

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>

Characterisation of frost-retted hemp fibres for use as reinforcement in biocomposites = Külmligu kanepikiudude karakteriseerimine kasutamiseks sarrusena biokomposiitides

Alao, Percy Festus 2022 <https://doi.org/10.23658/taltech.31/2022> <https://digikogu.taltech.ee/et/Item/1cb2c061-7df8-4d8b-806a-fd53ea8820b5> https://www.ester.ee/record=b5500189*est

Development of hemp hurd particleboards from formaldehyde-free resins

Alao, Percy Festus; Tobias, Micah Onyedikachi; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Goljandin, Dmitri Agronomy research 2020 / p. 679–688 : ill <https://doi.org/10.15159/AR.20.127> [Journal metrics at Scopus](#) [Article at Scopus](#)

Development of hemp hurd particleboards from formaldehyde-free resins

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Effect of hemp fiber surface treatment on the moisture/water resistance and reaction to fire of reinforced PLA composites

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Effect of hemp fibre length on the properties of polypropylene composites

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Effect of hemp fibre length on the properties of polypropylene composites [Online resource]

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Fire and mechanical properties of hemp and clay boards for timber structures

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Impact of alkali and silane treatment on hemp/PLA composites' performance : from micro to macro scale

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Influence of protic ionic liquid-based flame retardant on the flammability and water sorption of alkalized hemp fiber-reinforced PLA composites

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Investigation of efficient alkali treatment and the effect of flame retardant on the mechanical and fire performance of frost-retted hemp fiber reinforced PLA

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Natural weathering of bio-based façade materials

Alao, Percy Festus; Visnapuu, Kevin; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan Forests 2020 / art. 642, 12 p. : ill <https://doi.org/10.3390/f11060642> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Prefab light clay-timber elements for net zero whole-life carbon buildings

Päätaalo, Juha; **Alao, Percy Festus; Rohumaa, Anti; Kers, Jaan; Liblik, Johanna; Lylykangas, Kimmo Sakari** Journal of sustainable architecture and civil engineering 2024 / p. 89-100 <https://doi.org/10.5755/j01.sace.34.1.35561>

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Properties of frost-retted hemp fibres for the reinforcement of composites

Marrot, Laetitia; **Alao, Percy Festus; Mikli, Valdek; Kers, Jaan** Journal of natural fibers 2022 / p. 16017-16028 <https://doi.org/10.1080/15440478.2021.1904474> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Properties of retted hemp fibres for reinforcement of composites

Marrot, Laetitia; **Alao, Percy Festus**; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Mikli, Valdek; Mere, Arvo GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 13 : ill <http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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

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Utilization of Estonian cultivated hemp fibre (a byproduct of cannabidiol production), as a reinforcing material for bio-based thermoplastic composite

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