

Advanced, universal, and facile gel spinning-based aerogel fibrillation : in situ fabrication of highly stretchable TPU-silica hybrid network in ambient conditions

Omranpour, Hosseinali; Hassanifard, Soran; Monfared, Ali Reza; **Omranpour Shahreza, Babak**; Salehi, Amirmehdi; Jalali, Amirjalal; Kheradmandkeymoussi, Mohamad; Rahman, Saadman Sakib; Behdinin, Kamran; Park, Chul B. Advanced composites and hybrid materials 2024 / art. 105 <https://doi.org/10.1007/s42114-024-00911-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Amphiphilic glycosylated block copolypeptides as macromolecular surfactants in the emulsion polymerization of styrene

Jacobs, Jaco; **Gathergood, Nicholas**; Heuts, Johan P. A.; Heise, Andreas Polymer chemistry 2015 / p. 4634-4640 : ill <https://doi.org/10.1039/C5PY00548E> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Back-calculation of elastic moduli of a ply from the moduli of cross-ply laminates

Lasn, Kaspar; Klauson, Aleksander; Echtermeyer, Andreas T. Mechanics of composite materials 2015 / p. 55-68 : ill <https://doi.org/10.1007/s11029-015-9476-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bacterial polysaccharide levan as stabilizing, non-toxic and functional coating material for microelement-nanoparticles

Bondarenko, Olesja; Ivask, Angela; Kahru, Anne; **Titma, Tiina; Pudova, Ksenia; Adamberg, Signe** Carbohydrate polymers 2015 / p. 710-720 : ill <https://doi.org/10.1016/j.carbpol.2015.09.093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Ivanoska-Dacicj, Aleksandra; Bogoeva-Gaceva, Gordana; **Krumme, Andres; Tarasova, Elvira**; Scalera, Chiara; Stojkovski, Velimir; Gjorgoski, Icko; Ristoski, Trpe 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](#)

Circular production, designing, and mechanical testing of polypropylene-based reinforced composite materials : statistical analysis for potential automotive and nuclear applications

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Sergejev, Fjodor; Krasnou, Illia Polymers 2023 / art. 3410, 30 p. : ill <https://doi.org/10.3390/polym15163410> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

CO2 mineralization by burnt oil shale and cement bypass dust : effect of operating temperature and pre-treatment

Yörük, Can Rüstü; Uibu, Mai; Usta, Mustafa Cem; Kaljuvee, Tiit; Trikket, Andres Journal of thermal analysis and calorimetry 2020 / p. 991–999 : ill <https://doi.org/10.1007/s10973-020-09349-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative analysis of the qualitative characteristics of formaldehyde and acetaldehyde resins based on styrene-modified oil shale alkylresorcinols

Jurkeviciute, Ana; Grigorieva, Larisa; Tõnsuaadu, Kaia; Blum, Kristina Materials research express 2023 / art. 035304, 14 p. : ill <https://doi.org/10.1088/2053-1591/acc0e1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of laminate stiffness as measured by three experimental methods

Lasn, Kaspar; Echtermeyer, Andreas T.; Klauson, Aleksander; Chati, Farid; Decultot, Dominique Polymer testing 2015 / p. 143-152 : ill <https://doi.org/10.1016/j.polymertesting.2015.04.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of green co-solvents on properties and synthesis of cellulose esters in superbase ionic liquid

Tarasova, Elvira; Savale, Nutan Bharat; Trifonova, Lada; Krasnou, Illia; Reile, Indrek; **Kudrjašova, Marina; Mere, Arvo; Kaljuvee, Tiit; Mikli, Valdek**; Sedrik, Rauno; **Krumme, Andres** Cellulose 2024 / p. 4911-4927 <https://doi.org/10.1007/s10570-024-05920-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 protein surface hydrophobicity and surface amines on soy adhesive strength

Kallakas, Heikko; Plaza, Nayomi; Crooks, Casey; Turner, Derek; Gargulak, Mathew; Arvanitis, Matthew A.; Frihart, Charles R.; Hunt, Christopher G. Polymers 2024 / art. 202 <https://doi.org/10.3390/polym16020202> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of surface properties on bond strength of birch, black alder, grey alder and aspen veneers

Rohumaa, Anti; Kallakas, Heikko; Mäetalu, Marja; Savest, Natalja; Kers, Jaan International Journal of Adhesion and Adhesives 2021 / art. 102945 <https://doi.org/10.1016/j.ijadhadh.2021.102945> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effective cross-sectional method for timber frame assemblies - definition of coefficients and zero strength layers
Tiso, Mattia; Just, Alar; Schmid, Joachim; Klippel, Michael Fire and materials 2018 / p. 897-913 : ill <https://doi.org/10.1002/fam.2645>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Efficient lignin fractionation from Scots pine (Pinus sylvestris) using ammonium-based protic ionic liquid : process optimization and characterization of recovered lignin
Khan, Sharib; Rauber, Daniel; Shanmugam, Sabarathinam; Kay, Christopher W. M.; **Konist, Alar;** Kikas, Timo Polymers 2022 / art. 4637, 13 p. : ill <https://doi.org/10.3390/polym14214637> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrocatalysts for oxygen reduction reaction based on electrospun polyacrylonitrile, styrene–acrylonitrile copolymer and carbon nanotube composite fibres
Mooste, Marek; Kibena-Põldsepp, Elo; **Vassiljeva, Viktoria; Uibu, Mai; Krumme, Andres** Journal of materials science 2019 / p. 11618–11634 : ill <https://doi.org/10.1007/s10853-019-03725-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 polyvinyl alcohol reinforced with chitin: The effect of the degree of acetylation
Krumme, Andres; Mendez, James D. Polymers 2024 / art. 1955 <https://doi.org/10.3390/polym16141955> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing the tensile properties of laser repairing Ti-6Al-4V alloys: Optimization of strain distribution based on composition fine-tuning
Zhang, H.; Wang, G.; Yang, S.; Wang, N.; **Prashanth, Konda Gokuldoss;** Ye, Z.; Zhao, K.; Zhang, F.; Tan, H. Journal of Materials Science & Technology 2024 / p. 1-11 <https://doi.org/10.1016/j.jmst.2024.02.065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental mechanics analysis of recycled polypropylene-cotton composites for commercial applications
Hussain, Abrar; Goljandin, Dmitri; Podgurski, Vitali; Abbas, Muhammad Mujtaba; **Krasnou, Illia** Advanced industrial and engineering polymer research 2023 / p. 226-238 : ill <https://doi.org/10.1016/j.aiepr.2022.11.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ferrocene introduced into 5-methylresorcinol-based organic aerogels
Erkhova, Ludmila V.; Presniakov, Igor A.; Afanasov, Michail I.; Lemenovskiy, Dmitry A.; Yu, Haojie; Wang, Li; **Danilson, Mati; Koel, Mihkel** Polymers 2020 / art. 1582 ; 12 p. : ill <https://doi.org/10.3390/polym12071582> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A finite element method for determining the mechanical properties of electrospun nanofibrous mats
Sanchaniya, Jaymin Vrajilal; Lasenko, Inga; Gobins, Valters; Kobeissi, Alaa; **Goljandin, Dmitri** Polymers 2024 / art. 852 <https://doi.org/10.3390/polym16060852> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

First principle calculations of structural, electronic, optical and thermoelectric properties of tin (II) oxide
Solola, G. T.; **Klopov, Mihhail;** Akinami, J. O.; Afolabi, T. A. Materials research express 2019 / art. 125915, 8 p. : ill <https://doi.org/10.1088/2053-1591/ab6384> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hierarchical microstructures and strengthening mechanisms of nano-TiC reinforced CoCrFeMnNi high-entropy alloy composites prepared by laser powder bed fusion
Chen, Hongyu; Kosiba, Konrad; Lu, Twen; Yao, Ning; Liu, Yang; Wang, Yonggang; **Prashanth, Konda Gokuldoss;** Suryanarayana, Challapalli Journal of Materials Science & Technology 2023 / p. 245-259 : ill <https://doi.org/10.1016/j.jmst.2022.06.053> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-speed thermogravimetric analysis of the combustion of wood and Ca-rich fuel
Maaten, Birgit; Konist, Alar; Siirde, Andres Journal of thermal analysis and calorimetry 2019 / p. 2807–2811 <https://doi.org/10.1007/s10973-019-08785-6> Teadlased: [puidu osakaalu suurendamine fossiilkütustes on üks lahendus](#) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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](#)

Importance of the micro-lattice structure of selective laser melting processed Mo/Mo(x)S(x+1) composite: Corrosion studies on the electrochemical performance in aqueous solutions

Alinejadian, Navid; Kazemi, Sayed Habib; **Grossberg-Kuusk, Maarja**; **Kollo, Lauri**; Odnevall, Inger Charlotta; **Prashanth, Konda Gokuldoss** Materials today chemistry 2022 / art. 101219 <https://doi.org/10.1016/j.mtchem.2022.101219> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In vivo assessment of a triple periodic minimal surface based biomimetic gyroid as an implant material in a rabbit tibia model

Khan, Pearlin Amaan; Raheem, Ansheed A.; Kalirajan, Cheirmadurai; **Prashanth, Konda Gokuldoss**; Manivasagam, Geetha ACS Materials Au 2024 / p. 479-488 : ill <https://doi.org/10.1021/acsmaterialsau.4c00016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Industrial approach to circularity of polymer composites : processing, characterization, mechanical testing, and wear regression

Hussain, Abrar; **Podgurski, Vitali**; **Goljandin, Dmitri**; **Antonov, Maksim** Journal of reinforced plastics and composites 2024 / p. 456-472 : ill <https://doi.org/10.1177/07316844231164563> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Industrial sustainable fabrication, SEM characterization, mechanical testing, ANOVA analysis of PP-PETf recycled composites : artificial intelligence and deep learning studies for nuclear shielding applications

Hussain, Abrar; **Goljandin, Dmitri**; **Podgurski, Vitali**; **Yörük, Can Rüstü**; **Sergejev, Fjodor**; **Kübarsepp, Jakob**; **Maurya, Himanshu Singh**; Rahmani Ahranjani, Ramin European polymer journal 2024 / art. 113082 <https://doi.org/10.1016/j.eurpolymj.2024.113082> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Alao, Percy Festus; **Press, Raimond**; Ruponen, Jussi; **Mikli, Valdek**; **Kers, Jaan** Polymers 2023 / art. 3661 <https://doi.org/10.3390/polym15183661> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of the post-granulation treatment on the thermal behaviour and leachability characteristics of Estonian oil shale ashes

Kaljuvee, Tiit; **Jefimova, Jekaterina**; Loide, Valli; **Uibu, Mai**; **Einard, Marve** Journal of thermal analysis and calorimetry 2018 / p. 47-57 : ill <https://doi.org/10.1007/s10973-017-6875-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of waste products from electricity and cement industries on the thermal behaviour of Estonian clay from Kunda deposit

Kaljuvee, Tiit; Štubna, Igor; Hulan, Tomaš; Csaki, Štefan; **Uibu, Mai**; **Jefimova, Jekaterina** Journal of thermal analysis and calorimetry 2019 / p. 2635-2650 : ill <https://doi.org/10.1007/s10973-019-08319-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interaction of CuCl₂ with poly(ethylene glycol) under microwave radiation

Tverjanovich, Andrey; Grevtsev, A. S.; **Bereznev, Sergei** Materials research express 2017 / art. 015006, p. 1-6 : ill <https://doi.org/10.1088/2053-1591/aa52d0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Intermolecular interaction of thermoresponsive poly(l-isopropyl)oxazoline in solutions and interpolymer complex with fiberforming 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 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](#)

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

Varnaite-Žuravliova, Sandra; **Savest, Natalja**; Abraitene, 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](#)

Longitudinal wave propagation in axially graded Rayleigh-Bishop nanorods

Arda, Mustafa; Majak, Jüri; Mehrparvar, Marmar *Mechanics of composite materials* 2024 / p. 1109-1128

<https://doi.org/10.1007/s11029-023-10160-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Material properties of clay and lime plaster for structural fire design

Liblik, Johanna; Küppers, Judith; Just, Alar; Maaten, Birgit; Pajusaar, Siim *Fire and materials* 2021 / p. 355-365 : ill

<https://doi.org/10.1002/fam.2798> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metal oxide nanoparticles embedded in rare-earth matrix for low temperature thermal imaging applications

Rauwel, Erwan; Galeckas, Augustinas; Rauwel, Protima; Hansen, P.-A.; Wragg, David; Nilsen, Ola; Fjellvag, H. *Materials research express* 2016 / p. 1-11 : ill <https://doi.org/10.1088/2053-1591/3/5/055010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mineral matter effect on the decomposition of Ca-rich oil shale

Maaten, Birgit; Loo, Lauri; Konist, Alar; Siirde, Andres *Journal of thermal analysis and calorimetry* 2018 / p. 2087–2091 : ill

<https://doi.org/10.1007/s10973-017-6823-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mo-Cu pseudoalloys by combustion synthesis and spark plasma sintering

Minasyan, Tatevik; Kirakosyan, Hasmik; Aydinian, Sofiya; Liu, Lei; Kharatyan, Suren; Hussainova, Irina *Journal of materials science* 2018 / p. 16598–16608 <https://doi.org/10.1007/s10853-018-2787-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling the fire resistance of cross-laminated timber rib panels

Kleinhenz, Miriam; Palma, Pedro; **Just, Alar**; Frangi, Andrea *Fire and Materials* 2024 / P. 725 - 736 <https://doi.org/10.1002/fam.3226>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecular properties of comb-shaped maleimide copolymers in dilute solutions : effect of alkyl side chains

Tarabukina, Elena; Tarasova, Elvira; Filippov, Alexander *Polymer Science, Series A* 2022 / p. 261-269

<https://doi.org/10.1134/S0965545X22700134> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymer-based electrochemical sensor for the detection of azoxystrobin in aqueous media

Nguyen, Vu Bao Chau; Reut, Jekaterina; Rappich, Jörg; Hinrichs, Karsten; Söritski, Vitali *Polymers* 2024 / art. 1394

<https://doi.org/10.3390/polym16101394> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NiO reduction by Mg plus C combined reducer at high heating rates

Zakaryan, Marieta; Nazaretyan, K.T.; **Aydinian, Sofiya**; Kharatyan, Suren *Journal of thermal analysis and calorimetry* 2021 / p. 1811-1817 : ill <https://doi.org/10.1007/s10973-020-10148-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Non-aldehyde resins based on resorcinol and natural alkylresorcinols modified with styrene

Jurkeviciute, Ana; Grigorieva, Larisa; Tõnsuaadu, Kaia; Yashicheva, Tamara; Bondarev, Dmitrij *Materials research express*

2023 / art. 105301 <https://doi.org/10.1088/2053-1591/acfd12> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel method to enhance the mechanical properties of polyacrylonitrile nanofiber mats: an experimental and numerical investigation

Sanchaniya, Jaymin Vrajla; Lasenko, Inga; Vijayan, Vishnu; Smogor, Hilary; Gobins, Valters; Kobeissi, Alaa; **Goljandin, Dmitri**

Polymers 2024 / art. 992 <https://doi.org/10.3390/polym16070992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Peculiarities of microstructure evolution and property changes of titanium alloys in situ during electric forging

Kommel, Lembit *Materials performance and characterization* 2020 / p. 75–88 : ill <https://doi.org/10.1520/MPC20190109> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Periodic functionalization of graphene-layered alumina nanofibers with aromatic thermosetting copolyester via epitaxial step-growth polymerization

Bakir, Mete; Meyer, Jacob L.; **Hussainova, Irina**; Sutrisno, Andre; Economy, James; Jasiuk, Iwona *Macromolecular chemistry and physics* 2017 / art. 1700338, 6 p. : ill <https://doi.org/10.1002/macp.201700338> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Permeability of water and oleic acid in composite films of phase separated polypropylene and cellulose stearate blends

Krasnou, Illia; Gardebjer, Sofie; Tarasova, Elvira; Larsson, Anette; Westman, Gunnar; Krumme, Andres *Carbohydrate polymers* 2016 / p. 450-458 : tab. <https://doi.org/10.1016/j.carbpol.2016.07.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Physical–mechanical properties and morphology of filled low-density polypropylene: comparative study on calcium carbonate with oil shale and coal ashes

Krasnou, Illia; Nadeem, Faisal; Gregor, Andre; Yörük, Can Rüstü; Krumme, Andres Journal of Vinyl and Additive Technology 2022 / p. 94-103 : ill <https://doi.org/10.1002/vnl.21869> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Poly(alkanoyl isosorbide methacrylate)s : from amorphous to semicrystalline and liquid crystalline biobased materials
Laanesoo, Siim; Bonjour, Olivier; **Parve, Jaan; Parve, Omar**; Matt, Livia; Vares, Lauri; Jannasch, Patric Biomacromolecules 2021 / p. 640-648 <https://doi.org/10.1021/acs.biomac.0c01474> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Potential of solid residues from power plants as thermochemical energy storage materials

Maaten, Birgit; Konist, Alar; Siirde, Andres Journal of thermal analysis and calorimetry 2020 / p. 1799-1805

<https://doi.org/10.1007/s10973-020-09948-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preparation of a surface-grafted protein-selective polymer film by combined use of controlled/living radical photopolymerization and microcontact imprinting

Kidakova, Anna; Reut, Jekaterina; Rappich, Jörg; **Öpik, Andres; Söritski, Vitali** Reactive and functional polymers 2018 / p. 47-56

<https://doi.org/10.1016/j.reactfunctpolym.2018.02.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preparation of thermoplastic cellulose esters in [mTBNH][OAC] ionic liquid by transesterification reaction

Tarasova, Elvira; Savale, Nutan Bharat; Krasnou, Illia; Kudrjašova, Marina; Rjabovs, Vitalijs; Reile, Indrek; Vares, Lauri;

Kallakas, Heikko; Kers, Jaan; **Krumme, Andres** Polymers 2023 / art. 3979 <https://doi.org/10.3390/polym15193979> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Properties of glass filled polypropylene for fused filament fabrication

Spörk, Martin; **Savandaiah, Chethan**; Arbeiter, Florian; Schuschnigg, Stephan; Holzer, Clemens SPE ANTEC 2017, Anaheim, California, USA, 8-10 May 2017 / p. 105-111 : ill <https://www.proceedings.com/content/052/052413webtoc.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Propolis nanofibers : development and effect against SARS-CoV-2 virus and S. aureus, S. enterica bacteria

Zelca, Zane; **Krumme, Andres**; Kukle, Silvija; **Krasnou, Illia** Materials today chemistry 2023 / art. 101749

<https://doi.org/10.1016/j.mtchem.2023.101749> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

QSAR of heterocyclic compounds in large descriptor spaces

Karelson, Mati; Dobchev, Dimitar Atanasov Advances in Heterocyclic Chemistry ; Vol. 120 2016 / p. 237 - 273

<https://doi.org/10.1016/bs.aihch.2016.03.006> [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article collection metrics at WOS](#) [Article at WOS](#)

Reaction pathway to CZTSe formation in CdI₂ : Part 2: Chemical reactions and enthalpies in mixtures of CdI₂-CuSe-SnSe and CdI₂-CuSe-SnSe-ZnSe

Leinemann, Inga; Pilvet, Maris; Kaljuvee, Tiit; Traksmäa, Rainer; Altosaar, Mare Journal of thermal analysis and calorimetry 2018 / p. 433-441 <https://doi.org/10.1007/s10973-018-7415-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reaction pathway to Cu₂ZnSnSe₄ formation in CdI₂ : part 1. Chemical reactions and enthalpies in mixtures of CdI₂-ZnSe, CdI₂-SnSe, and CdI₂-CuSe

Leinemann, Inga; Nkwusi, Godswill; Timmo, Kristi; Volobujeva, Olga; Danilson, Mati; Raudoja, Jaan vt.ka Mädasson, Jaan; Kaljuvee, Tiit; Traksmäa, Rainer; Altosaar, Mare; Meissner, Dieter Journal of thermal analysis and calorimetry 2018 / p.409 - 421

: ill <https://doi.org/10.1007/s10973-018-7102-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reactive extrusion of cellulose esters in ionic liquid: exploring properties and performance across different cellulose types and degrees of polymerization

Tarasova, Elvira; Krasnou, Illia; Enkhsaikhan, Giiguulen; Abousharabia, Ibrahim; Nunes, Caio César Zandonadi;

Kartheesu, Darshni; Savale, Nutan Bharat; Kontturi, Eero; **Krumme, Andres** Cellulose 2024 / p. 10223-10240 : ill

<https://doi.org/10.1007/s10570-024-06203-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reduction mechanism of WO₃ + CuO mixture by combined Mg/C reducer : non-isothermal conditions - high heating rates

Aydinyan, Sofiya; Nazaretyan, Khachatur; Zargaryan, A.G.; Tumanyan, M.E.; Kharatyan, Suren Journal of thermal analysis and calorimetry 2018 / p. 261-269 : ill <https://doi.org/10.1007/s10973-018-6985-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The role of paradigms and technical strategies for implementation of the circular economy in the polymer and composite recycling industries

Hussain, Abrar; Podgurski, Vitali; Viljus, Mart; Awan, Muhammad Rizwan Advanced Industrial and Engineering Polymer Research 2023 / p. 1-12 <https://doi.org/10.1016/j.aiepr.2022.10.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

SET-LRP of bio- and petroleum-sourced methacrylates in aqueous alcoholic mixtures

Moreno, Adrian; Bensabeh, Nabil; **Parve, Jaan**; Ronda, Juan C.; Cádiz, Virginia; Galià, Marina; Vares, Lauri; Lligadas, Gerard; Percec, Virgil *Biomacromolecules* 2019 / p. 1816 - 1827 <https://doi.org/10.1021/acs.biomac.9b00257> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Static response and buckling loads of multilayered composite beams using the refined Zigzag theory and Higher-Order Haar Wavelet method

Sorrenti, M.; Di Sciuva, M.; **Majak, Jüri**; Auriemma, Fabio *Mechanics of composite materials* 2021 / 18 p <https://doi.org/10.1007/s11029-021-09929-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sulfur in kukersite shale oil : its distribution in shale oil fractions and the effect of gaseous environment

Mozaffari, Sepehr; Baird, Zachariah Steven; Järvik, Oliver *Journal of thermal analysis and calorimetry* 2022 / p. 11601-11610 <https://doi.org/10.1007/s10973-022-11359-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Surface-active thermally responsive hydrogels by emulsion sedimentation for smart window applications

Timusk, Martin; Locs, Janis; Kangur, Triin; Kasikov, Aarne; **Kurnitski, Jarek**; Šutka, Andris *ACS applied polymer materials* 2023 / p. 5937-5950 : ill <https://doi.org/10.1021/acsapm.3c00600> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and hydrodynamic and conformation properties of star-shaped polystyrene with calix[8]arene core

Simonova, Maria; **Tarasova, Elvira**; Dudkina, Marina *International journal of polymer analysis and characterization* 2019 / p. 87-95 : ill <https://doi.org/10.1080/1023666X.2018.1555894> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and investigation of thermo-induced gelation of partially cross-linked poly-2-isopropyl-2-oxazoline in aqueous media

Amirova, Alina; Rodchenko, Serafim; Kurlykin, Mikhail; Tenkovtsev, Andrey; **Krasnou, Illia**; **Krumme, Andres**; Filippov, Alexander *Polymers* 2020 / art. 698, 13 p. : ill <https://doi.org/10.3390/polym12030698> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tensile and surface wettability properties of the solvent cast cellulose fatty acid ester films

Kallakas, Heikko; **Kattamanchi, Tanuj**; **Kilumets, Catherine**; Tarasova, Elvira; Krasnou, Illia; Savest, Natalja; **Ahmadian, Iman**; **Kers, Jaan**; Krumme, Andres *Polymers* 2023 / art. 2677 <https://doi.org/10.3390/polym15122677> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of Zinc Oxide on DLP hybrid composite manufacturability and mechanical-chemical resistance

Baroninš, Janis; **Antonov, Maksim**; Abramovskis, Vitalijs; Rautmane, Aija; Lapkovskis, Vjaceslavs; Bockovs, Ivans; Goel, Saurav; Kumar Thakur, Vijay; Shishkin, Andrei *Polymers* 2023 / art. 4679, p. 1–19 <https://doi.org/10.3390/polym15244679> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of the firing temperature on the hardness of alumina porcelain

Štubna, Igor; Šin, Peter; **Viljus, Mart**; Trnik, Anton *Materials and technology = Materiali in tehnologije* 2014 / p. 331-336 : ill <http://mit.imt.si/izvodi/mit143/stubna.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal behaviour of Estonian phosphorites from different deposits

Kaljuvee, Tiit; **Tõnsuaadu, Kaia**; **Traksmäa, Rainer**; **Einard, Marve**; Jefimova, Jekaterina; Petkova, Vilma *Journal of thermal analysis and calorimetry* 2020 / p. 437-449 <https://doi.org/10.1007/s10973-019-09056-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal decomposition of tris(O-ethylthiocarbonato)-antimony(III) - a single-source precursor for antimony sulfide thin films

Eensalu, Jako Siim; **Tõnsuaadu, Kaia**; **Adamson, Jasper**; **Oja Acik, Ilona**; **Krunks, Malle** *Journal of thermal analysis and calorimetry* 2022 / p. 4899-4913 : ill <https://doi.org/10.1007/s10973-021-10885-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Thermoplastic cellulose stearate and cellulose laurate : melt rheology, processing and application potential

Krasnou, Illia; **Tarasova, Elvira**; **Märtson, Triin**; **Krumme, Andres** *International polymer processing* 2015 / p. 210-216 <https://doi.org/10.3139/217.2980> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TiCN coating tribology for the circular economy of textile industries

Hussain, Abrar; **Podgurski, Vitali**; **Antonov, Maksim**; **Viljus, Mart**; **Goljandin, Dmitri** *Journal of industrial textiles* 2022 / p. 8947S-8959S <https://doi.org/10.1177%2F15280837211025726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Value for money : a cost-effectiveness analysis of microplastic analytics in seawater

Meyers, Nelle; Kopke, Kathrin; **Buhhalko, Natalja**; Mattsson, Karin; Janssen, Colin R.; Everaert, Gert; De Witte, Bavo Microplastics and nanoplastics 2024 / art. 4 <https://doi.org/10.1186/s43591-024-00081-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Young's modulus of illitic clay in the temperature region of quartz transition

Hulan, Tomáš; Štubna, Igor; **Kaljuvee, Tiit**; Knapek, Michal Journal of thermal analysis and calorimetry 2022 / p. 7701-7707 <https://doi.org/10.1007/s10973-021-11083-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)