

Assessment of fire-retardant treatments and their impact on the fire performance and bonding properties of aspen and silver birch veneers

Alao, Percy Festus; Olusoji, Adekunle; **Kallakas, Heikko;** **Just, Alar;** **Kers, Jaan** European journal of wood and wood products 2025 / art. 66 <https://doi.org/10.1007/s00107-025-02223-1>

Detachable connecting fittings failure loads on plywood furniture

Saar, Kaarel; **Kers, Jaan;** **Luga, Üllar;** **Reiska, Ahto** Proceedings of the Estonian Academy of Sciences 2015 / p. 113-117 : ill <http://dx.doi.org/10.3176/proc.2015.1S.07> https://artiklid.elnet.ee/record=b2716371*est

Effect of different hardwood species and lay-up schemes on the mechanical properties of plywood

Kallakas, Heikko; **Rohumaa, Anti;** **Vahermets, Harti;** **Kers, Jaan** Forests 2020 / art. 649, 13 p. : ill <https://doi.org/10.3390/f11060649>
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The effect of hardwood veneer densification on plywood density, surface hardness, and screw withdrawal capacity

Kallakas, Heikko; **Kallakas, Heikko;** **Akkurt, Tolgay;** **Akkurt, Tolgay;** Scharf, Alexander; Scharf, Alexander; **Mühls, Fred;** **Mühls, Fred;** **Rohumaa, Anti;** **Rohumaa, Anti;** **Kers, Jaan;** **Kers, Jaan** Forests 2024 / art. 1275 <https://doi.org/10.3390/f15071275>

The effect of prestressing and temperature on tensile strength of basalt fiber-reinforced plywood

Lõhmus, Rünno; **Kallakas, Heikko;** **Tuhkanen, Eero;** Gulik, Volodymyr; Kiisk, Madis; Saal, Kristjan; **Kalamees, Targo** Materials 2021 / art. 4701, 9 p. : ill <https://doi.org/10.3390/ma14164701> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)
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Effect of soaking/oven-drying on mechanical and physical properties of birch (Betula spp.) plywood

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Enhancing the bending strength, load-carrying capacity and material efficiency of aspen and black alder plywood through thermo-mechanical densification of face veneers

Akkurt, Tolgay; **Rohumaa, Anti;** **Kallakas, Heikko;** Scharf, Alexander; **Kers, Jaan** Construction and building materials 2024 / art. 138555 <https://doi.org/10.1016/j.conbuildmat.2024.138555>

Fiber-reinforced plywood: Increased performance with less raw material

Saal, Kristjan; **Kallakas, Heikko;** **Tuhkanen, Eero;** **Just, Alar;** **Rohumaa, Anti;** **Kers, Jaan;** **Kalamees, Targo;** **Lõhmus, Rünno** Materials 2024 / art. 3218 <https://doi.org/10.3390/ma17133218>

Impact of aspen and black alder substitution in birch plywood

Akkurt, Tolgay; **Kallakas, Heikko;** **Rohumaa, Anti;** Hunt, Christopher Glaab; **Kers, Jaan** Forests 2022 / art. 142
<https://doi.org/10.3390/f13020142>

Mechanical properties of connecting fittings for plywood furniture

Saar, Kaarel; **Kers, Jaan;** **Luga, Üllar;** **Reiska, Ahto** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 399-404 : ill

The effect of birch (Betula pendula Roth) face veneer thickness on the reaction to fire properties of fire-retardant treated plywood

Alao, Percy Festus; **Dembovski, Karl Harold;** **Rohumaa, Anti;** Ruponen, Jussi; **Kers, Jaan** Construction and building materials 2024 / art. 136242 <https://doi.org/10.1016/j.conbuildmat.2024.136242>