

### **Behaviour of the very-low-temperature crystallization peak of linear low-density polyethylene**

**Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Lehtinen, Arja; Viikna, Anti** Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 58-62 : ill

### **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](https://www.ester.ee/record=b5500189*est)

### **CNC machining of halftone and lithophane images into wood-based panels [Online resource]**

**Kiiman, Karmo; Luga, Üllar; Poltimäe, Triinu; Kers, Jaan** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / p. 1 <http://fntdk.ut.ee/teesid-2018/>

### **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**

**Alao, Percy Festus; Tobias, Micah Onyedikachi; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Goljandin, Dmitri** 11th International Conference Biosystems Engineering : May 6-8, 2020 in Tartu, Estonia : book of abstracts [Võrguteavik] 2020 / p. 99 [https://www.ester.ee/record=b5347289\\*est](https://www.ester.ee/record=b5347289*est)

### **Differential scanning calorimetry of blends of highly branched linear low density polyethylene with high density and moderate branched linear low density polyethylene**

**Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Viikna, Anti; Roots, Jaan; Lehtinen, Arja** Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 105

### **Durability of wood plastic composites : influence of weathering on the mechanical properties**

**Kallakas, Heikko; Poltimäe, Triinu; Süld, Tiia-Maaja; Kers, Jaan** Proceedings of The Northern European Network for Wood Science and Engineering : Edinburgh, Scotland, 13-14 October 2014 2014 / p. 229

### **Effect of accelerated weathering on the mechanical properties of wood-plastic composites**

**Kallakas, Heikko; Poltimäe, Triinu; Süld, Tiia-Maaja; Kers, Jaan** Baltic Polymer Symposium 2014 : programme and abstracts : Laulasmaa, Estonia, September 24-26, 2014 2014 / p. 75

### **Effect of birch false heartwood on the physical and mechanical properties of wood-plastic composites [Online resource]**

**Kallakas, Heikko; Martin, Mihkel; Ayansola, Gbenga; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

### **Effect of chemical modification of wood flour on the mechanical properties of wood-plastic composites**

**Kallakas, Heikko; Shamim, M. A.; Olutubo, T.; Poltimäe, Triinu; Süld, Tiia-Maaja; Krumme, Andres; Kers, Jaan** Agronomy research 2015 / p. 639-653 : ill [https://agronomy.emu.ee/vol133/13\\_3\\_2\\_B5.pdf](https://agronomy.emu.ee/vol133/13_3_2_B5.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Effect of chemical modification of wood flour on the mechanical properties of wood-plastic composites [Electronic resource]**

**Kallakas, Heikko; Shamim, M. A.; Olutubo, T.; Poltimäe, Triinu; Süld, Tiia-Maaja; Krumme, Andres; Kers, Jaan** 6th International Conference Biosystems Engineering 2015 : 7-8 May 2015, Tartu, Estonia : book of abstracts 2015 / p. 94. [CD-ROM] [http://bse.emu.ee/BSE2015\\_Book%20of%20ABSTRACTS\\_ISBN.pdf](http://bse.emu.ee/BSE2015_Book%20of%20ABSTRACTS_ISBN.pdf)

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

**Alao, Percy Festus; Marrot, Laetitia; Kallakas, Heikko; Just, Alar; Poltimäe, Triinu; Kers, Jaan** Materials 2021 / art. 4332, 17 p. : ill <https://doi.org/10.3390/ma14154332> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of hemp fibre length on the properties of polypropylene composites**

**Alao, Percy Festus; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan** Agronomy research 2019 / p. 1517–1531 : ill <https://doi.org/10.15159/AR.19.146> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **The effect of wood flour fraction size on the properties of wood-plastic composites**

**Kängsepp, Kärt; Poltimäe, Triinu; Liimand, K.; Kallakas, Heikko; Süld, Tiia-Maaja; Repeshova, Irina; Goljandin, Dmitri; Kers, Jaan** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 366-371

### **Effective electrical conductivity of carbon nanotube–epoxy nanocomposites**

**Kulakov, Vladimir; Aniskevich, Andrey; Ivanov, Sergey; Poltimäe, Triinu; Starkova, Olesja** Journal of composite materials 2017 / p.

2979-2988 : ill <https://doi.org/10.1177/0021998316678304> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

**Kallakas, Heikko; Liblik, Johanna; Alao, Percy Festus; Poltimäe, Triinu; Just, Alar; Kers, Jaan** IOP conference series : earth and environmental science Central Europe towards Sustainable Building (CESB19) 2–4 July 2019, Prague, Czech Republic 2019 / art. 012019, 8 p. : ill <https://doi.org/10.1088/1755-1315/290/1/012019> Conference proceedings at Scopus Article at Scopus

#### **The influence of accelerated weathering on the mechanical and physical properties of wood-plastic composites**

**Kallakas, Heikko; Poltimäe, Triinu; Süld, Tiia-Maaja; Kers, Jaan; Krumme, Andres** Proceedings of the Estonian Academy of Sciences 2015 / p. 94-104 : ill <https://doi.org/10.3176/proc.2015.1S.05> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **The influence of birch (Betula pendula) false heartwood on the mechanical properties of wood-plastic composites = Kase (Betula pendula) väärlülipuidu mõju puitplastkomposiitide mehaanilistele omadustele**

**Kallakas, Heikko** 2019 <https://digi.lib.ttu.ee/i/?12253>

#### **Influence of birch false heartwood on the physical and mechanical properties of wood-plastic composites**

**Kallakas, Heikko; Ayansola, Gbenga; Tumanov, Tanel; Goljandin, Dmitri; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan** Bioresources 2019 / p. 3554-3566 : ill <https://doi.org/10.15376/biores.14.2.3554-3566> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **Influence of cellulose content on rheological and mechanical properties of “green” poly(lactic) acid/cellulose composites**

**Šumigin, Dmitri; Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Meier, Pille** Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 122

#### **Influence of molar mass, branching and catalyst type on the behavior of very low temperature crystallization in liner low-density polyethylenes**

**Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Viikna, Anti; Lehtinen, Arja** Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 34

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

**Alao, Percy Festus; Press, Raimond; Kallakas, Heikko; Ruponen, Jussi; Poltimäe, Triinu; Kers, Jaan** Polymers 2022 / art. 2280 <https://doi.org/10.3390/polym14112280> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **Laste mööbel [Võrguteavik] : imikuvoodid : ohutusnõuded ja katsemeetodid = Children's furniture : cribs : safety requirements and test methods**

**Poltimäe, Triinu** 2019 [https://www.ester.ee/record=b5291269\\*est](https://www.ester.ee/record=b5291269*est)

#### **Mechanical and physical properties of industrial hemp-based insulation materials**

**Kallakas, Heikko; Närep, Merili; Närep, Aivo; Poltimäe, Triinu; Kers, Jaan** Proceedings of the Estonian Academy of Sciences 2018 / p. 183-192 : ill <https://doi.org/10.3176/proc.2018.2.10> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### **Mechanical and physical properties of silane crosslinked wood flour reinforced composites**

**Kallakas, Heikko; Shamim, M. A.; Poltimäe, Triinu; Süld, Tiia-Maaja; Krumme, Andres; Kers, Jaan** Proceedings of the 11th Meeting of the Northern European Network for Wood Sciences and Engineering (WSE) : September 14-15, 2015, Poznan, Poland 2015 / p. 278

#### **Mechanical and physical properties of thermally modified wood flour reinforced polypropylene composites**

**Kallakas, Heikko; Martin, Mihkel; Goljandin, Dmitri; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan** Agronomy research 2016 / p. 994-1003 : ill [http://ise.elnet.ee/record=b2891902~S1\\*est](http://ise.elnet.ee/record=b2891902~S1*est) Journal metrics at Scopus Article at Scopus

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**Kallakas, Heikko; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdtk.ut.ee/teesid/>

#### **Mööbel : haridusasutuste toolid ja lauad. Osa 2, Ohutusnõuded ja katsemeetodid = Furniture : chairs and tables for educational institutions. Part 2, Safety requirements and test methods**

2023 [https://www.ester.ee/record=b5568355\\*est](https://www.ester.ee/record=b5568355*est)

#### **Mööbel : istmed : püstivuse määramine = Furniture : seating : determination of stability**

2024 [https://www.ester.ee/record=b5675283\\*est](https://www.ester.ee/record=b5675283*est)

**Mööbel : narivoodid ja kõrged voodid. Osa 1, Ohutuse, tugevuse ja vastupidavuse nõuded = Furniture : bunk beds and high beds. Part 1, Safety, strength and durability requirements**

2024 [https://www.ester.ee/record=b5675297\\*est](https://www.ester.ee/record=b5675297*est)

**Mööbel : narivoodid ja kõrged voodid. Osa 2, Katsemeetodid = Furniture : bunk beds and high beds. Part 2, Test methods**

2024 [https://www.ester.ee/record=b5675305\\*est](https://www.ester.ee/record=b5675305*est)

**Mööbel : ohutus, tugevus ja vastupidavus : nõuded koduistmetele = Furniture : safety, strength and durability : requirements for domestic seating**

2024 [https://www.ester.ee/record=b5713872\\*est](https://www.ester.ee/record=b5713872*est)

**Mööbel : ohutus, tugevus ja vastupidavus : nõuded kodulaudadele = Furniture : safety, strength and durability : requirements for domestic tables**

2023 [https://www.ester.ee/record=b5651639\\*est](https://www.ester.ee/record=b5651639*est)

**Mööbel : voodid : nõuded ohutusele, tugevusele ja vastupidavusele = Furniture : beds : requirements for safety, strength and durability**

2024 [https://www.ester.ee/record=b5677967\\*est](https://www.ester.ee/record=b5677967*est)

**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](#)

**New chromatographic method for analysis of ethylene/1-butene and ethylene/1-hexene copolymers according to the chemical composition and the molar mass**

Kivistik, Kairi; Poltimäe, Triinu; Macko, T.; Brüll, Robert Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 113

**Particle reinforced polymer composite's stain resistance factors**

Aruniit, Aare; Kers, Jaan; Krumme, Andres; Allikas, Georg; Poltimäe, Triinu ECCM15 - 15th European Conference on Composite Materials : Venice, Italy, 24-28 June 2012 2012 <http://www.escm.eu/eccm15/data/assets/417.pdf>

**Preliminary study of the influence of post curing parameters to the particle reinforced composite's mechanical and physical properties**

Aruniit, Aare; Kers, Jaan; Krumme, Andres; Poltimäe, Triinu; Tall, Kaspar Materials science = Medžiagotyra 2012 / p. 256-261 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/2435>

**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://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Puidu ja puittoodete vastupidavus : kaitsevahendiga immutatud täispuit. Osa 1, Kaitsevahendi läbitavuse ja sissejäävuse liigitus = Durability of wood and wood-based products : preservative-treated solid wood. Part 1, Classification of preservative penetration and retention**

2023 [https://www.ester.ee/record=b5562368\\*est](https://www.ester.ee/record=b5562368*est)

**Puidu ja puittoodete vastupidavus : kaitsevahendiga immutatud täispuit. Osa 2, Juhised proovivõtu kohta kaitsevahendiga immutatud puidu analüüsiks = Durability of wood and wood-based products : preservative-treated solid wood. Part 2, Guidance on sampling for the analysis of preservative-treated wood**

2023 [https://www.ester.ee/record=b5562418\\*est](https://www.ester.ee/record=b5562418*est)

**Puidu ja puittoodete vastupidavus : toimivuse määramise juhend = Durability of wood and wood-based products : guidance on performance**

2023 [https://www.ester.ee/record=b5547997\\*est](https://www.ester.ee/record=b5547997*est)

**Puidust põrandakate [Võrguteavik] : täispuidust üksikud ja eelkoostatud lehtpuulauad = Wood flooring : solid individual and pre-assembled hardwood boards**

2020 [https://www.ester.ee/record=b5366547\\*est](https://www.ester.ee/record=b5366547*est)

**Puitkonstruktsioonid : nelinurkse ristlõikega tugevussorditud ehituspuit. Osa 2, Masinsortimine. Täiendavad nõuded esmasteks tüübikatsetusteks = Timber structures : strength graded structural timber with rectangular cross section. Part 2, Machine grading; additional requirements for initial type testing**

2022 [https://www.ester.ee/record=b5509628\\*est](https://www.ester.ee/record=b5509628*est)

**Puitkonstruktsioonid : nelinurkse ristlõikega tugevussorditud ehituspuit. Osa 3, Masinsortimine. Täiendavad nõuded**

**tootmisohjele ettevõttes = Timber structures : strength graded structural timber with rectangular cross section. Part 3, Machine grading; additional requirements for factory production control**

2022 [https://www.ester.ee/record=b5509636\\*est](https://www.ester.ee/record=b5509636*est)

**Rheological and mechanical properties of poly(lactic) acid- and polyethylene-based cellulosic composites**

Šumigin, Dmitri; Poltimäe, Triinu; Tarasova, Elvira; Krumme, Andres; Meier, Pille BIOCOMP 2010 : 10th Pacific Rim Bio-based Composites Symposium : October 5th-8th, 2010, Banff, Alberta, Canada 2010 / p. 310

**Saematerjali ja spooni kuivatus, puidu modifitseerimine**

Kallakas, Heikko; Poltimäe, Triinu; Reiska, Rein; Riistop, Märt Puidutöötlemise õpik 2025 / lk. 172-237 : ill

[https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est) <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

**Study of tertiary crystallization process and morphology in LLDPE and HDPE**

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Poltimäe, Triinu 2011 [https://www.ester.ee/record=b2714119\\*est](https://www.ester.ee/record=b2714119*est)

**Triple crystallization behavior of fractionated ethylene/[alpha]-olefin copolymers of different catalyst type**

Tarasova, Elvira; Poltimäe, Triinu; Krumme, Andres; Lehtinen, Arja; Viikna, Anti Journal of polymer research 2010 / [10] p.: ill

**Triple crystallization behavior of fractionated ethylene/ $\alpha$ -olefin copolymers of different catalyst type**

Tarasova, Elvira; Poltimäe, Triinu; Krumme, Andres; Lehtinen, Arja; Viikna, Anti Journal of polymer research 2011 / p. 207-216 : ill

**Triple crystallization behaviour of fractionated linear low density polyethylene**

Tarasova, Elvira; Poltimäe, Triinu; Krumme, Andres; Lehtinen, Arja; Viikna, Anti Baltic Polymer Symposium 2009 : Ventspils, Latvia, September 22-25, 2009 : programme and proceedings 2009 / p. 99

**Täispuidust vooderdis ja pealistus [Võrguteavik] : omadused, nõuded ja märgistus = Solid wood panelling and cladding : characteristics, requirements and marking**

2020 [https://www.ester.ee/record=b5342985\\*est](https://www.ester.ee/record=b5342985*est)