

### **Acoustic performance of an additive manufactured lattice structure**

**Auriemma, Fabio; Liu, Le** IOP conference series : materials science and engineering 2021 / art. 012002, 5 p.: ill  
<https://doi.org/10.1088/1757-899X/1140/1/012002>

### **Acoustic performance of micro-grooved elements**

**Auriemma, Fabio** Applied acoustics 2017 / p. 128-137 : ill <https://doi.org/10.1016/j.apacoust.2017.02.019>

### **An experimental study on the effects of matrix cracking to the stiffness of glass/epoxy cross plied laminates**

**Lasn, Kaspar; Echtermeyer, Andreas T.; Klauson, Aleksander; Chati, Farid; Decultot, Dominique** Composites. Part B: Engineering 2015 / p. 260-268 : ill <http://dx.doi.org/10.1016/j.compositesb.2015.06.005>

### **An improved constitutive model for short fibre reinforced cementitious composites (SFRC) based on the orientation tensor**

**Herrmann, Heiko** Generalized continua as models for classical and advanced materials 2016 / p. 213-227 [https://doi.org/10.1007/978-3-319-31721-2\\_10](https://doi.org/10.1007/978-3-319-31721-2_10)

### **Black-box assessment of optical spectrum services**

**Kaeval, Kaida; Elbers, Jörg-Peter; Grobe, Klaus; Tikas, Marko; Fehenberger, Tobias; Griesser, Helmut; Jervan, Gert** 2021 Optical Fiber Communications Conference and Exhibition (OFC) : 6-10 June 2021 : San Francisco, CA, USA 2021 / 3 p  
<https://ieeexplore.ieee.org/document/9489700>

### **1-butyl-3-methylimidazolium chloride assisted coaxial electrospinning of styrene-acrylonitrile copolymer**

**Kirikal, Kristi; Gudkova, Viktoria; Krumme, Andres; Savest, Natalja; Viirsalu, Mihkel** Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 148

### **Bread and pasta products with fibre materials**

**Kann, Aino; Täht, Riina** Proceedings from the 25th Nordic Cereal Congress : the Nordic cereal industry in an integrating Europe, June 6-9 1993, Helsinki 1993 / p. 281-283

### **CdSe nanofiber and nanohorn structures on ITO substrates fabricated by electrochemical deposition**

**Kois, Julia; Gurevičs, Jelena; Bereznev, Sergei; Volobujeva, Olga; Öpik, Andres; Mellikov, Enn** Applied surface science 2013 / p. 982-985 : 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)

### **Colloquium 582 : Short Fibre Reinforced Cementitious Composites and Ceramics : book of abstracts, March 20-22, 2017**

2017 [http://www.ester.ee/record=b4658990\\*est](http://www.ester.ee/record=b4658990*est)

### **Comparative study of the VARTM, VAP and MTI vacuum infusion processes**

**Aruniit, Aare; Herranen, Henrik; Miller, Kristen** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 71-76 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.71>

### **Comparing tungsten carbide based composites reinforced by alumina nanofibers or zirconia**

**Yung, Der-Liang; Dong, Minjie; Hussainova, Irina** Proceedings of the PM13 International Conference on Powder Metallurgy and Particulate Materials 2013 / p. 24-35 : ill

### **Coupled thermal analysis of novel alumina nanofibers with ultrahigh aspect ratio**

**Aghayan, Marina; Hussainova, Irina; Gasik, Michael; Kutuzov, Michael; Friman, Michael** Thermochemica acta 2013 / p. 140-144 : ill

### **Deep-ultraviolet emitter : rare-earth-free ZnAl<sub>2</sub>O<sub>4</sub> nanofibers via a simple wet chemical route**

**Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Romet, Ivo; Del Campo, Adolfo; Gorni, Giulio; Hussainova, Irina; Fernandez, Jose Francisco; Nagirnyi, Vitali** Inorganic Chemistry 2022 / p. 11886-11896 <https://doi.org/10.1021/acs.inorgchem.2c01646>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Design and manufacturing of variable angle tow laminate**

**Haavajõe, Anti; Mikola, Madis; Pohlak, Meelis** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 59-64 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.59>

### **A double-layer acoustic absorber as potential substitute for traditional micro-perforated elements**

**Auriemma, Fabio** Proceedings of Meetings on Acoustics 2017 / art. 030004, p. 1-11 : ill <https://doi.org/10.1121/2.0000598>

### **Effect of basalt reinforcement type and content on the abrasive wear behaviour of polymer composites**

**Antonov, Maksim; Kers, Jaan; Liibert, Laura;** Shuliak, Volodymyr; Smirnov, Anton; Bartolome, Jose F. Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 181-188 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.181>

### **Effect of different ionic liquids on the conductivity of electrospun polyacrylonitrile membranes**

**Savest, Natalja; Krumme, Andres; Viirsalu, Mihkel; Küppar, Kadi-Anne** Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 91

### **Effect of electrode type on electrospun membrane morphology using low-concentration PVA solutions**

Zelca, Zane; **Krumme, Andres;** Kukle, Silviija; **Viirsalu, Mihkel;** Vilcena, Laimdota Membranes 2022 / art. 609 <https://doi.org/10.3390/membranes12060609> [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 [Online resource]**

Alao, Percy Festus; **Kallakas, Heikko; Kers, Jaan** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebruar, 2019, Tartu : teesid] 2019 / 1 p.: ill <http://fmdk.ut.ee/teesid-2019/>

### **Effect of temperature on sliding and erosive wear of fiber reinforced polyimide hybrids**

**Zhao, Gai; Hussainova, Irina; Antonov, Maksim;** Wang, Qihua; Wang, Tingmei; **Yung, Der-Liang** Tribology international 2015 / p. 525-533 : ill <http://dx.doi.org/10.1016/j.triboint.2014.01.019>

### **Electrochemically synthesised CdSe nanofibers and pearl-chain nanostructures for photovoltaic applications**

**Kois, Julia; Bereznev, Sergei; Gurevič, Jelena; Volobujeva, Olga** Materials letters 2013 / p. 110-113 : ill

### **Electroconductive fibrous mat prepared by electrospinning of polyacrylamide-g-polyaniline copolymers as electrode material for supercapacitors**

Smirnov, Michael; **Tarasova, Elvira; Mikli, Valdek; Vassiljeva, Viktoria; Krumme, Andres** Journal of materials science 2018 / p. 4859-4873 : ill <https://doi.org/10.1007/s10853-018-03186-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrospinning of polyaniline conductive membranes**

**Kütt, Kertu; Savest, Natalja; Krumme, Andres; Viirsalu, Mihkel** Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 88

### **Electrospun polystyrene ion exchangers**

**Kuzmenko, Tetiana;** Paju, Jane; **Savest, Natalja; Krumme, Andres** Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 152

### **Elektrit juhtivatel polümeeridel põhineva erineva juhtivusega kiud, lõngad ja tekstiilmaterjalid**

Strandberg, Marek; **Idla, Katrin;** Karelson, Mati XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 132-133

### **Elektrokedratud kiud**

**Krumme, Andres** Horisont 2021 / lk. 14-15 : fot [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est)

### **Experimental study of steered fibre composite production**

**Haavajõe, Anti; Mikola, Madis; Osali, Hadi; Pohlak, Meelis; Herranen, Henrik** Proceedings of the Estonian Academy of Sciences 2017 / p. 295-299 : ill <https://doi.org/10.3176/proc.2017.3.09> [http://www.ester.ee/record=b2355998\\*est](http://www.ester.ee/record=b2355998*est)

### **Fabrication of alumina nanocomposites reinforced by a novel type of alumina nanofiber and graphene coated alumina nanofiber**

**Drozdova, Maria; Ivanov, Roman; Aghayan, Marina; Hussainova, Irina; Dong, Minjie;** Rodriguez, Miguel Angel Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 337-341 : ill

### **Friction and wear of fiber reinforced polyimide composites**

**Zhao, Gai; Hussainova, Irina; Antonov, Maksim;** Wang, Qihua; Wang, Tingmei Wear 2013 / p. 122-129 : ill

### **Friction and wear of fiber reinforced polyimide composites**

**Zhao, Gai; Hussainova, Irina; Antonov, Maksim;** Wang, Qihua; Wang, Tingmei; **Veinthal, Renno** 19th International Conference on Wear of Materials : Portland, Oregon, USA, 14-18 April 2013 : conference abstracts 2013 / [p. 92]

### **Graphene coated alumina nanofibers as zirconia reinforcement**

**Ivanov, Roman; Hussainova, Irina; Aghayan, Marina; Petrov, Mihhail** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 348-353 : ill

## Hot and cold regions during accumulative roll bonding of Al/Al<sub>2</sub>O<sub>3</sub> nanofibre composites

**Pramono, Agus; Kollo, Lauri; Veinthal, Renno** Proceedings of the Estonian Academy of Sciences 2016 / p. 132-137 : ill  
[https://artiklid.elnet.ee/record=b2768216\\*est](https://artiklid.elnet.ee/record=b2768216*est)

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

**Alao, Percy Festus; Marrot, Laetitia; Burnard, Michael David; Lavrič, Gregor; Saarna, Mart; Kers, Jaan** Polymers 2021 / art. 851, 18 p. : ill <https://doi.org/10.3390/polym13060851> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Influence of cellulose stearate (CS) content on thermal and rheological properties of poly(lactic acid)/CS composites

**Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Viikna, Anti** Baltic Polymer Symposium 2013 / p. 99-104

## Initial results of local strength analysis of a fiber concrete plate by 4-point bending tests

**Goidyk, Oksana; Herrmann, Heiko** 13th International Conference : Modern Building Materials, Structures and Techniques, May 16–17, 2019, Lithuania 2019 / p. 306-310 : ill <https://doi.org/10.3846/mbmst.2019.116>

## 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](#)

## Kiuteadus

**Viikna, Anti** 2005 [http://www.ester.ee/record=b2106230\\*est](http://www.ester.ee/record=b2106230*est)

## Kõrgsuutlikud kiud ja materjalid

**Viikna, Anti** 2007 [https://www.ester.ee/record=b2324433\\*est](https://www.ester.ee/record=b2324433*est)

## Lignin and outer cell wall removal from aspen pulp fibres by using supercritical CO<sub>2</sub> extraction

**Kärner, Kärt; Elomaa, Matti Antero; Kallavus, Urve** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 372-377 : ill

## Manganese-enhanced magnetic resonance imaging of mossy fiber plasticity in vivo

**Nairismägi, Jaak; Pitkänen, Asla; Narkilahti, Susanna; Kauppinen, Risto A.; Grohn, Olli H.J.; Huttunen, Johanna** NeuroImage 2006 / 1, p. 130-135 <https://pubmed.ncbi.nlm.nih.gov/16246593/>

## Manufacturing of steered fiber composite laminate

**Haavajõe, Anti; Mikola, Madis; Herranen, Henrik; Pohlak, Meelis** Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 21-26 : ill

## 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](#)

## Methods for fibre orientation analysis of X-ray tomography images of steel fibre reinforced concrete (SFRC)

**Herrmann, Heiko; Pastorelli, Emiliano; Kallonen, Aki; Suuronen, Jussi-Petteri** Journal of materials science 2016 / p. 3772-3783 : ill <http://dx.doi.org/10.1007/s10853-015-9695-4>

## A multiplexed FBG based sensor platform for flow and temperature measurements in the Baltic Sea

**Dzipsalski, A.; Morton, J. A. S.; Papachristou, N.; Maier, R. R. J.; MacPherson, W. N.; Ristolainen, Asko; Kruusmaa, Maarja; Reilent, E.; Suhhova, Irina; Lips, Urmas** Proceedings of SPIE - The International Society for Optical Engineering 2023 / art. 1264307-1 : ill <https://doi.org/10.1117/12.2679756>

## Optimization of mechanical strength of titania fibers fabricated by direct drawing

**Hanschmid, Kelli; Tätte, Tanel; Hussainova, Irina** Applied physics. A, Materials science & processing 2013 / p. 663-671 : ill

## Phenomenological and numerical modelling of short fibre reinforced cementitious composites

**Herrmann, Heiko; Eik, Marika; Berg, Viktoria; Puttonen, Jari** Meccanica 2014 / p. 1985-2000 : ill

## Preparation of fibrous electrospun membranes with activated carbon filler

**Krasnou, Illia; Tarasova, Elvira; Malmberg, Siret; Vassiljeva, Viktoria; Krumme, Andres** IOP conference series : materials science and engineering 2019 / art. 012022, 5 p. : ill <https://doi.org/10.1088/1757-899X/500/1/012022> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## 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

**Raytraced images for testing the reconstruction of fibre orientation distributions**

**Eik, Marika; Herrmann, Heiko** Proceedings of the Estonian Academy of Sciences 2012 / p. 128-136 : ill

**Short fibre reinforced cementitious composites and ceramics**

2019 <https://doi.org/10.1007/978-3-030-00868-0>

**Some comments on the theory of short fibre reinforced materials**

**Herrmann, Heiko; Eik, Marika** Proceedings of the Estonian Academy of Sciences 2011 / 3, p. 179-183 : ill

**The effect of approximation accuracy of the orientation distribution function on the elastic properties of short fibre reinforced composites**

**Eik, Marika; Puttonen, Jari; Herrmann, Heiko** Composite structures 2016 / p. 12-18 : ill

<http://dx.doi.org/10.1016/j.compstruct.2016.03.046>

**The influence of embedded electronics on the structural performance in carbon fiber laminates**

**Herranen, Henrik; Kers, Jaan; Preden, Jürjo-Sören; Talalaev, Robert; Eerme, Martin; Majak, Jüri; Pohlak, Meelis; Allikas, Georg; Pabut, Ott; Lend, Henri** Proceedings of the International Conference on Mechanics of Nano, Micro and Macro Composite Structures : 18 to 20 June 2012 2012 / [2 p.]

**Thermal and mechanical properties of composites based on treated lignocellulosic fibres**

**Süld, Tiia-Maaja; Viikna, Anti; Sassi, Riin** Book of abstracts : MEDICTA 2007 : the 8th Mediterranean Conference on Calorimetry and Thermal Analysis : September 25th - September 29th, 2007, Palermo, Italy 2007 / p. 236

**Thermomechanical surface instability at the origin of surface fissure patterns on heated circular MDF samples**

**Ferrantelli, Andrea; Baroudi, Djebbar; Yuan Li, Kai; Khakalo, Sergei** Fire and materials 2019 / p. 707-716

<https://doi.org/10.1002/fam.2722> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

**Alao, Percy Festus; Marrot, Laetitia; Kers, Jaan** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 /

O 5 [https://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Влияние условий взрывного автогидролиза березовой древесины на структуру получаемых волокнистых продуктов**

**Kallavus, Urve; Grāvītis, Jānis; Polmanis, A.** Строение древесины и его роль в процессах делигнификации : тезисы докладов 3-го научного семинара 1986 / с. 85-88 [https://www.ester.ee/record=b2333166\\*est](https://www.ester.ee/record=b2333166*est)