

Aging processes in recycled polyethylene and fly ash blends

Krasnou, Illia; Jayapal, Ramkumar; Köster, Annika; Krumme, Andres Book of abstracts : AERC 2014 : 9th Annual European Rheology Conference, April 8-11, 2014, Karlsruhe, Germany 2014 / p. 179

Air vortex assisted electrospinning unit for nanoyarn production

Viirsalu, Mihkel; Kivirand, Teet; Krumme, Andres; Savest, Natalja Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 53

Air vortex electrospinning method for nanofiber yarn production [Online resource]

Viirsalu, Mihkel; Savest, Natalja; Krumme, Andres Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

Andres Krumme: plastimurest vabaks puidust toodetava bioplasti abil

director.ee 2022 [Andres Krumme: plastimurest vabaks puidust toodetava bioplasti abil](#)

Antibacterial and antiviral effects of Ag, Cu and Zn metals, respective nanoparticles and filter materials thereof against coronavirus SARS-CoV-2 and influenza A virus

Kubo, Anna-Liisa; Rausalu, Kai; Savest, Natalja; Žusinaite, Eva; Vasiliev, Grigory; Viirsalu, Mihkel; Plamus, Tiia; Krumme, Andres; Merits, Andres; Bondarenko, Olesja Pharmaceutics 2022 / art. 2549 : 19 p. : ill <https://doi.org/10.3390/pharmaceutics14122549> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of particle swarm optimisation to evaluation of polymer cure kinetics models

Tilford, T.; Ferenets, Marju; Morris, J.E.; Krumme, Andres; Pavuluri, S.; Rajaguru, P.R.; Desmulliez, M.P.Y.; Bailey, C. Journal of algorithms & computational technology 2010 / 1, 121-146 : ill

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

Bimodaalse polüetüleen kristallisatsioon : olemus ja uurimismeetodid

Krumme, Andres XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 66

Biodegradable polyurethane/graphene oxide scaffolds for soft tissue engineering : in vivo behavior assessment

Ivanoska-Dacikj, Aleksandra; Bogoeva-Gaceva, Gordana; Krumme, Andres; Tarasova, Elvira; Scalera, Chiara; Stojkovski, Velimir; Gjorgoski, Icko; Ristoski, Tpe International Journal of Polymeric Materials and Polymeric Biomaterials 2020 / p. 1101 - 1111 <https://doi.org/10.1080/00914037.2019.1655754> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

1-butyl-3-methylimidazolium chloride assisted electrospinning of SAN/MWCNTs conductive reinforced composite membranes [Online resource]

Vassiljeva, Viktoria; Krumme, Andres; Märtson, Triin; Rikko, M.; Tarasova, Elvira; Savest, Natalja; Viirsalu, Mihkel Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

1-butyl-3-methylimidazolium chloride assisted electrospinning of SAN/MWCNTs conductive reinforced composite membranes

Gudkova, Viktoria; Krumme, Andres; Märtson, Triin; Rikko, M.; Tarasova, Elvira; Savest, Natalja; Viirsalu, Mihkel Journal of electrostatics 2015 / p. 11-16 : ill <http://dx.doi.org/10.1016/j.elstat.2015.09.002>

Cellulose esters : synthesis in ionic liquid and characterization

Tarasova, Elvira; Šumigin, Dmitri; Krumme, Andres; Viikna, Anti Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 66

Cellulose stearate in melt and plant oil suspension

Krasnou, Illia; Ferrer, Elena Martin; Krumme, Andres Annual Transactions of the Nordic Rheology Society. Vol. 22 2014 / p. 19-22 : ill

Changes in crystallisation kinetics of some high density polyethylenes due to pre-treatment and transcrystallisation of the materials

Krumme, Andres; Lehtinen, Arja Europolymer Congress 2003 : Stockholm, Sweden, June 23-27, 2003 : book of abstracts 2003 / [1] p

Composites of low-density polyethylene and poly(lactic acid) with cellulose and its derivatives = Madaltiheda polüetüleeni ja polü(piiimhappe) komposiidid tselluloosi ning selle derivaatidega
Sumigin, Dmitri 2014 https://www.ester.ee/record=b3078663*est

Crystallisation behaviour of bimodal blends of high-density polyethylene

Krumme, Andres COST P12 : Structuring of Polymers : first workshop : October 27-30, 2004, Bacoli - (Naples) - Italy : book of abstracts 2004 / p. 18

Crystallisation behaviour of high density polyethylene blends with bimodal molar mass distribution

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Crystallisation behaviour of high density polyethylene blends with biomodal molar mass distribution. 1, Basic characteristics and isothermal crystallisation

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Krumme, Andres; Lehtinen, Arja; Viikna, Anti European polymer journal 2004 / 2, p. 371-378 : ill

Crystallization behavior of some unimodal and bimodal linear low-density polyethylenes at moderate and high supercooling

Krumme, Andres; Lehtinen, Arja; Adamovsky, Sergey; Schick, Christoph; Roots, Jaan; Viikna, Anti Journal of polymer science. Part B, Polymer physics 2008 / p. 1577-1588 : ill

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Crystallization of multimodal polyethylene at high cooling rates by combined sals and ultrafast calorimetry methods

Krumme, Andres; Märtson, Triin Baltic Polymer Symposium 2006 : September 20-22, 2006 : programme and proceedings 2006 / p. 12

Design of performance characteristics on laser treated denim fabric

Mandre, Nele; Plamus, Tiia; Linder, Angelika; Varjas, Toivo; Majak, Jüri; Krumme, Andres The materials science = Medžiagotyra 2023 / 10 p. : ill <https://doi.org/10.5755/j02.ms.33259>

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Determination of resistance to wear of particulate composite

Aruniit, Aare; Antonov, Maksim; Kers, Jaan; Krumme, Andres Engineering materials & tribology XXII 2014 / p. 188-191

Development of a faster hot-stage for microscopy studies of polymer crystallization

Märtson, Triin; Ots, Ando; Krumme, Andres; Lõhmus, Ants Polymer testing 2010 / 1, p. 127-131 : ill

Development of electrospun nanostructured electrochemical double-layer capacitor electrodes = Elektrilise kaksikkihi kondensaatori elektrokedratud nanostruktuursete elektroodide arendus

Malmberg, Siret 2021 <https://digikogu.taltech.ee/et/Item/ab0b679b-f1a4-4f69-af49-949f7698e2fc> https://www.ester.ee/record=b5451440*est <https://doi.org/10.23658/taltech.39/2021>

Development of Functional Composite Cu(II)-Polyoxometalate/PLA with Antimicrobial Properties

Duvanova, Ella; Krasnou, Illia; Krumme, Andres; Mikli, Valdek; Rozantsev, Georgiy M.; Radio, Serhii V.; Karpichev, Yevgen Molecules 2022 / art. 2510 <https://doi.org/10.3390/molecules27082510> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of methodology and equipment for studying crystallization behaviour of novel PE materials at high supercooling

Märtson, Triin; Krumme, Andres Baltic Polymer Symposium 2007 : Druskininkai, Lithuania, September 19-21, 2007 : programme and book of abstracts 2007 / p. 45

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

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Malmberg, Siret; Arulepp, Mati; Savest, Natalja; Tarasova, Elvira; Vassiljeva, Viktoria; Krasnou, Illia; Käärik, Maike; Mikli, Valdek; Krumme, Andres Journal of electrostatics 2020 / art. 103396, 7 p. : ill <https://doi.org/10.1016/j.elstat.2019.103396> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

EDLC durable electrodes and capacitor for high frequency applications

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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 http://agronomy.emu.ee/vol133/13_3_2_B5.pdf

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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, Silviya; **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 fibre content, structural parameters, and laser fading on durability and aesthetic properties of multicomponent denim fabric = Kiulise koostise, struktuuri parameetrite ja laserkulutuse mõju mitmekomponentse teksakanga vastupidavusele ja esteetilistele omadustele

Mandre, Nele 2023 <https://doi.org/10.23658/taltech.30/2023> <https://digikogu.taltech.ee/et/Item/c19f3da7-7f69-4fa9-ab59-057adf1fdd33> https://www.eester.ee/record=b5568904*est

The effect of ionic liquids on the mechanical properties of electrospun polyacrylonitrile membranes

Plamus, Tiia; Savest, Natalja; Viirsalu, Mihkel; Harz, Patrick; **Tarasova, Elvira; Krasnou, Illia; Vassiljeva, Viktoria; Kallavus, Urve; Krumme, Andres** Polymer testing 2018 / p. 335-343 : ill <https://doi.org/10.1016/j.polymertesting.2018.09.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of polypropylene grade on hinge properties

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Effect of solvent treatment on crystallisation behaviour of high-density polyethylene

Krumme, Andres; Lehtinen, Arja ISPAC-2004 : 17th International Symposium on Polymer Analysis and Characterization : 6-9 June 2004, Heidelberg, Germany 2004 / p. P38

Electrocatalysts for oxygen reduction reaction based on electrospun polyacrylonitrile, styrene-acrylonitrile copolymer and carbon nanotube composite fibres

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Electrochemical evaluation of directly electrospun carbide-derived carbon-based electrodes in different nonaqueous electrolytes for energy storage applications

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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 a polymer membrane reinforced with carbon nanotubes = Süsinik nanotorudega tugevdatud polümeerse membraani elektroketrus

Vassiljeva, Viktoria 2017 <https://digi.lib.ttu.ee/i/?9129>

Electrospinning of chitosan biopolymer and polyethylene oxide blends

Varnaite-Žuravliova, Sandra; **Savest, Natalja**; Baltušnikaite-Guzaitiene, Julija; Abraitene, Aušra; **Krumme, Andres** Autex research journal 2020 / p. 426–440 : ill <https://doi.org/10.2478/aut-2019-0031> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrospinning of nanofibrous composites with cellulose acetate, ionic liquids and graphene oxide = Tselluloosatsetaadi, ioonsete vedelike ja grafeenoksiidi nanokiuliste komposiitide elektroketrus

Javed, Kashif 2019 <https://digi.lib.ttu.ee/i/?12424>

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 conductive mats from PANI-ionic liquid blends

Savest, Natalja; Plamus, Tiia; Kütt, Kertu; Kallavus, Urve; Viirsalu, Mihkel; Tarasova, Elvira; Vassiljeva, Viktoria; Krasnou, Illia; Krumme, Andres Journal of electrostatics 2018 / p. 40–44 <https://doi.org/10.1016/j.elstat.2018.09.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrospun conductive membranes from Pani-Ionic liquid blends [Online resource]

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Electrospun fibrous materials with propolis extracts for edible food packagings

Zelca, Zane; Merijs-Meri, Remo; **Krumme, Andres;** Bernava, Aina Molecules 2023 / art. 5497 <https://doi.org/10.3390/molecules28145497>

Electrospun materials in triboelectric series

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Krasnou, Illia; Plamus, Tiia; Vassiljeva, Viktoria; Malmberg, Siret; Tarasova, Elvira; Krumme, Andres Baltic Polymer Symposium 2019 : Vilnius, Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 27 : ill [Molecularly imprinted polymers](#)

Electrospun polyacrylonitrile-derived Co and Fe containing nanofibre catalysts for oxygen reduction reaction at the alkaline membrane fuel cell cathode

Mooste, Marek; Kibena-Pöldsepp, Elo; **Vassiljeva, Viktoria;** Kikas, Arvo; Käärik, Maike; Kozlova, Jekaterina; Kisand, Vambola; Külaviir, Marian; Cavaliere, S.; Leis, Jaan; **Krumme, Andres;** Sammelselg, Väino; Holdcroft, Steven; Tammeveski, Kaido ChemCatChem 2020 / p. 4568–4581 : ill <https://doi.org/10.1002/cctc.202000658> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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Equipment for fast crystallisation process studies

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Formation of uniform PVDF fibers under ultrasound exposure in presence of anionic surfactant

Tarasova, Elvira; Tamberg, K.-G.; Viirsalu, Mihkel; Savest, Natalja; Gudkova, Viktoria; Krasnou, Illia; Krumme, Andres
Journal of electrostatics 2015 / p. 39-47 : ill <http://dx.doi.org/10.1016/j.elstat.2015.05.004>

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Krumme, Andres Teejuht : maal, vees ja õhus : Transpordiameti digiajakiri 2024 / lk. 70-71 : fot
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Impact of 1-butyl-3-methylimidazolium chloride on the electrospinning of cellulose acetate nanofibers

Javed, Kashif; Krumme, Andres; Krasnou, Illia; Mikli, Valdek; Viirsalu, Mihkel; Plamus, Tiia; Vassiljeva, Viktoria; Tarasova, Elvira; Savest, Natalja; Mendez, James D. Journal of macromolecular science, part A : pure and applied chemistry 2018 / p. 142-147 : ill <https://doi.org/10.1080/10601325.2017.1387861> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impact of laser fading on physico-mechanical properties and fibre morphology of multicomponent denim fabrics

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Impact of weft yarn density and core-yarn fibre composition on tensile properties, abrasion resistance and air permeability of denim fabrics

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Improving the oxygen barrier of polyamide food packaging by using nanoclay

Paara, Tõnis; Lange, Sven; Saal, Kristjan; Lõhmus, Rünno; Krumme, Andres; Mändar, Hugo Materials science = Medžiagotyra 2022 / p. 217-223 <https://doi.org/10.5755/j02.ms.28868> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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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 cellulose content on rheological and mechanical properties of poly(lactic) acid/cellulose and low-density polyethylene/cellulose composites

Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Meier, Pille 11th International Conference on Wood & Biofiber Plastic Composites & Nanotechnology in Wood Composites Symposium, May 16-18, Madison, USA 2011 / p. 51

Influence of cellulose content on thermal properties of poly(lactic) acid/cellulose and low-density polyethylene/cellulose composites

Šumigin, Dmitri; Tarasova, Elvira; Krumme, Andres; Viikna, Anti 12th International Conference on Biocomposites : Transition to Green Materials : May 6-8, 2012, Niagara Falls, Ontario, Canada 2012 / p. 54

Influence of cellulose content on thermal properties of poly(lactic) acid/cellulose and low-density polyethylene/cellulose composites

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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

Influence of hollow glass microspheres on the mechanical and physical properties and cost of particle reinforced polymer composites

Aruniit, Aare; Kers, Jaan; Majak, Jüri; Krumme, Andres; Tall, Kaspar Proceedings of the Estonian Academy of Sciences 2012 / p. 160-165 : ill https://artiklid.elnet.ee/record=b2535363*est

Influence of molar mass, branching and catalyst type on the behavior of very low temperature crystallization in linear 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

Influence of polypropylene materials to polypropylene hinge strength and durability

Krumme, Andres; Sivonen, M.; Kiilerich, M. Tallinna Tehnikaülikooli Toimetised 1994 / lk. 107-114: ill

Influence of preparation process on morphology and conductivity of carbon black-based electrospun nanofibers

Tarasova, Elvira; Byzova, Arina; Savest, Natalja; Viirsalu, Mihkel; Gudkova, Viktoria; Märton, Triin; Krumme, Andres Fullerenes, nanotubes and carbon nanostructures 2015 / p. 695-700 : ill <http://dx.doi.org/10.1080/1536383X.2014.974090>

Intermolecular interaction of thermoresponsive poly(2-isopropyl-2-oxazoline) in solutions and interpolymer complex with fiber-forming polyethylene oxide

Amirova, Alina; Rodchenko, Serafim; Kurlykin, Mikhail; Tenkovtsev, Andrey; **Krasnou, Illia; Krumme, Andres;** Filippov, Alexander Journal of applied polymer science 2020 / art. 49708, 8 p <https://doi.org/10.1002/app.49708> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of influence of conductivity on the polyaniline fiber mats, produced via electrospinning

Varnaite-Žuravliova, Sandra; **Savest, Natalja;** Abraitienė, Aušra; Baltušnikaitė-Guzaitienė, Julija; **Krumme, Andres** Materials Research Express 2018 / art. 055308 <https://doi.org/10.1088/2053-1591/aac4ea> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The investigation of the production of salt-added polyethylene oxide/chitosan nanofibers

Varnaite-Žuravliova, Sandra; **Savest, Natalja;** Baltušnikaitė-Guzaitienė, Julija; Abraitienė, Aušra; **Krumme, Andres** Materials 2024 / art. 132 <https://doi.org/10.3390/ma17010132>

Ionic liquids recycling

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