*. *ProLigno* 13: 290-297.
- [55] **Brischke C, Bornemann T, Rapp AO (2018)** *Monitoring of a cold roof thatched with reed (Phragmites australis) using wooden substitute sensors for moisture content measurements*. *Restoration of Buildings and Monuments* 22: 89-97. <https://doi.org/10.1515/rbm-2016-0004>
- [56] **Brischke C, Hesse C, Meyer-Veltrup L, Humar M (2018)** *Studies on the material resistance and moisture dynamics of Common juniper, yew, black cherry, and rowan*. *Wood Material Science and Engineering* 13: 222-230. <https://doi.org/10.1080/17480272.2017.1356371>
- [57] **Brischke C, Meyer-Veltrup L, Soetbeer A (2018)** *Moisture requirements of wood decay fungi – Review on methods, thresholds, and experimental limitations*. *Holztechnologie* 59: 36-42.
- [58] **Brischke C, Stricker S, Meyer-Veltrup L, Emmerich L (2018)** *Changes in sorption and electrical properties of wood caused by fungal decay*. *Holzforschung* 73: 445-455. <https://doi.org/10.1515/hf-2018-0171>
- [59] **Gellerich A, Brischke C, Militz H, Klüppel A (2018)** *Resistance of modified wood against marine borers*. *Holztechnologie* 60: 5 – 11.
- [60] **Janus M, Cragg S, Brischke C, Meyer-Veltrup L, Wehsener J (2018)** *Laboratory screening of thermo-mechanically densified and thermally modified timbers for resistance to the marine borer Limnoria quadripunctata*. *European Journal of Wood and Wood Products* 76: 393-396. <https://doi.org/10.1007/s00107-017-1239-y>
- [61] **Kržišnik D, Brischke C, Lesar B, Thaler N, Humar M (2018)** *Performance of wood in the Franja partisan hospital*. *Wood Material Science and Engineering* 14: 24-32. <https://doi.org/10.1080/17480272.2018.1438512>
- [62] **Lloyd J, Brischke C, Bennett R, Taylor A (2018)** *Dual borate and copper naphthenate treatment of bridge timbers - Potential cost savings by various performance enhancements*. *Wood Material Science and Engineering* 13: 122-128. <https://doi.org/10.1080/17480272.2017.1383512>

- [63] **Meyer-Veltrup L, Brischke C, Niklewski J, Frühwald Hansson E (2018)** *Design and performance prediction of timber bridges based on a factorization approach*. Wood Material Science and Engineering 13: 167-173.
<https://doi.org/10.1080/17480272.2018.1424729>
- [64] **Niklewski J, Brischke C, Frühwald Hansson E, Meyer-Veltrup L (2018)** *Moisture behavior of weathered wood surfaces during cyclic wetting: measurements and modeling*. Wood Science and Technology 52: 1431–1450.
<https://doi.org/10.1007/s00226-018-1044-8>
- [65] **Sharapov E, Brischke C, Militz H, Smirnova E (2018)** *Effects of white- and brown-rot decay on the drilling resistance measurements in wood*. Holzforschung 72: 905-913.
<https://doi.org/10.1515/hf-2017-0204>
- [66] **Wehsener J, Brischke C, Meyer-Veltrup L, Hartig J, Haller P (2018)** *Physical, mechanical and biological properties of thermo-mechanically densified and thermally modified timber using the Vacu3-process*. European Journal of Wood and Wood Products 76: 809-821. <https://doi.org/10.1007/s00107-017-1278-4>
- [67] **Brischke C (2017)** *Interrelationship between static and dynamic strength properties of wood and its structural integrity*. Drvna Industrija 68: 53-60
- [68] **Brischke C, Gellerich A, Militz H, Starck M (2017)** *Performance of coated and uncoated horizontal lap-joint members during 20 years of outdoor exposure*. Wood Research 62: 883-894.
- [69] **Brischke C, Meyer-Veltrup L (2017)** *Durability of wood in ground contact – effects of specimen size*. ProLigno 13: 3-9.
- [70] **Brischke C, Meyer-Veltrup L, Bornemann T (2017)** *Moisture performance and durability of wooden facades and decking during six years of outdoor exposure*. Journal of Building Engineering 13: 207-215.
<https://doi.org/10.1016/j.jobbe.2017.08.004>
- [71] **Brischke C, Meyer-Veltrup L, Goritzka C, Tammen B, Hundhausen U, Mahnert K-C, Gellerich A (2017)** *Rissbildung in Holzbauteilen – Bewertung materialspezifischer Unterschiede und Einfluss auf Holzfeuchte und Oberflächenqualität*. Holztechnologie 58: 5-13.
- [72] **Brischke C, Soetbeer A, Meyer-Veltrup L (2017)** *The minimum moisture threshold for wood decay by basidiomycetes revisited. A review and modified pile experiments with Norway spruce and European beech decayed by Coniophora puteana and Trametes versicolor*. Holzforschung 71: 893-903. <https://doi.org/10.1515/hf-2017-0051>

- [73] **Meyer-Veltrup L, Brischke C, Alfredsen G, Humar M, Flæte P-O, Isaksson T, Larsson Breid P, Westin M, Jermer J (2017)** *The combined effect of wetting ability and durability on outdoor performance of wood – development and verification of a new prediction approach.* Wood Science and Technology 51: 615-637. <https://doi.org/10.1007/s00226-017-0893-x>
- [74] **Otten KA, Brischke C, Meyer C (2017)** *Material moisture content of wood and cement mortars – Electrical resistance-based measurements in the high Ohmic range.* Construction and Building Materials 153: 640-646. <https://doi.org/10.1016/j.conbuildmat.2017.07.090>
- [75] **Ringman R, Pilgård A, Brischke C, Windeisen E, Richter K (2017)** *Incipient brown rot decay in modified wood: Patterns of mass loss, structural integrity, moisture and acetyl content in high resolution.* International Wood Products Journal 8: 172-183. <https://doi.org/10.1080/20426445.2017.1344382>
- [76] **Brischke C, Hanske M (2016)** *Durability of untreated and thermally modified reed (Phragmites australis) against brown, white and soft rot causing fungi.* Industrial Crops and Products 91: 49-55. <https://doi.org/10.1016/j.indcrop.2016.06.031>
- [77] **Brischke C, Jones D (2016)** *Performance of bio-based building products - Recent activities within COST Action FP 1303.* Holztechnologie 57: 47-54
- [78] **Brischke C, Meyer-Veltrup L (2016)** *Modelling wood decay caused by brown rot fungi.* Materials and Structures 49: 3281–3291. <https://doi.org/10.1617/s11527-015-0719-y>
- [79] **Brischke C, Meyer-Veltrup L (2016)** *Performance of thermally modified wood during 14 years outdoor exposure.* International Wood Products Journal 7: 89-95. <https://doi.org/10.1080/20426445.2016.1160591>
- [80] **Meyer L, Brischke C, Preston AF (2016)** *Testing the natural durability of timber exposed above ground – a review on methodology.* Wood Material Science and Engineering 11: 283-304. <https://doi.org/10.1080/17480272.2014.983163>
- [81] **Meyer-Veltrup L, Brischke C (2016)** *Bundle tests – Simple alternatives to standard above ground durability field test methods.* Holztechnologie 57: 26-30
- [82] **Meyer-Veltrup L, Brischke C, Källander B (2016)** *Comparative study on durability and moisture performance of wood using 27 different test methods.* European Journal of Wood and Wood Products 75: 291-304. <https://doi.org/10.1007/s00226-021-01303-8>
- [83] **Ringman R, Pilgård A, Kölle M, Brischke C, Richter K (2016)** *Effects of thermal modification on Postia placenta wood degradation dynamics: measurements of mass loss, structural integrity and gene expression.* Wood Science and Technology 50: 385-397. <https://doi.org/10.1007/s00226-015-0791-z>

- [84] **Brischke C, Borcharding T, Mengel U (2015)** *Subjective sensation of color differences – determination of thresholds in depending on color tones and resolution.* Restoration of Buildings and Monuments 21: 21-27. <https://doi.org/10.1515/rbm-2015-0003>
- [85] **Brischke C, Meyer-Veltrup L (2015)** *Moisture content and decay of differently sized wooden components during 5 years of outdoor exposure.* European Journal of Wood and Wood Products 73: 719-728. <https://doi.org/10.1007/s00107-015-0960-7>
- [86] **Meyer L, Brischke C (2015)** *Fungal decay at different moisture levels of selected European-grown wood species.* International Biodeterioration and Biodegradation 103: 23-29. <https://doi.org/10.1016/j.ibiod.2015.04.009>
- [87] **Meyer L, Brischke C, Kasselmann M (2015)** *Holzfeuchte-Monitoring im Rahmen von Dauerhaftigkeitsprüfungen - Praktische Erfahrungen aus Freilandversuchen.* Holztechnologie 56: 11-19
- [88] **Meyer L, Brischke C, Treu A, Larsson-Brelid P (2015)** *Critical moisture conditions for fungal decay of modified wood by basidiomycetes as detected by pile tests.* Holzforschung 70: 331-339. <https://doi.org/10.1515/hf-2015-0046>
- [89] **Alfredsen G, Gobakken LR, Flæte P-O, Brischke C (2014)** *Faktorer som påvirker levetiden til tre utendørs.* Agarica 34: 11-18
- [90] **Bornemann T, Brischke C, Alfredsen G (2014)** *Decay of wooden commodities - moisture risk analysis, service life prediction and performance assessments in the field.* Wood Material Science and Engineering 9: 144-155. <https://doi.org/10.1080/17480272.2014.904431>
- [91] **Brischke C, Iseler N, Meyer L, Sawyer G (2014)** *Testing the mechanical resistance of timber used for construction in the marine environment.* International Wood Products Journal 5: 39-49. <https://doi.org/10.1179/2042645313Y.0000000050>
- [92] **Brischke C, Lampen SC (2014)** *Resistance based moisture content measurements on native, modified, and preservative treated wood.* European Journal of Wood and Wood Products 72: 289-292. <https://doi.org/10.1007/s00107-013-0775-3>
- [93] **Brischke C, Meyer L, Olberding S (2014)** *Durability of wood exposed in ground – comparative field trials with different soil substrates.* International Biodeterioration and Biodegradation 86: 108-114. <https://doi.org/10.1016/j.ibiod.2013.06.022>
- [94] **Brischke C, Sachse KA, Welzbacher CR (2014)** *Modeling the influence of thermal modification on the electrical conductivity of wood.* Holzforschung 68: 185-193. <https://doi.org/10.1515/hf-2013-0041>
- [95] **Brischke C, Thelandersson S (2014)** *Modelling the outdoor performance of wood products – a review on existing approaches.* Construction and Building Materials 66: 384-397. <https://doi.org/10.1016/j.conbuildmat.2014.05.087>

- [96] **Brischke C, Welzbacher CR, Gellerich A, Bollmus S, Humar M, Plaschkies K, Scheiding W, Alfredsen G, Van Acker J, De Windt I (2014)** *Wood natural durability testing under laboratory conditions – results from a round-robin test*. European Journal of Wood and Wood Products 72: 129-133. <https://doi.org/10.1007/s00107-013-0764-6>
- [97] **Kutnik M, Suttie E, Brischke C (2014)** *European standards on durability and performance of wood and wood-based products – trends and challenges*. Wood Material Science and Engineering 9: 122-133. <https://doi.org/10.1080/17480272.2014.894574>
- [98] **Ringman R, Pilgård A, Brischke C, Richter K (2014)** *Mode of action of brown rot decay resistance in modified wood: A review*. Holzforschung. 68: 239-246. <https://doi.org/10.1515/hf-2013-0057>
- [99] **Brischke C, Meyer L, Alfredsen G, Humar M, Francis L, Flæte P-O, Larsson-Brelid P (2013)** *Natural durability of timber exposed above ground – a survey*. Drvna Industrija 64: 113-129. <https://doi.org/10.5552/drind.2013.1221>
- [100] **Brischke C, Meyer L, Bornemann T (2013)** *The potential of moisture content measurements for testing the durability of timber products*. Wood Science and Technology 47: 869-886. <https://doi.org/10.1007/s00226-013-0548-5>
- [101] **Brischke C, Meyer L, Bornemann T, Bilstein M, Lauenstein B, Lück J-M, Wulf C (2013)** *Service life of timber structures – prognosis based on three years high-frequency monitoring*. European Journal of Wood and Wood Products 71: 79-90. <https://doi.org/10.1007/s00107-012-0640-9>
- [102] **Brischke C, Olberding S, Meyer L, Bornemann T, Welzbacher CR (2013)** *Intra-site variability of fungal decay on wood exposed in ground contact*. International Wood Products Journal 4: 37-44. <https://doi.org/10.1179/2042645312Y.0000000014>
- [103] **Hasan M, Despot R, Trajković J, Rapp AO, Brischke C, Welzbacher CR (2013)** *The Echo (Jeka) Pavilion in Forest-park Maksimir Zagreb - Reconstruction and health monitoring*. Advanced Materials Research 778: 765-770. <https://doi.org/10.4028/www.scientific.net/AMR.778.765>
- [104] **Isaksson T, Brischke C, Thelandersson S (2013)** *Development of decay performance models for outdoor timber structures*. Materials and Structures 46: 1209-1225. <https://doi.org/10.1617/s11527-012-9965-4>
- [105] **Brischke C, Obermeyer C, Mengel U (2011)** *Outdoor performance of artist colours*. Restoration of Buildings and Monuments 17: 91-102. <https://doi.org/10.1515/rbm-2011-6436>
- [106] **Brischke C, Rapp AO (2011)** *Potential impacts of climate change on wood deterioration*. International Wood Products Journal 1: 85-92. <https://doi.org/10.1179/2042645310Y.0000000006>

- [107] **Brischke C, Welzbacher CR, Boeckmann O (2011)** *Critical heat flux densities of various flooring materials for outdoor applications*. European Journal of Wood and Wood Products 70: 199-207. <https://doi.org/10.1007/s00107-011-0543-1>
- [108] **Meyer L, Brischke C, Welzbacher CR (2011)** *Dynamic and static hardness of wood – method development and comparative studies*. International Wood Products Journal 2: 5-11. <https://doi.org/10.1179/2042645311Y.0000000005>
- [109] **Welzbacher CR, Rassam G, Talaei A, Brischke C (2011)** *Microstructure, strength and structural integrity of heat treated beech and spruce wood*. Wood Material Science and Engineering 6: 219-227. <https://doi.org/10.1080/17480272.2011.622411>
- [110] **Brischke C, Rolf-Kiel H (2010)** *Durability of European oak (Quercus spp.) in ground contact – A case study on fence posts in service*. European Journal of Wood and Wood Products 68: 129-137. <https://doi.org/10.1007/s00107-009-0364-7>
- [111] **Welzbacher CR, Brischke C, Rapp AO, Koch S, Hofer S (2009)** *Performance of thermally modified timber (TMT) in outdoor application – Durability, abrasion and optical appearance*. Drvna industrija 60: 75-82

Conference Proceedings

- [112] **Batista DC, dos Santos Silveiras PH, Wentzel M, Brischke C, Militz H (2023)** Influence of closed and open systems on the durability of short-rotation *Eucalyptus grandis* wood against rot-fungi. 11th European TMT Workshop, Dresden, 02-03. March 2023: 44-50.
- [113] **Brischke C (2023)** Gebrauchsdauerplanung von Holzkonstruktionen: Zusammenspiel von Dauerhaftigkeit und Exposition. UBA-Online-Workshop: Einsatzpotenziale von nachhaltigen und dauerhaften Holzprodukten ohne Biozide in Kommunen, 18.01.2023.
- [114] **Alfredsen G, Brischke C, Acquah R, Akkurt T, Flæte PO, Frühwald Hansson E, Gustavsen GW, Hosseini H, Kalamees T, Kers J, Kukk V, Modaresi R, Niklewski J, Sandak A, Sandak J van Niekerk PB (2022)** *Robust and precise LCC of wooden buildings using novel service life prediction tools*. In: Brischke C, Buschalsky A (Eds): Proceedings of the 18th Meeting of the Northern European Network for Wood Science and Engineering (WSE), 21-22 September 2022, Goettingen, Germany: 199-201.
- [115] **Batista DC, Wentzel M, Brischke C, Militz H (2020)** *Impact of process duration on selected physical properties of thermally modified Eucalyptus wood*. 10th European Conference on Wood Modification ECWM, Nancy, France, February 2022: 365-368.

- [116] **Brischke C (2022)** *Gebrauchsdauer von Holzterrassen – Kundenerwartung und Realität*. 8. GD Holz Terrassendielen-Seminar, 29. September 2022, Hamburg.
- [117] **Brischke C (2022)** *Preface*. In: Brischke C, Buschalsky A (Eds) *Proceedings of the 18th Meeting of the Northern European Network for Wood Science and Engineering (WSE)*, 21-22 September 2022, Goettingen, Germany: 3.
- [118] **Brischke C, Acquah R, Akkurt T, Alfredsen G, Flæte P-O, Frühwald Hansson E, Gustavsen GW, Hosseini H, Kalamees T, Kers J, Kukk V, Modaresi R, Niklewski J, Sandak A, Sandak J, van Niekerk PB (2022)** *Enabling robust and precise Life-Cycle-Costing in wood construction by novel methods for service planning – an outline of the 'WoodLCC' project*. WoodRise 2022, 6–9 September 2022 | Portorož, Slovenia.
- [119] **Brischke C, Buschalsky A (Eds) (2022)** *Proceedings of the 18th Meeting of the Northern European Network for Wood Science and Engineering (WSE)*. 21-22 September 2022, Goettingen, Germany: 205 p.
- [120] **Brischke C, Emmerich L (2022)** *Feuchtebeständigkeit holzbasierter Materialien – Prüfmethode, Beitrag zur Dauerhaftigkeit und Implementierung in Normen*. Deutsche Holzschutztagung 12.-13. Mai 2022, Dresden: 212-230.
- [121] **Buschalsky, Brischke C, Klein KC, Kilian T (2022)** *Dauerhaftigkeit von WPC – welche Rolle spielen Feuchte und Alterung?* Deutsche Holzschutztagung 12.-13. Mai 2022, Dresden: 168-184.
- [122] **Emmerich L, Bleckmann M, Strohbush S, Brischke C, Bollmus S, Militz H (2022)** *Growth behaviour and wood degradation of wood-destroying fungi in chemically modified wood*. 10th European Conference on Wood Modification ECWM, Nancy, France, February 2022: 249-256.
- [123] **Emmerich L, Brischke C, Bicke S, Militz H (2022)** *Performance of resin-treated solid wood and laminated veneer lumber (LVL) under marine conditions*. 10th European Conference on Wood Modification ECWM, Nancy, France, February 2022 284-291.
- [124] **Fredriksson M, Thybring EE, Emmerich L, Brischke C (2022)** *Preliminary work on a new method for moisture conditioning of wood for decay tests*. In: Brischke C, Buschalsky A (Eds): *Proceedings of the 18th Meeting of the Northern European Network for Wood Science and Engineering (WSE)* 21-22 September 2022, Goettingen, Germany: 162-164.
- [125] **Frühwald-Hansson E, Brischke C, van Niekerk PB, Niklewski J (2022)** *Durability-Based Design - Software-basierte Gebrauchsdauervorhersage von Holz*. Deutsche Holzschutztagung 12.-13. Mai 2022, Dresden: 232-242.
- [126] **Hirschmüller S, Kovryga A, Unterberger S, Larbig H, Marais BN, Brischke C, van de Kuilen J-W, Krey A (2022)** *Laminated veneer lumber made from cement-impregnated veneers*. 10th European Conference on Wood Modification ECWM, Nancy, France, February 2022: 108-111.

- [127] **Hirschmüller S, Krey A, Bösing J, Larbig H, Brischke C, Marais BN (2022)** *Holzschutz mit Zement*. Deutsche Holzschutztagung 12.-13. Mai 2022, Dresden: 80-92.
- [128] **Marais BN, Kovacs S, Jansen M, Brischke C (2022)** *Dauerhaftigkeit im Erdkontakt – Einfluss von Feuchte, Temperatur und biologischer Bodenaktivität*. Deutsche Holzschutztagung 12.-13. Mai 2022, Dresden: 148-168.
- [129] **Marais BN, Kovacs S, Jansen M, Brischke C (2022)** *Studies into the effect of soil type and soil layer on the in-ground decay of European beech*. The International Research Group on Wood Protection, IRG/WP/22-20681.
- [130] **Rabke JJ, Brischke C, Alfredsen G, van Niekerk PB (2022)** *Survey of timber structures - Validation studies of a service life prediction tool*. In: Brischke C, Buschalsky A (Eds): Proceedings of the 18th Meeting of the Northern European Network for Wood Science and Engineering (WSE), 21-22 September 2022, Goettingen, Germany: 102-104.
- [131] **van Niekerk PB, Schönauer M, Marais BN, Brischke C (2022)** *Using remotely-sensed soil hydrology data to model the decay risk of in-ground timber*. The International Research Group on Wood Protection, IRG/WP/22-20689.
- [132] **Brischke C, Blank A, Bollmus S, Emmerich L, Meinhard H, Vor T (2021)** *Metasequoia glyptostroboides und Chamaecyparis lawsoniana - Holztechnologische Bewertung zweier fremdländischer in Deutschland gewachsener Nadelhölzer*. Forstwissenschaftliche Tagung 2021, Freising, 13- 15 September 2021, Professur für Waldinventur und nachhaltige Nutzung, Technische Universität München, No. 22-005: 242
- [133] **Brischke C, Bollmus S, Braun M, Emmerich L (2021)** *Foil storage for conservation of beetle-infested spruce logs – a feasibility study*. In: Laureckienė G (Ed): Proceedings of the 17th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE), 14-15 October 2021, Kaunas, Lithuania: 79-81.
- [134] **Emmerich L, Brischke C, Bicke S, Militz H (2021)** *Performance of resin-treated solid wood and laminated veneer lumber (LVL) under marine conditions*. The International Research Group on Wood Protection, IRG/WP/21-10973.
- [135] **Marais BN, van Niekerk PB, Niklewski J, Brischke C, Militz H (2021)** *Mapping the present and future fungal decay hazard of aboveground wood in Europe*. In: Laureckienė G (Ed): Proceedings of the 17th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE), 14-15 October 2021, Kaunas, Lithuania: 60-62.
- [136] **van Niekerk PB, Brischke C, Rabke JJ, Simmering C, Tausendfreund LM (2021)** *Evaluation of splash water contact scenarios on wooden cladding and its influence on the moisture-induced risk of decay*. In: Laureckienė G (Ed): Proceedings of the 17th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE), 14-15 October 2021, Kaunas, Lithuania: 49-51.

- [137] **Bollmus S, Brischke C, Van Niekerk PB (2020)** *Impact of fungal decay on elasto-mechanical properties of wood during bending*. The International Research Group on Wood Protection, IRG/WP/20-20671.
- [138] **Brischke C, Alfredsen G (2020)** *Modelling the material resistance of wood - an approach for meta-analysis of durability test data*. In: Sipi M, Rikala J (Eds) Proceedings of the 16th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE), 01-02 December 2020, Helsinki, Finland: 95-97.
- [139] **Brischke C, Emmerich L, Nienaber DGB, Bollmus S (2020)** *Comparative studies on the durability of sapling wood*. The International Research Group on Wood Protection, IRG/WP/20-10967.
- [140] **Brischke C, Grünwald LK, Bollmus S (2020)** *The role of specimen format in wood durability testing*. The International Research Group on Wood Protection, IRG/WP/20-206772.
- [141] **Francis L, Morrell JJ, Brischke C, Van Niekerk PB (2020)** *Modelling decay rates of timber exposed above ground on four different continents*. The International Research Group on Wood Protection, IRG/WP/20-20670.
- [142] **Hirschmüller S, Marais B, Brischke C, Krey A, Bösing J (2020)** *Wood protection with cement – Part 1: Coating matters and durability of cement coated wood*. The International Research Group on Wood Protection, IRG/WP/20-40911.
- [143] **Scheiding W, Jacobs K, Bollmus S, Brischke C (2020)** *Durability classification of treated and modified wood – approaching a guideline for sampling, testing, and statistical analysis*. The International Research Group on Wood Protection, IRG/WP/20-20676.
- [144] **Starck M, Brischke C, Heidel A, Militz H (2020)** *Dual impregnation and mechanical pre-treatments of beech railway sleepers – Summary of findings*. The International Research Group on Wood Protection, IRG/WP/20-40896.
- [145] **Suttie E, Brischke C, Frühwald Hansson E, Fortino S, Sandak J, Kutnik M, Alfredsen G, Lucas C, Vieillemaud E (2020)** *Performance Based Specification of Wood–Project CLICKdesign*. In: Serrat C, Casas JR, Gibert V (Eds) Proceedings Current Topics and Trends on Durability of Building Materials and Components. Proceedings of the XV edition of the International Conference on Durability of Building Materials and Components (DBMC 2020) Barcelona, Spain, 20 – 23 October 2020: 457-464.
- [146] **Bollmus S, Bächle L, Militz H, Brischke C (2019)** *Durability classification of preservative treated and modified wood*. The International Research Group on Wood Protection, IRG/WP/19-20659.

- [147] **Bollmus S, Bächle L, Militz H, Brischke C (2019)** *Dauerhaftigkeitsklassifizierung von schutzmittelbehandeltem und chemisch modifiziertem Holz*. In: Deutsche Holzschutztagung, 04-05 April 2019, Dresden: 270-293.
- [148] **Brischke C (2019)** *Durability-based design with timber*. In: Branco JM, Poletti E, Sousa HS (Eds) 5th International Conference on Structural Health Assessment of Timber Structures, 25-27 September 2019, Guimarães, Portugal: 10-19.
- [149] **Brischke C, Niklewski J, Humar M, Alfredsen G (2019)** *Service life prediction: Mathematical models versus professional experience*. The International Research Group on Wood Protection, IRG/WP/19-20663.
- [150] **Brischke C, Niklewski J, Humar M, Alfredsen G (2019)** *Modelle zur Vorhersage der Gebrauchsdauer von Holzbauteilen auf dem Prüfstand*. In: Deutsche Holzschutztagung, 04-05 April 2019, Dresden: 76-99.
- [151] **Brischke C, Selter V (2019)** *Mapping the decay hazard of wooden structures in topographically divergent regions*. In: Fredriksson M (Ed) Proceedings of the 15th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE), 9-10 October 2019, Lund, Sweden: 98-100.
- [152] **Brischke C, Sharapov E, Bicke S, Militz H, Steeg J, Smirnova E (2019)** *Quantitative detection of fungal decay by drilling resistance measurements in solid wood and laminated veneer lumber*. In: Branco JM, Poletti E, Sousa HS (Eds): 5th International Conference on Structural Health Assessment of Timber Structures, 25-27 September 2019, Guimarães, Portugal: 495-503.
- [153] **Brischke C, Wegener FL (2019)** *Impact of water holding capacity and moisture content of soil substrates on the wood moisture content in terrestrial microcosms*. The International Research Group on Wood Protection, IRG/WP/19-20662.
- [154] **Emmerich L, Brischke C (2019)** *Quantifying the effect of microclimatic parameters on the moisture-induced decay risk of wooden structures*. The International Research Group on Wood Protection, IRG/WP/19-20649.
- [155] **Emmerich L, Strohbusch S, Bleckmann M, Bollmus S, Brischke C, Militz H (2019)** *On the capability of wood-destroying fungi to grow through chemically modified wood and cause subsequent decay*. The International Research Group on Wood Protection, IRG/WP/19-40858.
- [156] **Humar M, Kržišnik D, Lesar B, Brischke C (2019)** *Performance of wood decking after 5 years of exposure: verification of the combined effect of wetting ability and durability*. The International Research Group on Wood Protection, IRG/WP/19-20647.

- [157] **Latorre F, Abbott B, Brischke C, Humar M, Jones D, Larnøy E, Nunes L, Preston AF, Singh T (2019)** *Knowledge exchange and transfer from academia to industry in the field of wood protection research – Activities of the IRG-WP Communications Committee*. The International Research Group on Wood Protection, IRG/WP/19-50354.
- [158] **Lloyd J, Taylor A, Brischke C, Irby N, Mannings M (2019)** *Protecting Sustainable Wood Infrastructure - Improving the Performance of Poles, Piles, Ties & Timbers with Dual Treatments*. The International Research Group on Wood Protection, IRG/WP/19-30735.
- [159] **Marais B, Brischke C, Peters J (2019)** *Studies on the durability of European Beech wood in ground contact: understanding the effect of biotic and abiotic factors*. In: Fredriksson M (Ed) Proceedings of the 15th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE), 9-10 October 2019, Lund, Sweden: 95-97.
- [160] **Sharapov E, Brischke C, Bicke S, Militz H, Smirnova E, Herbener J (2019)** *Predicting Wood Properties with Drilling Resistance Measurements at Different Speeds and Directions of Drilling*. In: Wang X, Sauter UH, Ross RJ (Eds) Proceedings: 21st International Nondestructive Testing and Evaluation of Wood Symposium. General Technical Report FPL-GTR-272. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory: 706.
- [161] **Starck M, Heidel A, Brischke C, Militz H (2019)** *Imprägnierung von Bahnschwellen – Untersuchung einer Systemschwelle als Alternative zur Kreosotschwelle*. In: Deutsche Holzschutztagung, 04-05 April 2019, Dresden: 308-327.
- [162] **Strohbusch S, Brischke C, Bollmus S, Emmerich L, Militz H (2019)** *Untersuchung zum Vermögen holzerstörender Pilze, chemisch modifiziertes Holz zu durchwachsen*. In: Deutsche Holzschutztagung, 04-05 April 2019, Dresden: 128-145.
- [163] **Suttie E, Brischke C, Frühwald Hansson E, Fortino S, Sandak J, Kutnik M, Alfredsen G, Lucas C, Stirling R (2019)** *Performance based specification of wood – Introducing project CLICKdesign*. The International Research Group on Wood Protection, IRG/WP/19-20661.
- [164] **Van Niekerk PB, Brischke C (2019)** *Digital transformation of biological processes and building design theory - an approach to facilitation of software design for service-life planning of timber elements*. In: Fredriksson M (Ed) Proceedings of the 15th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE), 9-10 October 2019, Lund, Sweden: 31-33.
- [165] **Bicke S, Brischke C, Biziks V, Militz H (2018)** *Resistance of PF-treated LVL from European beech (Fagus sylvatica) exposed in ground*. 14th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE) 2018 Tallinn, Estonia: 37-41.

- [166] **Brischke C (2018)** *Gebrauchsdauer-Vorhersage von Holz-Terrassen – Einflussfaktoren auf die Lebensdauer von Holzkonstruktionen*. 6. GD Holz Terrassendielen-Seminar, 22 February 2018, Hamburg: 41-77.
- [167] **Brischke C (2018)** *Bemessung von Holzschutzmaßnahmen zur Ermittlung der Gebrauchsdauer von Holzbauteilen*. Sachverständigenseminar des Landesinnungsverbands des Bayerischen Zimmererhandwerks, 09 November 2018, Bad Aibling
- [168] **Brischke C, Alfredsen G, Bollmus S, Humar M, Jones D, Meyer-Veltrup L, Nunes L (2018)** *Enhancing knowledge transfer in the wood protection sector*. The International Research Group on Wood Protection, IRG/WP/18-50338.
- [169] **Brischke C, Gellerich A, Militz H (2018)** *Testing the durability of timber products above ground using the block-test method – A critical review*. The International Research Group on Wood Protection, IRG/WP/18-20637.
- [170] **Brischke C, Gellerich A, Klüppel A, Militz H (2018)** Performance of chemically modified wood under marine conditions during nine years of exposure. ECWM 9, Wageningen.
- [171] **Brischke C, Homann P, Gellerich A (2018)** *Impact of sapwood portions on the durability of adjacent Pinus sylvestris, Pseudotsuga menziesii and Quercus robur heartwood*. The International Research Group on Wood Protection, IRG/WP/18-10922.
- [172] **Bollmus S, Gellerich A, Brischke C, Militz H (2018)** *Towards durability classification of preservative treated wood – first attempts using different European standards*. The International Research Group on Wood Protection, IRG/WP/18-20638.
- [173] **Emmerich L, Militz H, Brischke C (2018)** *Long-term performance of DMDHEU-treated wood exposed in ground, above ground and in the marine environment*. The International Research Group on Wood Protection, IRG/WP/18-40825.
- [174] **Brischke C, Stricker S, Emmerich L, Meyer-Veltrup L (2018)** *How fungal decay affects electrical wood moisture content measurements*. 14th Annual Meeting of the Northern European Network on Wood Science and Engineering (WSE) 2018 Tallinn, Estonia: 10-12.
- [175] **Treu A, Zimmer K, Brischke C, Larnøy E, Gobakken LR, Aloui F, Cragg SM, Flæte P-O, Humar M, Westin M (2018)** *Hibernation or spring awakening? – The research on wood durability and protection in marine environment*. The International Research Group on Wood Protection, IRG/WP/18-10929.
- [176] **Wentzel M, Brischke C, Militz H (2018)** *Dynamic and static mechanical properties of thermally modified Eucalyptus nitens in an open and closed reactor system*. ECWM 9, Wageningen

- [177] **Wentzel M, González-Prieto Ó, Brischke C, Militz H (2018)** *Thermally modified Eucalyptus nitens as material for decking*. Thermoholz-Workshop Dresden 2018.
- [178] **Alfredsen G, Brischke C, Meyer-Veltrup L, Humar M, Flæte P-O (2017)** *The effect of different test methods on durability classification of modified wood*. International Conference “Wood Science and Engineering in the Third Millennium” – ICWSE 2017, Brasov, Romania, 02 – 04 November 2017.
- [179] **Brischke C (2017)** *Dauerhaftigkeit von Holz in der nationalen und europäischen Normung – Neue Entwicklungen und Tendenzen*. In: BuFAS e.V. (Eds.): *Altbauanierung 12 – Erfolgreich sanieren – normativ oder sachverständig?* 28. Hanseatische Sanierungstage, 02-04 November 2017, Heringsdorf/Usedom. Beuth, Berlin; Fraunhofer IRB, Stuttgart: 89-104.
- [180] **Brischke C, Frühwald Hansson E, Kavurmaci D, Niklewski J (2017)** *Design and service life prediction concept for timber structures - Part 2: Climate effects*. XIV Conference on Durability of Building Materials and Components, Ghent, Belgium.
- [181] **Brischke C, Frühwald Hansson E, Meyer-Veltrup L, Thelandersson S, Isaksson T, Niklewski J (2017)** *Design and service life prediction concept for timber structures - Part 1: A factorization approach based on dose-response models*. XIV Conference on Durability of Building Materials and Components, Ghent, Belgium.
- [182] **Brischke C, Meyer-Veltrup L, Niklewski J, Thelandersson S (2017)** *A factorization approach for design and service life prediction of timber bridges*. In: Engelund Thybring E (Ed) *Proceedings of the 13th annual meeting of the Northern European Network for Wood Science and Engineering (WSE2017)* September 28-29, 2017, Copenhagen, Denmark: 73-78.
- [183] **Brischke C, Soetbeer A, Meyer-Veltrup L (2017)** *Moisture requirements of wood decay fungi – Review on methods, thresholds and experimental limitations*. COST Action FP 1303 Final Workshop on ‘Building with bio-based materials: Best practice and performance specification’. 06-07 September 2017, Zagreb, Croatia.
- [184] **Frühwald Hansson E, Brischke C (2017)** *Durability-based design of timber structures – Guidelines for architects and planners*. COST Action FP 1303 Final Workshop on ‘Building with bio-based materials: Best practice and performance specification’. 06-07 September 2017, Zagreb, Croatia.
- [185] **Gellerich A, Emmerich L, Brischke C, Meyer-Veltrup L (2017)** *Evaluation of surface cracks on wood – physical assessment versus subjective sensation*. The International Research Group on Wood Protection, IRG/WP/17-20617.
- [186] **Jones D, Brischke C (2017)** *Developments within the COST Action FP1303 related to bio-based composite materials*. International Panel Product Symposium. 04-05 October 2017, Llandudno, Wales.

- [187] **Lloyd J, Brischke C, Bennett R, Taylor A (2017)** *Dual Borate and Copper Naphthenate Treatment of Bridge Timbers: Potential Performance Enhancements and Cost Savings*. The International Research Group on Wood Protection, IRG/WP/17-40797.
- [188] **Meyer-Veltrup L, Brischke C (2017)** *Durability-based design of timber structures – Quantifying design, exposure, and resistance on the basis of dose-response relationships*. COST Action FP 1303 Workshop on ‘Design, application and aesthetics of bio-based building materials 28 February – 01 March 2017, Sofia, Bulgaria.
- [189] **Meyer-Veltrup L, Brischke C, Niklewski J, Thelandersson S (2017)** *Design and performance prediction of timber structures based on a factorization approach*. The International Research Group on Wood Protection, IRG/WP/17-20603.
- [190] **Niklewski J, Brischke C, Frühwald Hansson E, Meyer-Veltrup L (2017)** *Modelling of moisture content in timber bridge details*. The International Research Group on Wood Protection, IRG/WP/17-20613.
- [191] **Nunes N, Abbott B, Brischke C, Howick D, Humar M, Larnøy E, Latorre FJ, Preston AF, Singh T (2017)** *Knowledge exchange and transfer from academia to industry in the field of wood protection research – Activities of the IRG-WP Communication Committee*. COST Action FP 1303 Final Workshop on ‘Building with bio-based materials: Best practice and performance specification’. 06-07 September 2017, Zagreb, Croatia.
- [192] **Otten KA, Brischke C, Littmann K, Lüttge S (2017)** *Untersuchung zur Eignung von Prüfmethode zur Bestimmung des Verschleißwiderstandes*. 9. Industriebodenkolloquium, Esslingen.
- [193] **Otten KA, Brischke C, Littmann K, Meyer C (2017)** *Materialfeuchtemessung an hydrophobierten und unbehandeltem Mörtel*. 5. Kolloquium Erhaltung von Bauwerken, 24-25 January 2017, Esslingen: 313-318.
- [194] **Stirling R, Brischke C, Meyer-Veltrup L, Morris P (2017)** *Prediction of decay rate in above-ground field tests from physical configurations*. IUFRO Division 5 Meeting. Vancouver, Canada.
- [195] **Ugovšek A, Šubic B, Starman J, Rep G, Humar M, Lesar B, Thaler N, Brischke C, Meyer-Veltrup L, Jones D, Häggström U, Lozano JI (2017)** *Performance of wooden windows and façade elements in different natural environments*. COST Action FP 1303 Final Workshop on ‘Building with bio-based materials: Best practice and performance specification’. 06-07 September 2017, Zagreb, Croatia.
- [196] **Wehsener J, Brischke C, Meyer-Veltrup L, Haller P (2017)** *Mechanical properties of densified and thermally modified timber*. 3rd COST Action FP 1407 Conference “Wood modification research and applications”. 14-15 September 2017, Kuchl/Salzburg, Austria.

- [197] **Alfredsen G, Brischke C, Flæte P-O, Humar M, Meyer-Veltrup L (2016)** *On the effect of climate and exposure conditions on durability indicators and their potential for service life prediction of wood-based products*. The International Research Group on Wood Protection, IRG/WP/16-20576.
- [198] **Bongers F, Brischke C, Van den Bulcke J, De Windt I, Militz H, Van Acker J (2016)** *Evaluation of field test data*. The International Research Group on Wood Protection, IRG/WP/16-20594.
- [199] **Brischke C (2016)** *Design guidance for timber structures based on long-term field monitoring*. 27th International Conference on Wood Science and Technology. Implementation of Wood Science in Woodworking Sector. Zagreb, October 2016: 15-22.
- [200] **Brischke C (2016)** *Modelling the performance of bio-based building materials*. The International Research Group on Wood Protection, IRG/WP/16-20582.
- [201] **Brischke C, Meyer-Veltrup L, Hundhausen U, Goritzka C, Tammen B, Gellerich A (2016)** *Rissbildung in Holzbauteilen - materialspezifische Unterschiede und ihr Einfluss auf Holzfeuchte und Dauerhaftigkeit*. Deutsche Holzschutztagung [German Wood Protection Conference] 22-23 September 2016, Dresden, Germany: 95-117.
- [202] **Brischke C, Meyer-Veltrup L (2016)** *Bundle tests – Simple alternatives to standard above ground field test methods*. The International Research Group on Wood Protection, IRG/WP/16-20581.
- [203] **Brischke C, Meyer C, Otten KA (2016)** *Wood moisture content measurements based on electrical resistance in the giga-ohm range*. Proceedings of the 12th Meeting of the Northern European Network on Wood Science and Engineering, 12-13 September 2016, Riga, Latvia.
- [204] **Hesse C, Humar M, Brischke C, Meyer-Veltrup L (2016)** *Comparative studies on the material resistance and moisture performance of four lesser utilized European grown wood species*. COST Action FP 1303 5th Conference ‘Hygrothermal performance of buildings’. 30-31 August 2016, Poznan, Poland.
- [205] **Janus M, Cragg S, Brischke C, Meyer-Veltrup L, Wehsener J (2016)** *Laboratory screening of thermo-mechanically densified and thermally modified timbers for resistance to the marine borer *Limnoria quadripunctata**. COST Action FP 1303 5th Conference ‘Hygrothermal performance of buildings’. 30-31 August 2016, Poznan, Poland.
- [206] **Niklewski J, Frühwald-Hansson E, Brischke C, Kavurmaci D (2016)** *Development of decay hazard maps based on decay prediction models*. The International Research Group on Wood Protection, IRG/WP/16-20588.

- [207] **Meyer-Veltrup L, Brischke C (2016)** *Bestimmung der Dauerhaftigkeit von Holz im Freiland - Methoden und Bewertungsverfahren weltweit*. Deutsche Holzschutztagung [German Wood Protection Conference] 22-23 September 2016, Dresden, Germany: 75-93.
- [208] **Meyer-Veltrup L, Brischke C (2016)** *Moisture induced risk and fungal development in various in and above ground field test methods*. The International Research Group on Wood Protection, IRG/WP/16-20577.
- [209] **Meyer-Veltrup L, Brischke C, Goritzka C, Hundhausen U (2016)** *Formation of cracks in wooden elements – design, moisture and durability aspects*. COST Action FP 1303 4th Conference ‘Designing with bio-based building materials – challenges and opportunities’. 24-25 February 2016, Madrid, Spain.
- [210] **Stirling R, Alfredsen G, Brischke C, De Windt I, Francis LP, Frühwald Hansson E, Humar M, Jermer J, Klamer M, Kutnik M, Laks PE, Le Bayon I, Metsä-Kortelainen S, Meyer-Veltrup L, Morris PI, Norton J, Singh T, Van Acker J, Van den Bulcke J, Venås TM, Viitanen H, Wong AHH (2016)** *Global survey on durability variation – on the effect of the reference species*. The International Research Group on Wood Protection, IRG/WP/16-20573.
- [211] **Tubli P, Kallakas H, Kers J, Brischke C, Humar M, Jones D (2016)** *Impregnated wood performance in outdoor use*. Proceedings of the 12th Meeting of the Northern European Network on Wood Science and Engineering, 12-13 September 2016, Riga, Latvia.
- [212] **Ugovšek A, Šubic B, Rep G, Humar M, Lesar B, Thaler N, Brischke C, Jones D, Lozano JI (2016)** *Performance of windows made of thermally and non- modified Norway spruce (Picea abies L.) in different climatic conditions*. COST FP 1303 Workshop, 24-25 February 2016, Madrid, Spain.
- [213] **Ugovšek A, Šubic B, Rep G, Humar M, Lesar B, Thaler N, Brischke C, Jones D, Lozano JI (2016)** *Performance of windows and facade elements made of thermally modified Norway spruce (Picea abies L.) in different climatic conditions*. World Congress on Timber Engineering, 22-25 August 2016, Vienna, Austria.
- [214] **Wehsener J, Brischke C, Hartig J, Meyer-Veltrup L, Haller P (2016)** *Thermally and thermo-mechanically treated wood for outdoor applications – bending strength, structural integrity and set recovery*. World Congress on Timber Engineering. 22-25 August 2016, Vienna, Austria.
- [215] **Zimmer K, Brischke C (2016)** *Within species variation of structural integrity – a test on 204 Scots pine trees from Northern Europe*. Proceedings of the 12th Meeting of the Northern European Network on Wood Science and Engineering, 12-13 September 2016, Riga, Latvia.

- [216] **Brischke C, Alfredsen G, Flæte P-O, Humar M, Isaksson T, Meyer L (2015)** *The combined effect of wetting ability and durability on field performance – verification of a new prediction approach*. The International Research Group on Wood Protection, IRG/WP/15-20565.
- [217] **Brischke C, Bornemann T, Rapp AO (2015)** *Deterioration of thatched roofs – moisture and temperature monitoring in a cold roof museum*. COST Action FP 1303 Workshop, March 04-05th 2015, Tallinn, Estonia.
- [218] **Brischke C, Kaudewitz P (2015)** *Acceptance levels of surface disfigurement - Tolerance to defects of coated wood*. The International Research Group on Wood Protection, IRG/WP/15-20564.
- [219] **Brischke C, Meyer-Veltrup L, Thelandersson S, Malo KA (2015)** *Wood protection by design – concepts for durable timber bridges*. In: Perdoch W, Broda M (Eds) *Proceedings of the 11th Meeting of the Northern European Network on Wood Science and Engineering*, 13-14th September 2015, Poznan, Poland: 156-162.
- [220] **Brischke C, Meyer-Veltrup L, Welzbacher CR (2015)** *Performance of thermally modified wood during 14 years outdoor exposure*. In: Hughes M, Rautkari L, Ulmonen T, Militz H, Junge B (Eds) *Proceedings of the 8th European Conference on Wood Modification*, 26-27th October 2015, Helsinki, Finland: 427-435.
- [221] **Humar M, Kržišnik D, Brischke C (2015)** *The effect of preservative treatment on mechanical strength and structural integrity of wood*. The International Research Group on Wood Protection, IRG/WP/15-30667.
- [222] **Meyer L, Brischke C (2015)** *Interpretation of moisture monitoring data - Relevance of moisture content thresholds for fungal decay*. The International Research Group on Wood Protection, IRG/WP/15-10839.
- [223] **Meyer L, Brischke C, Maier G, Jacobs K (2015)** *Using isolates of decay fungi from field test samples for durability tests under laboratory conditions*. COST Action FP 1303 Workshop, March 04-05th 2015, Tallinn, Estonia.
- [224] **Bornemann T, Brischke C, Alfredsen G, Humar M, Lorenzo D, Larsson-Brelid P (2014)** *Impact of different European local climate conditions on the moisture performance of wooden commodities*. International Conference on Durability of Building Materials and Components DBMC, September 2nd-5th 2014, Sao Paulo, Brazil.
- [225] **Brischke C (2014)** *Agents affecting the structural integrity of wood*. In: Wilson P (Ed) *Proceedings of the 10th Meeting of the Northern European Network on Wood Science and Engineering*, October 13-14th 2014, Edinburgh, UK.
- [226] **Brischke C, Grote A, Rapp AO (2014)** *Thermal modification of reed (Phragmites communis)*. COST Action FP 1303 Conference, October 23-24th 2014, Kranjska Gora, Slovenia.

- [227] **Brischke C, Hesse C, Meyer L, Bardage S, Jermer J, Isaksson T (2014)** *Moisture dynamics of wood – An approach to implement the wetting ability of wood into durability classification*. The International Research Group on Wood Protection, IRG/WP/14-20557.
- [228] **Brischke C, Meyer L, Hesse C, Van Acker J, De Windt I, Van den Bulcke J, Conti E, Humar M, Viitanen H, Kutnik M, Malassenet L (2014)** *Moisture dynamics of wood and wood-based products – Results from an inter-laboratory test*. The International Research Group on Wood Protection, IRG/WP/14-20539.
- [229] **Brischke C, Meyer L, Humar M, Alfredsen G (2014)** *A platform for exchange of performance data – the IRG-WP Durability Database*. In: Kutnar A, Humar M, Burnard M, Žlahtič M, Jones D (Eds) First COST Action FP 1303 International Conference, Kranjska Gora, Slovenia, 23-24 October 2014: 48-49.
- [230] **Brischke C, Meyer L, Jermer J, Suttie E (2014)** *Gebrauchsdauerplanung und leistungsorientierte Klassifizierung von Holzprodukten [Service life planning and performance-based classification of wood products]*. Deutsche Holzschutztagung, September 18-19th 2014, Brunswick, Germany.
- [231] **Brischke C, Meyer L, Suttie E (2014)** *Towards performance based durability standards for wood in construction – Part 2: Considering moisture risks in wooden components*. International Conference on Durability of Building Materials and Components DBMC, September 2nd-5th 2014, Sao Paulo, Brazil.
- [232] **Brischke C, Militz H (2014)** *Ongoing R&D projects in COST member countries – National report Germany*. Proceedings of COST FP 1303 Workshop, January 27-28th 2014, Paris, France.
- [233] **Brischke C, Suttie E, Englund F, Heisel E, Jermer J, Lorenzo D, Poláček M, Thelandersson S, Van Acker J (2014)** *Towards performance based durability standards for wood in construction – Part 1: Delivering customer service life needs*. International Conference on Durability of Building Materials and Components DBMC, September 2nd-5th 2014, Sao Paulo, Brazil.
- [234] **Humar M, Brischke C, Meyer L, Jones D (2014)** *Proposal for FP 1303 – Performance Round Robin test*. Proceedings of COST FP 1303 Workshop, January 27-28 2014, Paris, France.
- [235] **Humar M, Brischke C, Meyer L, Jones D, Thaler N, Lesar B, Žlahtič M (2014)** *COST FP 1303 Cooperative Performance Test - Status update*. In: Kutnar A, Humar M, Burnard M, Žlahtič M, Jones D (Eds) First COST Action FP 1303 International Conference, Kranjska Gora, Slovenia, 23-24 October 2014: 45-47.
- [236] **Jones D, Brischke C, Meyer L, Suttie E (2014)** *Moisture risk and wood durability testing for modified wood*. 7th European Conference on Wood Modification ECWM, March 10-12th 2014, Lisbon, Portugal.

- [237] **Meyer L, Brischke C (2014)** *Moisture performance testing of wood based materials in the field*. Proceedings of COST FP 1303 Workshop, January 27-28th 2014, Paris, France.
- [238] **Meyer L, Brischke C, Treu A, Larsson-Brelid P (2014)** *Critical moisture conditions for basidiomycetes to colonize and degrade modified wood*. In: Wilson P (Ed) Proceedings of the 10th Meeting of the Northern European Network on Wood Science and Engineering, October 13-14th 2014, Edinburgh, UK.
- [239] **Meyer L, Brischke C, Kasselmann M, Roesmann C (2014)** *Moisture performance testing of wood – Practical experiences*. The International Research Group on Wood Protection, IRG/WP/14-20546.
- [240] **Soetbeer A, Meyer L, Brischke C, Larsson-Brelid P, Jermer J (2014)** *In-ground durability of wood-based products – Comparative assessment of graveyard field tests and terrestrial microcosms*. The International Research Group on Wood Protection, IRG/WP/14-20538.
- [241] **Suttie E, Brischke C, Englund F, Heisel E, Thelandersson S, Van Acker J (2014)** *How will modified wood fit in performance standards for wood in construction? 7th European Conference on Wood Modification ECWM, March 10-12th 2014, Lisbon, Portugal.*
- [242] **Suttie E, Brischke C, Meyer L, Van Acker J, Kutnik M, Heisel E, Englund F, Jermer J, Thelandersson S, Poláček M, Lorenzo D (2014)** *Performance classification of wood in construction – drafting a user friendly European standard*. The International Research Group on Wood Protection, IRG/WP/14-20545.
- [243] **Thaler N, Humar M, Brischke C (2014)** *Changes of mechanical and chemical properties of wood during above ground outdoor exposure*. The International Research Group on Wood Protection, IRG/WP/14-20550.
- [244] **Bornemann T, Brischke C, Alfredsen G (2013)** *Climatic impacts on the moisture performance of wooden decking and facades*. The International Research Group on Wood Protection, IRG/WP/13-20518.
- [245] **Bornemann T, Brischke C, Alfredsen G (2013)** *Decay of wooden commodities - moisture risk analysis, service life prediction and performance assessments in the field*. International Conference on Biodeterioration of Wood and Wood Products, April 24-27th 2013, Tartu, Estonia.
- [246] **Bornemann T, Brischke C, Alfredsen G, Larsson-Brelid P, Humar M (2013)** *Moisture performance of wooden decks and claddings exposed at different locations in Europe*. In: Brischke C, Meyer L (Eds) Proceedings of the 9th Meeting of the Northern European Network on Wood Science and Engineering, September 11-12th 2013, Hannover, Germany: 265.

- [247] **Brischke C (2013)** *Dauerhaftigkeit von Holz und Holzschutz – neue Tendenzen in Forschung und Normung*. In: Beiträge zum 13. Holzbauforum ‚Praktische und Innovative Lösungskonzepte aus der Normung‘, Leipzig. Beuth Verlag, Berlin.
- [248] **Brischke C (2013)** *Modelle zur Gebrauchsdauervorhersage von Holz*. In: Holzforschung Austria (Ed) Proceedings Wiener Holzschutztage, November 28-29th 2013, Vienna, Austria: 45-65.
- [249] **Brischke C, Grüne K (2013)** *Wood decay on wooden window joinery - Case study on a residential establishment*. In: Brischke C, Meyer L (Eds) Proceedings of the 9th Meeting of the Northern European Network on Wood Science and Engineering, September 11-12th 2013, Hannover, Germany: 266.
- [250] **Brischke C, Janßen T (2013)** *Wood decay on wooden window joinery - Case study on two casern buildings*. In: Brischke C, Meyer L (Eds) Proceedings of the 9th Meeting of the Northern European Network on Wood Science and Engineering, September 11-12th 2013, Hannover, Germany: 267.
- [251] **Brischke C, Meyer L, Olberding S (2013)** *Durability of wood exposed in ground – comparative field trials with different soil substrates*. International Conference on Biodeterioration of Wood and Wood Products, April 24-27th 2013, Tartu, Estonia.
- [252] **Brischke C, Welzbacher CR, Gellerich A, Bollmus S, Humar M, Plaschkies K, Scheiding W, Alfredsen G, Van Acker J, De Windt I (2013)** *Determination of the natural durability of solid wood against wood-destroying fungi – a European round robin test*. The International Research Group on Wood Protection, IRG/WP/13-20511.
- [253] **De Windt I, Van den Bulcke J, Brischke C, Welzbacher CR, Gellerich A, Bollmus S, Humar M, Plaschkies K, Scheiding W, Alfredsen G, Van Acker J (2013)** *Statistical analysis of durability tests - Part 1: Principles of distribution fitting and application on laboratory tests*. The International Research Group on Wood Protection, IRG/WP/13-20504.
- [254] **Jones D, Bardage S, Brischke C (2013)** *Introduction to COST Action FP 1303: Performance of bio-based building materials*. In: Brischke C, Meyer L (Eds) Proceedings of the 9th Meeting of the Northern European Network on Wood Science and Engineering, September 11-12th 2013, Hannover, Germany: 50-55.
- [255] **Meyer L, Brischke C, Elsholz K, Jacobs K, Scholz ALJ (2013)** *Laboratory resistance tests using fungi isolated from field samples*. In: Brischke C, Meyer L (Eds) Proceedings of the 9th Meeting of the Northern European Network on Wood Science and Engineering, September 11-12th 2013, Hannover, Germany: 280.
- [256] **Meyer L, Brischke C, Rieken J (2013)** *Testing wood durability in 27 differently severe above-ground exposure conditions*. The International Research Group on Wood Protection, IRG/WP/13-20517.

- [257] **Pilgård A, Brischke C, Meyer L (2013)** *Relevance of natural pre-weathering for laboratory decay tests with native, modified, and preservative treated wood*. The International Research Group on Wood Protection, IRG/WP/13-20522.
- [258] **Sachse K, Brischke C, Welzbacher CR (2013)** *Resistance-based moisture content measurements on thermally modified timber (TMT)*. In: Brischke C, Meyer L (Eds) *Proceedings of the 9th Meeting of the Northern European Network on Wood Science and Engineering*, September 11-12th 2013, Hannover, Germany: 142-148.
- [259] **Suttie E, Brischke C, Englund F, Heisel E, Jermer J, Lorenzo D, Polášek M, Thelandersson S, Van Acker J (2013)** *Performance standards for wood in construction – delivering customer service life requirements*. The International Research Group on Wood Protection, IRG/WP/13-20537.
- [260] **Suttie E, Brischke C, Englund F, Heisel E, Jermer J, Lorenzo D, Polášek M, Thelandersson S, Van Acker J (2013)** *Performance standards for wood in construction – delivering customer service life requirements*. In: Brischke C, Meyer L (Eds) *Proceedings of the 9th Meeting of the Northern European Network on Wood Science and Engineering*, September 11-12th 2013, Hannover, Germany: 44-49.
- [261] **Van den Bulcke J, De Windt I, Brischke C, Welzbacher CR, Rapp AO, Van Acker J (2013)** *Statistical analysis of durability tests – Part 2: Principles of time-to-failure and application on field test data*. The International Research Group on Wood Protection, IRG/WP/13-20512.
- [262] **Bornemann T, Brischke C, Lück J-M (2012)** *Comparative studies on the moisture performance and durability of wooden facades*. Stockholm: The International Research Group on Wood Protection, IRG/WP/12-20492.
- [263] **Brischke C, Meyer L, Alfredsen G, Humar M, Francis L, Flæte P-O, Larsson-Brelid P (2012)** *Durability of timber products – Part 1: Inventory and evaluation of above ground literature data on natural durability of timbers*. Stockholm: The International Research Group on Wood Protection, IRG/WP/12-20498.
- [264] **Brischke C, Meyer L, Alfredsen G, Humar M, Francis L (2012)** *Durability of timber products – Part 2: Proposal for an IRGWP - durability data base*. Stockholm: The International Research Group on Wood Protection, IRG/WP/12-20497.
- [265] **Brischke C, Olberding S, Meyer L, Bornemann T, Welzbacher CR (2012)** *In-ground variability of decay intensity within a test field*. Stockholm: The International Research Group on Wood Protection, IRG/WP/12-20496.
- [266] **Brischke C, Welzbacher CR, Gellerich A, Bollmus S, Plaschkies K, Scheiding W, Alfredsen G, Van Acker J, De Windt I (2012)** *Bestimmung der natürlichen Dauerhaftigkeit von Holz - Teil 2: Ergebnisse eines europäischen Ringversuchs*. Deutsche Holzschutztagung, September 27-28th 2012, Göttingen, Germany: 120-129.

- [267] **Brischke C, Zimmer K, Ulvcrona T, Bollmus S, Welzbacher CR, Thomsen O (2012)** *The impact of various modification processes on the structural integrity of wood*. In: Hill CAS, Militz H, Pohleven F (Eds): Proceedings of the 6th European Conference on Wood Modification ECWM, September 17-18th, 2012, Ljubljana, Slovenia.
- [268] **Frühwald Hansson E, Brischke C, Meyer L, Isaksson T, Thelandersson S, Kavurmaci D (2012)** *Durability of timber outdoor structures – Modelling performance and climate impacts*. In: World Conference on Timber Engineering WCTE, July 16-19th 2012, Auckland, New Zealand.
- [269] **Meyer L, Brischke C, Pilgård A (2012)** *Modified timber in various above ground exposures – durability and moisture performance*. In: Hill CAS, Militz H, Pohleven F (Eds) Proceedings of the 6th European Conference on Wood Modification ECWM, September 17-18th, 2012, Ljubljana, Slovenia.
- [270] **Meyer L, Brischke C, Pilgård A (2012)** *Moisture performance based wood durability testing*. Stockholm: The International Research Group on Wood Protection, IRG/WP/12-20495.
- [271] **Meyer L, Brischke C, Lampen SC (2012)** *Electric moisture content measurements in the field to examine the performance of wood based materials*. In: Baltrušaitis A, Ukvalbergiene K (Eds) Proceedings of the 8th Meeting of the Northern-European Network for Wood Science & Engineering (WSE), September 13-14th, 2012, Kaunas, Lithuania: 115-121.
- [272] **Welzbacher CR, Brischke C (2012)** *Interrelationship between heat treatment intensity and gas-emissions as a tool for the dynamic process control*. In: Hill CAS, Militz H, Pohleven F (Eds.): Proceedings of the 6th European Conference on Wood Modification ECWM, September 17-18th, 2012, Ljubljana, Slovenia.
- [273] **Welzbacher CR, Brischke C, Maier G (2012)** *Influence of heat treatment intensity on the structural integrity of 14 timber species*. The International Research Group on Wood Protection, IRG/WP/12-40586.
- [274] **Brischke C (2011)** *Testing and its role for prediction of service life of wood-based materials*. Byggdagar, October 5-6th, 2011, Borås, Sweden.
- [275] **Brischke C, Frühwald Hansson E (2011)** *Modeling biodegradation of timber - Dose-response models for above-ground decay and its climate-dependent variability*. International Conference on Structural Health Assessment of Timber Structures, SHATIS '11, June 16-17th, 2011, Lisbon, Portugal. Document No. 032.
- [276] **Brischke C, Frühwald Hansson E, Kavurmaci D, Thelandersson S (2011)** *Decay hazard mapping for Europe*. The International Research Group on Wood Protection, IRG/WP/11-20463.

- [277] **Brischke C, Lauenstein B, Bilstein M, Rapp AO (2011)** *Modelling durability of timber structures based on dose-response functions for decay*. In: Peixoto de Freitas V, Corvacho H, Lacasse M (Eds) XII DBMC 12th International Conference on Durability of Building Materials and Components, 12-15th April, 2011, Porto, Portugal: 385-392.
- [278] **Brischke C, Welzbacher CR, Meyer L, Bornemann T, Larsson-Brelid P, Pilgård A, Frühwald Hansson E, Westin M, Rapp AO, Thelandersson S, Jermer J (2011)** *Service life prediction of wooden components – Part 3: Approaching a comprehensive test methodology*. The International Research Group on Wood Protection, IRG/WP/11-20464.
- [279] **Larsson-Brelid P, Brischke C, Pilgård A, Hansson M, Westin M, Rapp AO, Jermer J (2011)** *Methods of field data evaluation – time versus reliability*. The International Research Group on Wood Protection, IRG/WP/11-20466.
- [280] **Meyer L, Brischke C, Welzbacher CR (2011)** *Thermally modified timber (TMT) for decking applications – determination of relevant surface properties*. The International Research Group on Wood Protection, IRG/WP/11-40544.
- [281] **Welzbacher CR, Brischke C (2011)** *Research on Wood Technology at Leibniz University Hannover and in Northern Germany*. Proceedings of Nordic Baltic Network in Wood Material Science & Engineering, October 27-28th, 2011, Oslo, Norway.
- [282] **Brischke C (2010)** *Service life prediction of outdoor wooden decking and flooring*. In: Littmann K (Ed) Proceedings of 7th International Colloquium “Industrial Floors”, December 14-16th, 2010 Stuttgart/Ostfildern, Germany: 431-440.
- [283] **Brischke C, Bilstein M, Lauenstein B, Rapp AO (2010)** *Modeling of above ground decay to predict service life of wooden components*. Workshop “Service life of wooden claddings – needs and opportunities”, May 27-28th, 2010, Gardermoen, Norway.
- [284] **Brischke C, Lauenstein B, Bilstein M, Bornemann T, Rapp AO (2010)** *Service life prediction of wooden components – Part 2: Impact of material, exposure and design details*. The International Research Group on Wood Protection, IRG/WP/10-20440.
- [285] **Brischke C, Rapp AO (2010)** *Service life prediction of wooden components – Part 1: Determination of dose response functions for above ground decay*. The International Research Group on Wood Protection, IRG/WP/10-20439.
- [286] **Brischke C, Rapp AO, Hasan M, Despot R (2010)** *Impact of climate change on wood deterioration – Challenges and solutions for cultural heritage and modern structures*. The International Research Group on Wood Protection, IRG/WP/10-20441.
- [287] **Meyer L, Brischke C, Welzbacher CR (2010)** *Dynamic hardness of wooden flooring materials*. In: Littmann K (Ed) Proceedings of 7th International Colloquium “Industrial Floors”, December 14-16th, 2010 Stuttgart/Ostfildern, Germany: 441-448.

- [288] **Welzbacher CR, Meyer L, Brischke C (2010)** *Prediction of flooring-relevant properties based on colour values of thermally modified timber (TMT)*. In: Hill CAS, Militz H, Andersons B (Eds) Proceedings of the 5th European Conference on Wood Modification, September 20th-21st, 2010 Riga, Latvia: 143-150.
- [289] **Brischke C, Welzbacher C, Huckfeldt T, Schuh F (2009)** *Impact of decay and blue stain causing fungi on the structural integrity of wood*. The International Research Group on Wood Protection, IRG/WP/09-10699.
- [290] **Rapp AO, Welzbacher CR, Brischke C (2009)** *Barefoot-heat-impact of oil-heat-treated wood: An important thermal property of decking boards*. The International Research Group on Wood Protection, IRG/WP/09-40458.
- [291] **Welzbacher CR, Brischke C, Rapp AO (2009)** *Estimating the heat treatment intensity through various properties of thermally modified timber (TMT)*. The International Research Group on Wood Protection, IRG/WP/09-40459.
- [292] **Brischke C (2008)** *Charakterisierung der biologischen Eigenschaften der Platten durch neuartige Kurzzeitprüfungen*. In: Deutsche Gesellschaft für Holzforschung e.V. (DGfH) (Ed) Ergebnisse des BMBF-Verbundprojektes FKZ 0330573 Wetterfeste Fassadenplatte (WEFAM). Abschlussworkshop November 11th, 2008, Oberstetten, Germany: 17-21.
- [293] **Brischke C, Rapp AO (2008)** *Dose-response functions as key elements for service life prediction of wooden components*. In: Van Acker J, Peek R-D (Eds) Proceedings of the COST Action E 37 Final conference: Socio-economic perspectives of treated wood for the common European market, September 29-30th, 2008, Bordeaux, France. Ghent University, Belgium: 97-106.
- [294] **Brischke C, Rapp AO (2008)** *Performance-based specification of wooden components*. In: Türkeri AN, Şengül Ö (Eds) Durability of Building Materials and Components 11: Globality and Locality in Durability, Vol. 2: Durability of Materials II, Istanbul Technical University: 673-682.
- [295] **Brischke C, Rapp AO (2008)** *The interrelationship between wood temperature, wood moisture content, and fungal decay in the field*. In: Proceedings of 19th International Scientific Conference “Wood is good – properties, technology, valorization, application”, AMBIENTA 08, October 17th, 2008, Zagreb, Croatia, University of Zagreb, Faculty of Forestry: 113-120.
- [296] **Brischke C, Welzbacher CR, Rapp AO (2008)** *Soil management impacts on decay rates*. Proceedings of the COST Action E37 Workshop: Enhanced durability country reports focusing on differences in end use related requirements, April 21st -22nd, 2008, Heraklion, Greece.
- [297] **Despot R, Hasan M, Rapp AO, Brischke C, Welzbacher CR (2008)** *The effect of gamma radiation on selected wood properties*. The International Research Group on Wood Protection, IRG/WP/08-40394.

- [298] **Rapp AO, Brischke C, Welzbacher CR (2008)** *Quality control of thermally modified timber – a new method for testing of TMT*. In: Motik D (Ed) Challenges in forestry and wood technology in the 21st century. Proceedings of International Scientific Conference on the Occasion of the 110th Anniversary of the Forestry Faculty of the University of Zagreb: 35-38.
- [299] **Rapp AO, Brischke C, Welzbacher CR, Nilsson T, Björdal C (2008)** *Mechanical strength of wood from the Vasa shipwreck*. The International Research Group on Wood Protection, IRG/WP/08-20381.
- [300] **Welzbacher CR, Brischke C, Rapp AO (2008)** *Performance of thermally modified timber (TMT) in outdoor application – Durability, abrasion and optical appearance*. In: Motik D (Ed) Challenges in forestry and wood technology in the 21st century. Proceedings of International Scientific Conference on the Occasion of the 110th Anniversary of the Forestry Faculty of the University of Zagreb: 45-48.

Journal Articles (without Peer-Review)

- [301] **Brischke C, Wippermann K (2022)** *Langzeitmonitoring bei Folienlagerung von Sturmholz*. Holz-Zentralblatt 148 (43): 747-749.
- [302] **Brischke C (2021)** Modeling the Performance of Wood and Wood Products. Forests, 12(7): 959. <https://doi.org/10.3390/f12070959>
- [303] **Brischke C (2020)** *Wood Protection and Preservation*. Forests 11(5): 549. <https://doi.org/10.3390/f11050549>
- [304] **Brischke C, Bollmus S, Braun M, Emmerich L (2020)** *Folienlagerung von ‚Käferholz‘ – Untersuchung der zu erwartenden Schutzwirkung*. Holz-Zentralblatt 146 (15): 296-297.
- [305] **Brischke C, Gobakken LR (2020)** *Protecting wood infrastructure and mass timber buildings*. Editorial. Wood Material Science and Engineering. <https://doi.org/10.1080/17480272.2020.1799242>
- [306] **Brischke C, Emmerich L, Militz H (2019)** *Holzterrassen – In Zukunft mit Mindesthaltbarkeit?* DEGA GALABAU 05/2019: 40-43.
- [307] **Brischke C, Emmerich L, Frühwald Hansson E, Meyer-Veltrup L, Niklewski J (2018)** *Wie lange halten Holzkonstruktionen im Außenbereich?* Holz-Zentralblatt 144 (22): 522-523.

Scientific Reports

- [308] **Thelandersson S, Niklewski J, Brischke C, Meyer-Veltrup L (2017)** *Performance based service life design of timber bridges*. In: Pousette A, Malo KA, Thelandersson S, Fortino S, Salokangas L, Wacker J (2017) *Durable Timber Bridges - Final Report and Guidelines*. RISE Research Institutes of Sweden. SP Rapport 2017:25: 17-48.
- [309] **Isaksson T, Thelandersson S, Jermer J, Brischke C (2016)** *Service life of wood in outdoor above ground applications: Engineering design guideline – Background document*. Rapport TVBK-3067. Lund University, Division of Structural Engineering, Lund, Sweden.
- [310] **Gobakken LR, Alfredsen G, Brischke C, Flæte P-O (2014)** *Levetid for tre i utendørs konstruksjoner i Norge. Klimatrerapport*. Rapport fra Skog og landskap. 16/2014. Norsk institutt for skog og landskap, Ås, Norway.
- [311] **Isaksson T, Thelandersson S, Jermer J, Brischke C (2014)** *Beständighet för utomhusträ ovan mark. Guide för utformning och materialval*. Rapport TVBK-3066. Lund University, Div. of Structural Engineering, Lund, Sweden.
- [312] **Brischke C, Meyer L, Suttie E (2013)** *Survey on “Moisture risk and Wood Durability Testing”*. PerformWOOD project report.

Books / Book Contributions

- [313] **Brischke C, Militz H, Klein KC, Kilian T, Erath J, Hochrein T, Bastian M (2021)** *Einfluss der Bewitterung auf die biologische Alterung von WPC*. Shaker, Herzogenrath. 176p. ISBN 978-3-8440-7873-2
- [314] **Brischke C (Ed) (2020)** *Wood Protection and Preservation*. Forests, Special Issue. ISBN 978-3-03936-332-2 (Hbk); ISBN 978-3-03936-333-9 (PDF). <https://doi.org/10.3390/books978-3-03936-333-9>.
- [315] **Brischke C (2018)** *Timber*. In: Ghiassi, B.; Lourenco, P.B. (Eds.) 2018: *Long-term Performance and Durability of Masonry Structures – Degradation Mechanisms, Health Monitoring and Service Life Design*. Woodhead Publishing, Elsevier, Amsterdam: 129-169.
- [316] **Jones D, Brischke C (2018)** *Design life for wood and wood-based products*. TRADA Research summary. Exova BM TRADA UK Ltd 2018.
- [317] **Brischke C (2017)** *Moisture performance*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 277-285.
- [318] **Brischke C (2017)** *Modelling – Introduction*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 483-484.

- [319] **Brischke C, Humar M (2017)** *Performance of the bio-based materials – Introduction*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 249.
- [320] **Brischke C, Humar M, Lorenzo D (2017)** *Protection by design and maintenance*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 228-240.
- [321] **Brischke C, Humar M, Thelandersson S (2017)** *Function*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 250-257.
- [322] **Brischke C, Jones D (2017)** *Preface*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: xiii-xiv.
- [323] **Brischke C, Unger W (2017)** *Potential hazards and degrading agents*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 188-203.
- [324] **Brischke C, Viitanen H (2017)** *Decay models*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 510-522.
- [325] **Greef JM, Brischke C (2017)** *Reed*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 124-128.
- [326] **Jones D, Brischke C (Eds) (2017)** *Performance of Bio-based Building Materials*. Elsevier, Amsterdam.
- [327] **Kutnik M, Suttie E, Brischke C (2017)** *Durability, efficacy and performance of bio-based construction materials: Standardisation background and systems of evaluation and authorisation for the European market*. In: Jones D, Brischke C (Eds) (2017) *Performance of Bio-based Building Materials*. Elsevier, Amsterdam: 593-610.
- [328] **Brischke C (2016)** *Performance and outdoor performance of wood products – Towards a comprehensive methodology for service life prediction*. Habilitation thesis, Leibniz University Hannover, Hannover, Germany.
- [329] **Jones D, Brischke C, Kers J, Poltimäe T, Schmid J (2015)** *Performance Testing and Testing Methodologies of Non-wood Biobased Materials - Book of abstracts of the joint Technical Workshop of COST Action FP1303 and COST Action FP1404*. ISBN 978-91-88001-37-5.
- [330] **Despot R, Hasan M, Rapp AO, Brischke C, Welzbacher CR, Ražem D (2012)** *Changes in selected properties of wood during sterilization by gamma radiation*. In: Adrovic F (Ed) *Gamma radiation*. InTech. ISBN 978-953-51-0316-5: 281-304.

- [331] **Huckfeldt T, Eichhorn M, Koch G, Welzbacher CR, Brischke C (2010)** *Bewertung von Schäden an dauerhaften Hölzern am Beispiel von Bongossi (Lophira alata)*. Europäischer Sanierungskalender 2010: 95-108.
- [332] **Brischke C (2007)** *Untersuchung abbaubestimmender Faktoren zur Vorhersage der Gebrauchsdauer feuchtebeanspruchter Holzbauteile*. Dissertation, Universität Hamburg, Department Biologie, Hamburg, Germany.
- [333] **Brischke C (2003)** *Untersuchung der Eignung von Tannenholz für die thermische Modifikation*. Diplomarbeit, Universität Hamburg, Fachbereich Biologie, Hamburg, Germany.