

## **Advanced sensing materials based on molecularly imprinted polymers towards developing point-of-care diagnostics devices**

**Kidakova, Anna; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Söritski, Vitali** Proceedings of the Estonian Academy of Sciences 2019 / p. 158–167 : ill <https://doi.org/10.3176/proc.2019.2.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Aggregate planning of hydro spa equipment product family**

**Karjust, Kristo; Küttner, Rein** Proceedings of the 5th International Conference of DAAAM Baltic : Industrial Engineering - Adding Innovation Capacity of Labour Force and Entrepreneur : 20-22 April 2006, Tallinn, Estonia 2006 / p. 197-202 : ill

## **Allan Niidu teeb süsihappegaasist materjalide ehitusplokke**

arileht.delfi.ee 2023 [Allan Niidu teeb süsihappegaasist materjalide ehitusplokke](#)

## **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](#)

## **An integrated electroactive polymer sensor-actuator : design, model-based control, and performance characterization**

**Hunt, Andres**; Chen, Zheng; Tan, K.; **Kruusmaa, Maarja** Smart materials and structures 2016 / art. 035016, p. 1-16 : ill <https://doi.org/10.1088/0964-1726/25/3/035016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Analysis of extracellular polymeric substances from pre-treated sludge by high-performance size exclusion chromatography**

**Lepane, Viia; Menert, Anne**; Michelis, Merje; **Rikmann, Ergo; Vilu, Raivo** International Symposium Analytical Forum 2004 : Warsaw, Poland : Book of abstracts 2004 / p. 202

## **Anisotropic percolating pathways in the thin films of polymeric PEDT/PSS complex and their relation to the electrical conductivity as revealed by the mesoscale simulation**

**Kaevand, Toomas; Kalda, Jaan; Öpik, Andres; Lille, Ülo** Technological developments in networking, education and automation 2010 / p. 263-268 [https://link.springer.com/chapter/10.1007/978-90-481-9151-2\\_46](https://link.springer.com/chapter/10.1007/978-90-481-9151-2_46)

## **Anorgaanilised pooljuhtühendid ja elektrit juhtivad polümeerid - üheskoos ja eraldi uute väljundite otsingul**

**Öpik, Andres** Teadusmõtte Eestis : täppisteadused : [artiklikogumik] 2006 / lk. 207-216 : ill [https://www.ester.ee/record=b2230239\\*est](https://www.ester.ee/record=b2230239*est)

## **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 [https://www.researchgate.net/publication/245525338\\_Application\\_of\\_Particle\\_Swarm\\_Optimisation\\_to\\_Evaluation\\_of\\_Polymer\\_Cure\\_Kinetics\\_Models](https://www.researchgate.net/publication/245525338_Application_of_Particle_Swarm_Optimisation_to_Evaluation_of_Polymer_Cure_Kinetics_Models)

## **Application-oriented performance characterization of the ionic polymer transducers (IPTs) = loonpolümeeridest täiturite võimekuse karakteriseerimine rakendusteks**

**Hunt, Andres** 2017 <https://digi.lib.ttu.ee/i/77576> [https://www.ester.ee/record=b4670806\\*est](https://www.ester.ee/record=b4670806*est)

## **Arvutusvõimalusi polümeeriteaduses**

**Christjanson, Peep** 2005 [http://www.ester.ee/record=b2096726\\*est](http://www.ester.ee/record=b2096726*est)

## **Assessing the potential of furan polymer-based resin development in bonded veneer processing factors on adhesive bond strength**

**Matsi, Mikk; Rohumaa, Anti; Piirlaid, Marko**; Hughes, Mark; **Meier, Pille** Proceedings of the 6th meeting of the Nordic-Baltic Network in Wood Material Science and engineering (WSE) : October 21-22, 2010, Tallinn, Estonia 2010 / p. 193

## **Baltic Polymer Symposium 2005 : [toimub 19.-21. okt. TTÜ keemia- ja materjalitehnoloogia teaduskonna korraldamisel : eelteade]**

Mente et Manu 2005 / 19. okt., lk. 5 [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

## **Biomass derived fibers as a substitute to synthetic fibers in polymer composites**

**Qasim, Umair**; Ali, Muzaffar; Ali, Touqeer; Iqbal, Rameez; Jamil, Farrukh ChemBioEng Reviews 2020 / p. 193-215 <https://doi.org/10.1002/cben.202000002>

## **Biotundlikud süsteemid molekulaarselt jäljendatud elektrit juhtivatest polümeeridest**

**Öpik, Andres; Reut, Jekaterina; Söritski, Vitali; Tretjakov, Aleksei** Tallinna Tehnikaülikooli aastaraamat 2012 2013 / lk. 40-44 : ill

## **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

### **Characterization of organosolv lignins and their application in the preparation of aerogels**

Jõul, Piia; Ho, Tran T.; Kallavus, Urve; Konist, Alar; Leiman, Kristiina; Salm, Olivia-Stella; Kulp, Maria; Koel, Mihkel; Lukk, Tiit Materials 2022 / art. 2861 <https://doi.org/10.3390/ma15082861> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of resorcinol- and phenol-formaldehyde prepolymers by <sup>1</sup>H NMR spectroscopy**

Christjanson, Peep; Suurpere, Aime; Kõösel, Arne-Enn Oil shale 1996 / 2, p. 115-122

### **Chemical structure of some polymers obtained by step-growth polymerisation**

Christjanson, Peep Proceedings of Baltic Polymer Symposium 2001 : Oct. 11-12 in Tallinn 2001 / p. 46-53 : ill

### **Chirogenesis in Chemical Science**

2023 <https://doi.org/10.1142/12915> [https://www.ester.ee/record=b5748359\\*est](https://www.ester.ee/record=b5748359*est)

### **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](#)

### **Comparative characterization of semicoking oils obtained from rubber wastes and from co-processing of kukersite oil shale and rubber wastes in solid heat-carrier unit**

Võssotskaja, V.; Liiv, Milana; Kann, Jüri Oil shale 1999 / 4, p. 343-349: ill [https://artiklid.elnet.ee/record=b1002745\\*est](https://artiklid.elnet.ee/record=b1002745*est)

### **Comparative study of perhydropolysilazane protective films**

Shmagina, Elizaveta; Danilson, Mati; Mikli, Valdek; Bereznev, Sergei Surface engineering 2022 / p. 769-777 : ill <https://doi.org/10.1080/02670844.2022.2155445> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Comparative study of siox layers deposition using thermal and uv-assisted curing of perhydropolysilazane**

Shmagina, Elizaveta; Bereznev, Sergei GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 50 [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)

### **A computational approach for rational monomer selection in molecularly imprinted polymer synthesis = Monomeeride valiku protsessi modelleerimine optimaalse monomeeri leidmiseks molekulaarselt jäljendatud polümeeride sünteesil**

Boroznjak, Roman 2017 <https://digi.lib.ttu.ee/i/?7629>

### **A computational approach to study functional monomer|protein molecular interactions to optimize protein molecular imprinting**

Boroznjak, Roman; Reut, Jekaterina; Tretjakov, Aleksei; Lomaka, Andre; Öpik, Andres; Sõritski, Vitali Journal of molecular recognition 2017 / art. e2635, p. 1-9 : ill <https://doi.org/10.1002/jmr.2635> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Conductive polymers as active materials for environmental sensors**

Sõritski, Vitali; Bereznev, Sergei; Öpik, Andres Proceedings of the Estonian Academy of Sciences. Chemistry 1998 / 2, p. 60-72: ill

### **Co-pyrolysis of Estonian oil shale with polymer wastes = Eesti põlevkivi ja polümeerjäätmete koospürolüüs**

Pihl, Olga 2022 <https://doi.org/10.23658/taltech.36/2022> [https://www.ester.ee/record=b5503196\\*est](https://www.ester.ee/record=b5503196*est) <https://digikogu.taltech.ee/et/Item/ab6c2255-91b6-4ce5-b26e-95665266870e>

### **Correlated percolating networks in the thin film of polymeric PEDT/PSS complex as revealed by the mesoscale simulation**

Kaevand, Toomas; Kalda, Jaan; Öpik, Andres; Lille, Ülo Macromolecules 2009 / 4, p. 1407-1409 : ill <https://pubs.acs.org/doi/abs/10.1021/ma802160x>

### **Dealkylation kinetics of alkylresorcinols by shock heating pyrolysis**

Luik, Hans; Tiikma, Laine; Johannes, Ille; Kruusement, Kristjan 20th International Symposium on Analytical and Applied Pyrolysis : PYRO 2014 : 19-23 May 2014, Birmingham, UK : conference guide and abstracts 2014 / p. 79

### **Degradation of a poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) compound in different environments**

Lyshtva, Pavlo; Voronova, Viktoria; Barbir, Jelena; Filho, Walter Leal; Kröger, Silja Denise; Witt, Gesine; Miksch, Lukas; Sabowski, Reinhard; Gutow, Lars; Frank, Carina Heliyon 2024 / art. e24770 <https://doi.org/10.1016/j.heliyon.2024.e24770>

### **Department of Wood, polymers and textile**

Christjanson, Peep; Piiraja, Eduard Research activities / Tallinn Technical University 1993 / p. 49-52 [https://www.ester.ee/record=b1053754\\*est](https://www.ester.ee/record=b1053754*est)

**Determination of physical, mechanical and burning characteristics of polymeric waste material briquettes**

**Kers, Jaan; Kulu, Priit; Aruniit, Aare; Laurmaa, Viktor;** Križan, Peter; Šooš, Lubomir; **Kask, Ülo** Estonian journal of engineering 2010 / p. 307-316 : ill

**Development of a biosensor for label-free detection of proteins combining the surface acoustic wave platform and molecularly imprinted polymers**

**Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres** Baltic Polymer Symposium 2014 : programme and abstracts : Laulasmaa, Estonia, September 24-26, 2014 2014 / p. 46

**Development of a biosensor for label-free detection of proteins combining the surface acoustic wave platform and molecularly imprinted polymers**

**Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres** Proceedings of The 8th International Conference on Molecular Imprinting (MIP2014). Session 8 2014 / p. P-007

**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 a portable MIP-based electrochemical sensor for detection of SARS-CoV-2 antigen**

**Raziq, Abdul; Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** Biosensors and bioelectronics 2021 / art. 113029 <https://doi.org/10.1016/j.bios.2021.113029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of a strategy for preparation of protein surface imprinted electrosynthesized conducting polymer thin films**

**Kaev, Jevgeni; Tretjakov, Aleksei; Reut, Jekaterina; Sõritski, Vitali;** Gyurcsanyi, Robert E.; **Öpik, Andres** Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 138

**Development of a surface imprinting strategy based on a covalently immobilized protein**

**Boroznjak, Roman; Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres** Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 126

**Development of conductive polymer materials for anti-corrosion and sensor applications**

**Öpik, Andres;** Golovtsov, Igor; **Idla, Katrin; Sõritski, Vitali** Stambiamolekulių junginių chemija ir technologija = Polymer chemistry and technology 1997 / p. 133-142

**Development of electromechanical actuators ("artificial muscles") based on electrically conductive polymers**

**Idla, Katrin;** Strandberg, Marek Proceedings of Baltic Polymer Symposium 2001 : Oct. 11-12 in Tallinn 2001 / p. 88-90 : ill

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

**Duvanov, 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](#)

**A distributed model of ionomeric polymer metal composite**

**Punning, Andres;** Johanson, Urmas; Anton, Mart; Aabloo, Alvo; **Kruusmaa, Maarja** Journal of intelligent material systems and structures 2009 / p. 1711-1724 : ill <https://doi.org/10.1177/1045389X0933717>

**Dynamical equivalence between resonant translocation of a polymer chain and diversity-induced resonance**

**Patriarca, Marco;** Scialla, Stefano; Heinsalu, Els; Yamakou, Marius E.; Cartwright, Julian H. E. Chaos : An Interdisciplinary Journal of Nonlinear Science 2025 / art. 073115 <https://doi.org/10.1063/5.0262633>

**Effect of composite layers based on dyes with different type of conductivity on photovoltaic properties of CIS films**

**Verbitsky, Anatoly; Vertsimakha, Yaroslav; Studzinsky, Sergei; Bereznev, Sergei** ICEPOM-6 conference abstracts : 6th International Conference on Electronic Processes in Organic Materials : Gurzuf, Crimea, Ukraine, September 25-29, 2006 2006 / p. 54-55 [https://www.researchgate.net/publication/233173021\\_Effect\\_of\\_Composite\\_Layers\\_Based\\_on\\_Dyes\\_with\\_Different\\_Types\\_of\\_Conductivity\\_on\\_Photovoltaiic\\_Properties\\_of\\_CIS\\_Films](https://www.researchgate.net/publication/233173021_Effect_of_Composite_Layers_Based_on_Dyes_with_Different_Types_of_Conductivity_on_Photovoltaiic_Properties_of_CIS_Films)

**Effect of composite layers based on dyes with different type of conductivity on photovoltaic properties of CIS films**

**Verbitsky, Anatoly; Vertsimakha, Yaroslav; Studzinsky, Sergei; Bereznev, Sergei; Kois, Julia** Molecular crystals and liquid crystals 2007 / p. 123-133 <https://www.tandfonline.com/doi/full/10.1080/15421400701221245>

**Effect of polymer layer deposition and annealing on photovoltaic properties of CuInS<sub>2</sub>/polymer structures**

**Verbitsky, Anatoly; Vertsimakha, Yaroslav; Studzinsky, Sergei; Bereznev, Sergei; Golovtsov, Igor; Kois, Julia; Öpik, Andres;** Lytvyn, Oksana Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 18-23 : ill

**Effect of the length of branches on hydrodynamic and conformational properties of hyperbranched polycarbosilanes**

Tarabukina, E.; Shpyrkov, A.; **Tarasova, Elvira**; Amirova, A.; Filippov, Alexander; Sheremet'eva, N.; Muzafarov, A. Polymer science series A 2009 / 2, p. 150-160 <https://link.springer.com/article/10.1134/S0965545X09020023>

### **Electrically conductive polymers - from imperfect crystals to functional materials**

**Õpik, Andres** Proceedings of Baltic Polymer Symposium 2002, Nida, September 18-20, 2002 2002 / p. 9-14 : ill

### **Electrically conductive polymers for solar energy conversion**

**Õpik, Andres; Bereznev, Sergei** Baltic Polymer Symposium 2006 : September 20-22, 2006 : programme and proceedings 2006 / p. 2

### **Electroactive polymer actuators with carbon aerogel electrodes**

Palmre, Viljar; Lust, Enn; Jänes, Alar; **Koel, Mihkel; Peikolainen, Anna-Liisa**; Torop, Janno; Johanson, Urmas; Aabloo, Alvo Journal of materials chemistry 2011 / p. 2577-2583 : ill <https://pubs.rsc.org/en/content/articlelanding/2011/jm/c0jm01729a>

### **Electrochemical sensor based on molecularly imprinted polymer for rapid quantitative detection of brain-derived neurotrophic factor**

**Ayankojo, Akinrinade George; Boroznjak, Roman; Reut, Jekaterina; Tuvikene, Jürgen; Timmusk, Tõnis; Sõritski, Vitali** Sensors and Actuators B: Chemical 2023 / art. 134656 <https://doi.org/10.1016/j.snb.2023.134656> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrochemically synthesized MIP sensors : applications in healthcare diagnostics**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali** Biosensors 2024 / art. 71 <https://doi.org/10.3390/bios14020071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrochemically synthesized MIPs for sensor applications in healthcare diagnostics**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali** Molecularly imprinted polymers : Computational studies to advanced applications 2025 / p. 167-197 [https://doi.org/10.1007/978-3-031-67368-9\\_6](https://doi.org/10.1007/978-3-031-67368-9_6)

### **Electrodeposition of CdSe nanofibers as photo-active matrix for polymer solar cells**

**Kois, Julia; Bereznev, Sergei; Gurevič, Jelena; Mellikov, Enn; Õpik, Andres** Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 122

### **Electrosynthesized conducting polymers, polypyrrole and poly(3,4-ethylenedioxythiophene), for molecular imprinting**

**Õpik, Andres; Menaker, Anna; Reut, Jekaterina; Sõritski, Vitali**; Malikova, O.; Kaev, Jevgeni; Kovtun, Aleksandr Book of abstracts of Baltic Polymer Symposium 2009 : Ventspils, Latvia, 22-25 September, 2009 2009 / ? p

### **Electrosynthesized conducting polymers, polypyrrole and poly(3,4-ethylenedioxythiophene), for molecular imprinting = Molekulaarselt jäljendatud süsteemid elektrokeemiliselt sünteesitud elektrit juhtivate polümeeride - polüüpürrooli ja polü(3,4-etiüleendioksiütiofeeni baasil**

**Menaker, Anna** 2009 [https://www.ester.ee/record=b2491805\\*est](https://www.ester.ee/record=b2491805*est)

### **Electrosynthesized molecularly imprinted polymer thin films for antibiotics selective recognition**

**Tretjakov, Aleksei; Zhang, Y.; Reut, Jekaterina; Sõritski, Vitali; Õpik, Andres** Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 115

### **Electrosynthesized molecularly imprinted polypyrrole films for enantioselective recognition of L-aspartic acid**

**Sõritski, Vitali; Reut, Jekaterina; Menaker, Anna**; Gyurcsanyi, Robert E.; **Õpik, Andres** Electrochimica acta 2008 / 6, p. 2729-2736 : ill <https://www.sciencedirect.com/science/article/pii/S0013468607012947>

### **Electrosynthesized molecularly imprinted PEDOT microrods for IGG molecular recognition**

**Kovtun, Aleksandr; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres** Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 149

### **Electrosynthesized surface-imprinted conducting polymer microrods for selective protein recognition**

**Menaker, Anna; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres**; Horvath, Viola; Gyurcsanyi, Robert E. Advanced materials 2009 / p. 2271-2275 : ill <https://onlinelibrary.wiley.com/doi/abs/10.1002/adma.200803597>

### **Elektrit juhtivast polümeerist elektroodid vesilahustes**

**Idla, Katrin; Õpik, Andres**; Forsen, Olof XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 26-28

### **Enhancing binding properties of imprinted polymers for the detection of small molecules**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Õpik, Andres; Tretjakov, Aleksei; Sõritski, Vitali** Proceedings of the Estonian Academy of Sciences 2018 / p. 138-146 : ill <https://doi.org/10.3176/proc.2018.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Euroopa polümeeride uurijad koos TTÜs : [19.-21. okt. toimunud keemia- ja materjalitehnoloogia teaduskonna korraldatud konverentsist]**

**Ummelas, Mart** Mente et Manu 2005 / 2. nov., lk. 2 [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**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](#)

**Feedback control of a coupled IPMC (Ionic Polymer-Metal Composite) sensor-actuator**

**Hunt, Andres; Tan, Xiaobo; Chen, Zheng; Kruusmaa, Maarja** Proceedings of ASME Dynamic Systems Control Conference : California, USA, 12-14.10.2009 2009 / ? p <https://asmedigitalcollection.asme.org/DSCC/proceedings/DSCC2009/48920/485/346423>

**Foreword**

**Õpik, Andres** Proceedings of the Estonian Academy of Sciences 2012 / p. 149

**Glass/ITO/In(O,S)/CuIn(S,Se)<sub>2</sub> solar cell with conductive polymer window**

**Kois, Julia; Bereznev, Sergei; Raudoja, Jaan; Mellikov, Enn; Õpik, Andres** The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 44 <https://www.sciencedirect.com/science/article/abs/pii/S0927024804003836>

**Growth and properties of ZnO films on polymeric substrate by spray pyrolysis method**

**Kriisa, Merike; Kärber, Erki; Krunks, Malle; Mikli, Valdek; Unt, Tarmo; Kukk, Mart; Mere, Arvo** Thin solid films 2014 / p. 87-92 : ill <https://doi.org/10.1016/j.tsf.2013.05.150> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**High vacuum evaporation of n-CuIn<sub>3</sub>Se<sub>5</sub> photoabsorber films for hybrid PV structures with conductive polymers**

**Adhikari, Nirmal; Bereznev, Sergei; Laes, Kristjan; Kois, Julia; Volobujeva, Olga; Raadik, Taavi; Õpik, Andres; Traksmaa, Rainer; Tverjanovich, Andrey** Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 124 [https://www.researchgate.net/publication/257710082\\_High-Vacuum\\_Evaporation\\_of\\_n-CuIn3Se5\\_Photoabsorber\\_Films\\_for\\_Hybrid\\_PV\\_Structures](https://www.researchgate.net/publication/257710082_High-Vacuum_Evaporation_of_n-CuIn3Se5_Photoabsorber_Films_for_Hybrid_PV_Structures)

**High vacuum evaporation of n-CuIn<sub>3</sub>Se<sub>5</sub> photoabsorber films for hybrid structures**

**Adhikari, Nirmal; Bereznev, Sergei; Laes, Kristjan; Volobujeva, Olga; Õpik, Andres** EMRS-2010 Spring Meeting : Strasbourg, France, June 7-11 : program and book of abstracts. Symposium M 2010 / p. 8

**Highlights of Estonian Engineering and Technology Sciences**

Higher Education and Research in Estonia 2019 / p. 45 : ill <https://www.digar.ee/viewer/et/nlib-digar:434236/368591/page/47> [https://www.ester.ee/record=b5246114\\*est](https://www.ester.ee/record=b5246114*est)

**High-temperature doping of polyparaphenylene with halogens**

**Õpik, Andres;** Ahven, Tarmo Solid state communications 1990 / 10, p. 661-664: ill

**Hybrid solar cells based on inorganic thin film structures and conjugated polymers**

**Kois, Julia; Bereznev, Sergei; Raudoja, Jaan; Mellikov, Enn; Õpik, Andres** Proceedings of SPIE 2005 / Optical materials and applications, p. 59460V-1 - 59460V-6 : ill

**Impacts of lubricating oils on rheology and chemical compatibility of asphalt binders**

**Teymourpour, Pouya; Sillamäe, Sven;** Bahia, Hussain U. Road Materials and Pavement Design 2015 / p. 50 - 74 <https://doi.org/10.1080/14680629.2015.1030833> [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>

**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

[https://www.researchgate.net/publication/267408407\\_Influence\\_of\\_cellulose\\_content\\_on\\_thermal\\_properties\\_of\\_poly\(lactic\\_acid\)/cellulose\\_and\\_low-density\\_polyethylenecellulose\\_composites](https://www.researchgate.net/publication/267408407_Influence_of_cellulose_content_on_thermal_properties_of_poly(lactic_acid)/cellulose_and_low-density_polyethylenecellulose_composites)

**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

<https://doi.org/10.4028/www.scientific.net/KEM.559.99> Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

**Inkjet-printed hybrid conducting polymer-activated carbon aerogel linear actuators driven in an organic electrolyte**

**Põdsalu, Inga; Harjo, Madis; Tamm, Tarmo; Uibu, Mai; Peikola, Anna-Liisa; Kiefer, Rudolf** Sensors and actuators B : chemical 2017 / p. 44-51 : ill <https://doi.org/10.1016/j.snb.2017.04.138> 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**

**Varnaitė-Žuravliovaitė, 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

**Investigation of tribological characteristics of polymers used in medicine**

**Andriushchenko, Ekaterina; Semenova, Vlada; Yuan, Pan** New Materials and Technologies in Mechanical Engineering : International Scientific Conference "New Materials and Technologies in Mechanical Engineering" (NMTME 2019) 2019 / p. 656-661 <https://doi.org/10.4028/www.scientific.net/KEM.822.656>

**Ionic liquid-carbon-polymer composite actuator based on carbon aerogel electrodes**

**Kaasik, Friedrich; Must, Indrek; Torop, Janno; Peikola, Anna-Liisa; Aabloo, Alvo** SustainChem2011 : International Conference on Materials and Technologies for Green Chemistry jointly with Workshop of COST Action CM0903 (UBIOCHEM-II) : September 5-9, 2011, Tallinn, Estonia : abstract book and program 2011 / p. 112 : ill

**Isosorbide-based polymers as alternatives to conventional plastics**

**Matt, Livia; Laanesoo, Siim; Bonjour, Olivier; Parve, Jaan; Parve, Omar; Pehk, Tõnis; Pham, Thanh Huong; Liblikas, Ilme; Jannasch, Patric; Vares, Lauri** Abstract from Baltic Polymer Symposium 2022, Tallinn, Estonia 2022 <https://taltech.ee/en/BPS2022>

**Keskkonnasensorid juhtivatel polümeeridel = Environmental sensors based conductive polymers**

**Bereznev, Sergei; Sõritski, Vitali; Öpik, Andres** XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 17-18 [https://www.ester.ee/record=b1070511\\*est](https://www.ester.ee/record=b1070511*est)

**Kõrgmolekulaarsete ühendite keemia ja füüsika : õppevahend. I, Kõrgmolekulaarsed ühendid**

**Piiraja, Eduard** 1984 [https://www.ester.ee/record=b1282722\\*est](https://www.ester.ee/record=b1282722*est)

**Laboratoorsed tööd orgaanilises keemias. II, Polümeeride füüsika ja keemia**

1986 [https://www.ester.ee/record=b1208418\\*est](https://www.ester.ee/record=b1208418*est)

**A macromolecular imprinting approach to design synthetic receptors for label-free biosensing applications =**

**Sünteesilised retseptorid molekulaarselt jäljendatud polümeeridest biomakromolekulide märgisevabaks määramiseks**

**Tretjakov, Aleksei** 2016 [http://www.ester.ee/record=b4560028\\*est](http://www.ester.ee/record=b4560028*est)

**Makromolekulaarsete ühendite identifitseerimine**

**Piiraja, Eduard** 1973 [https://www.ester.ee/record=b1319223\\*est](https://www.ester.ee/record=b1319223*est)

**Manufacture of particleboards using melamine-urea-formaldehyde resins**

**Siimer, Kadri; Pehk, Tõnis; Kaljuvee, Tiit; Lasn, Ilmar; Peterson, Aleksander** Polimeru keemia, füüsika ja tehnoloogia = Polymer chemistry, physics and technology : konferentsijoo ettekanne medžiaga 2000 / p. 47-50 : ill

**Material recycling and improvement issues in additive manufacturing**

**Mägi, Piret; Krumme, Andres** Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 86

**Material recycling and improvement issues in additive manufacturing**

**Mägi, Piret; Krumme, Andres; Pohlak, Meelis** Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 63-68 : ill

**Materials and technologies for photovoltaic applications from Estonia**

**Melikov, Enn; Altosaar, Mare; Bereznev, Sergei; Kauk, Marit; Kois, Julia; Krustok, Jüri; Krunk, Malle; Varema, Tiit** Proceedings of SPIE 2005 / Optical materials and applications, p. 59460X-1 - 59460X-9 : ill [https://www.researchgate.net/profile/Mare-Altosaar/publication/252219854\\_Materials\\_and\\_technologies\\_for\\_photovoltaic\\_applications\\_from\\_Estonia/links/54e5e6520cf2cd2e028b39ca/Materials-and-technologies-for-photovoltaic-applications-from-Estonia.pdf](https://www.researchgate.net/profile/Mare-Altosaar/publication/252219854_Materials_and_technologies_for_photovoltaic_applications_from_Estonia/links/54e5e6520cf2cd2e028b39ca/Materials-and-technologies-for-photovoltaic-applications-from-Estonia.pdf)

### **Mechanical recycling of compounded polymeric waste and evaluation of briquetting parameters**

**Kers, Jaan;** Križan, P.; Letko, M.; Šooš, Lubomir; **Kask, Ülo; Gregor, Andre** Proceedings of the 7th International Conference of DAAAM Baltic Industrial Engineering : 22-24th April 2010, Tallinn, Estonia. [II] 2010 / p. 468-473 : ill

### **Mesoporous molecularly imprinted polymer for label-free detection of a small analyte**

**Ayankojo, Akinrinade George; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres** MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [214]

### **A mesoscale simulation of the morphology of the PEDT/PSS complex in the water dispersion and thin film : the use of the MesoDyn simulation code**

**Kaevand, Toomas; Öpik, Andres; Lille, Ülo** Advances in computer and information Science and Engineering. XVIII 2008 / p. 540-546 : ill [https://link.springer.com/chapter/10.1007/978-1-4020-8741-7\\_96](https://link.springer.com/chapter/10.1007/978-1-4020-8741-7_96)

### **Methodology and equipment for optical studies of fast crystallizing polymers = Metoodika ja seade kiirelt kristalluvate polümeeride optilisteks uuringuteks**

**Märtson, Triin** 2010 [https://www.ester.ee/record=b2560827\\*est](https://www.ester.ee/record=b2560827*est)

### **Mida teha polümeersete jäätmetega?**

**Piiroja, Eduard;** Viisimaa, Matti Maakodu 1995 / 5, lk. 6-7: ill

### **Milline pann osta? Kas odav pann teeb töö ära sama hästi kui kallis?**

Arndt-Kalju, Margit; Kirikal, Siiri; Skuin, Mari; Tarkmeel, Krõõt delfi.ee 2023 [Milline pann osta? Kas odav pann teeb töö ära sama hästi kui kallis?](#)

### **MIP-based electrochemical sensor for direct detection of hepatitis C virus via E2 envelope protein**

**Antipchik, Mariia; Reut, Jekaterina; Ayankojo, Akinrinade George; Öpik, Andres; Sõritski, Vitali** Talanta 2022 / art. 123737 <https://doi.org/10.1016/j.talanta.2022.123737> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Model and hybrid polystyrenes containing trispentafluorophenylgermanium end groups**

Zakharova, Olga; Simonova, Maria; **Tarasova, Elvira;** Filippov, Alexander; Semchikov, Yuri International journal of polymer analysis and characterization 2009 / 5, p. 454-467 <https://www.tandfonline.com/doi/full/10.1080/10236660903031330>

### **Modeling and experimental analysis of the mass loading effect on micro-ionic polymer actuators using step response identification**

Dadras, Iman; Ghenna, Sofiane; Grondel, Sébastien; Cattan, Éric; **Raik, Jaan;** Aabloo, Alvo; Banerji, Saoni Journal of Microelectromechanical Systems 2021 / p. 243–252 : ill <https://doi.org/10.1109/JMEMS.2021.3060897> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modification of conductive properties and processability of polyparaphenylene, polypyrrole and polyaniline**

**Golovtsov, Igor** 2005 [https://www.ester.ee/record=b2097077\\*est](https://www.ester.ee/record=b2097077*est)

### **Molecular scale organized polyconjugated polymer-heteropolyacid composites**

Kulak, Anatoly; Kokorin, Alexander; Kulak, Tamara; **Meissner, Dieter** Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 12-17 : ill

### **Molecularly imprinted co-polymer for class-selective electrochemical detection of macrolide antibiotics in aqueous media**

**Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Rappich, Jörg; Furchner, Andreas; Hinrichs, Karsten; Sõritski, Vitali** Sensors and actuators B : chemical 2023 / art. 132768, 9 p. : ill <https://doi.org/10.1016/j.snb.2022.132768> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Molecularly imprinted macroporous polymer monolithic layers for L-phenylalanine recognition in complex biological fluids**

**Antipchik, Mariia;** Dzhuzha, Apollinariia; Siroto, Vasili; Tennikova, Tatiana; Korzhikova-Vlakh, Evgenia Journal of applied polymer science 2021 / art. e50070 <https://doi.org/10.1002/app.50070>

### **Molecularly imprinted polymer based electrochemical sensor for quantitative detection of SARS-CoV-2 spike protein**

**Ayankojo, Akinrinade George; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** Sensors and Actuators B: Chemical 2022 / Art. 131160 <https://doi.org/10.1016/j.snb.2021.131160> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Nguyen, Vu Bao Chau; Reut, Jekaterina; Sõritski, Vitali** Graduate school of functional materials and technologies scientific conference 2023 2023 / 1 p <http://fntdk.ut.ee/wp-content/uploads/2023/05/Nguyen.pdf>

### **Molecularly imprinted polymer-based SAW sensor for label-free detection of cerebral dopamine neurotrophic factor**

protein

**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Saarma, Mart; Sõritski, Vitali** Sensors and actuators B : chemical 2020 / art. 127708, 8 p. : ill <https://doi.org/10.1016/j.snb.2020.127708> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Molecularly Imprinted Polymer-modified Electrodes for Electrochemical Sensing of Emerging Aqueous Pollutants = Molekulaarselt jäljendatud polümeeriga modifitseeritud elektroodid esilekerkivate veesaasteainete elektrokeemiliseks tuvastamiseks**

**Nguyen, Vu Bao Chau** 2025 [https://www.ester.ee/record=b5758187\\*est](https://www.ester.ee/record=b5758187*est) <https://digikogu.taltech.ee/et/Item/0bef1a7a-5369-4053-9eab-af6bd9bcb11b> <https://doi.org/10.23658/taltech.64/2025>

**Molecularly imprinted polymers : a new approach to the preparation of functional materials**

**Öpik, Andres; Menaker, Anna; Reut, Jekaterina; Sõritski, Vitali** Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 3-11 : ill

**Molecularly imprinted polymers as advanced sensing materials for detection of neurotrophic factor proteins**

**Reut, Jekaterina; Kidakova, Anna; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali** 6th International Conference on Bio-Sensing Technology, 16-19 June 2019, Kuala Lumpur, Malaysia : program 2019 / P2.64 <https://www.elsevier.com/events/conferences/international-conference-on-bio-sensing-technology>

**Molecularly imprinted polymers as synthetic antibodies for neurotrophic factor proteins detection.**

**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** Baltic Polymer Symposium 2019 : Vilnius, Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 44 [Molecularly imprinted polymers ...](#)

**Molecularly imprinted polymers designed to detect antibiotic pollutants in water = Molekulaarselt jäljendatud polümeerid antibiootikumide määramiseks vesikeskkonnas**

**Ayankojo, Akinrinade George** 2018 <https://digi.lib.ttu.ee/i/?9952> [https://www.ester.ee/record=b5056541\\*est](https://www.ester.ee/record=b5056541*est)

**Molecularly imprinted polymers: towards development of chemosensors for medical diagnostics and environmental monitoring**

**Sõritski, Vitali** XV Loodusteaduskonna Teaduskonverents 2023 / 34 p. <https://taltech.ee/loodusteaduskond/teaduskonna-teaduskonverents> <https://doi.org/10.48726/1y9d6-46543>

**Molecularly imprinted poly(meta-phenylenediamine) based QCM sensor for detecting Amoxicillin**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali** Sensors and actuators B : chemical 2018 / p. 766-774 : ill <https://doi.org/10.1016/j.snb.2017.11.194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Molekulaarselt jäljendatud polümeerid: kaasaegsed biomimeetilised sensormaterjalid meditsiiniliseks diagnostikaks ja keskkonnaseireks**

**Sõritski, Vitali** Eesti Vabariigi preemiad 2023 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2023 / lk. 92-107 <https://doi.org/10.3176/evp.2023.05> [https://www.ester.ee/record=b1226072\\*est](https://www.ester.ee/record=b1226072*est)

**Monitoring the redox cycle of low-molecular peptides using a modified target plate in MALDI-MS**

**Borissova, Maria; Mahlapuu, Riina; Vaher, Merike** Talanta 2010 / p. 274-280 <https://pubmed.ncbi.nlm.nih.gov/21035675/>

**A new approach in preparation of molecularly imprinted polymer thin films for immunoglobulin G specific recognition**

**Boroznjak, Roman; Reut, Jekaterina; Sõritski, Vitali; Öpik, Andres** Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 77

**Novel combination of thermal analysis and SALS for investigation into crystallisation behaviour of polymers**

**Krumme, Andres** IXth Lahnwitzseminar on Calorimetry : Rostock-Warnemünde, 2006 2006 / [1] p

**Novel softwood lignin esters as advanced filler to PLA for 3D printing**

ACS omega 2024 / p. 44559-44567 <https://doi.org/10.1021/acsomega.4c06680>

**On model fitting methods for modeling polymer cure kinetics in microelectronics assembly applications**

Tilford, T.; Morris, J.E.; **Ferenets, Marju**; Rajaguru, P.R.; Pavuluri, S.K.; Desmulliez, M.P.Y.; Bailey, C. 3rd Electronic System-Integration Technology Conference (ESTC) : Berlin, 13-16 Sept. 2010 : proceedings 2010 / [6] p.: ill <https://www.semanticscholar.org/paper/On-model-fitting-methods-for-modeling-polymer-cure-Tilford-Morris/58dd0553e4c835d51e54f1a932d2e2ec27f2cfed1>

**Orgaaniline keemia ja kõrgmolekulaarsed ühendid : metoodiline juhend eriala 0902 "Puidutöötlemise tehnoloogia" kaugõppeteaduskonna üliõpilastele**

1991 [https://www.ester.ee/record=b1188017\\*est](https://www.ester.ee/record=b1188017*est)

**Orgaaniliste ja kõrgmolekulaarsete ühendite keemia alused : [õppevahend mittekeemia erialadel]**

**Help, Kalju; Siirde, Aino; Piiraja, Eduard** 1984 [https://www.ester.ee/record=b1191111\\*est](https://www.ester.ee/record=b1191111*est)

**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.org/eccm15/data/assets/417.pdf>

**Permittivity and breakdown voltage study of the epoxy-based nanocomposites**

Siddique, Abubakar; Arshad, Amna; Aslam, Waseem; Fatima, Maham; **Sardar, Muhammad Usman**; Noon, Muhammad Asim  
International review of electrical engineering 2023 / p. 373-382 <https://doi.org/10.15866/iree.v18i5.22518> [Journal metrics at Scopus](#)  
[Article at Scopus](#)

**Photo- and electropolymerization approaches for molecular imprinting of a neurotrophic factor protein**

**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 43 <http://fmt.dk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Photo- and Electropolymerization Approaches for Molecular Imprinting of a Neurotrophic Factor Protein = Foto- ja elektropolümeerisatsiooni meetodid neurotroofsete tegurite molekulaarseks jäljendamiseks**

**Kidakova, Anna** 2020 <https://digikogu.taltech.ee/et/Item/2ca7105c-05df-4af9-91cc-0e85d3840dc2>

**Photocatalytic oxidation of natural polymers in aqueous solutions = Looduslike polümeeride fotokatalüütiline oksüdatsioon vesilahustes**

**Portjanskaja, Elina** 2009 [https://www.ester.ee/record=b2491725\\*est](https://www.ester.ee/record=b2491725*est)

**Pihustuspürolüüsi meetodil sadestatud CuInS<sub>2</sub> kilede lähteainete termiline lagunemine**

**Mere, Arvo; Oja Acik, Ilona; Otto, Kairi; Krunks, Malle; Tõnsuaadu, Kaia** XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 46

**Plastide töötlemine, vormimisseadmed ja rakised : täienduskursus : 27. märts 2008 - 22. mai 2008 : põhineb projektil "Täiendkoolitus- ja e-õppe süsteemi väljaarendamine materjalitehnoloogidele ja kvaliteediinseneridele polümeer- ja komposiitmaterjalide valdkonnas Põhjamaade ja Euroopa tehnikaülikoolide kogemustest lähtudes"**

**Siirde, Kaarel** [2008] [https://www.ester.ee/record=b4652787\\*est](https://www.ester.ee/record=b4652787*est)

**Polüamidoamiin (PAMAM) dendrimeeride kõrgemate põlvkondade modifitseerimine sahhariididega**

Peterson, J.; Allikmaa, Veiko; Subbi, J.; **Lopp, Margus** XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 100

**Polümeer 78**

**Piiraja, Eduard** Kohalik Tööstus : informatsiooniseeria 3 1979 / lk. 18-21 [https://www.ester.ee/record=b1205666\\*est](https://www.ester.ee/record=b1205666*est)

**Polümeeride füüsika, mehaanika ja testimine : täienduskursus : 8. november 2007 - 10. jaanuar 2008**

**Krumme, Andres** [2007] [https://www.ester.ee/record=b4652770\\*est](https://www.ester.ee/record=b4652770*est)

**Polümeeride hõõrdumine reversiivkulgemisel : magistriväitekirj**

**Põdra, Priit** 1991 [https://www.ester.ee/record=b2632169\\*est](https://www.ester.ee/record=b2632169*est)

**Polümeeride katsetused Venemaal olid edukad : [Kirovis katsetati Kohtla-Järve Põlevkiviinstituudi ja TTÜ teadlaste välja töötatud toodet]**

**Bauer, Sofia** Põhjarannik 2000 / 6. dets., lk. 3

**Polümeeriteadus**

**Christjanson, Peep** 2008 [http://www.ester.ee/record=b2375145\\*est](http://www.ester.ee/record=b2375145*est)

**Polümeeriteaduse alused**

**Christjanson, Peep** 2003 [https://www.ester.ee/record=b1782510\\*est](https://www.ester.ee/record=b1782510*est)

**Polümeeriteaduse alused**

**Christjanson, Peep** 2001 [https://www.ester.ee/record=b1497598\\*est](https://www.ester.ee/record=b1497598*est)

**Polümeerimaterjalid**

**Christjanson, Peep** 2006 [http://www.ester.ee/record=b2208010\\*est](http://www.ester.ee/record=b2208010*est)

**Polümeerimaterjalid**

**Christjanson, Peep** 2007 [http://www.ester.ee/record=b2338912\\*est](http://www.ester.ee/record=b2338912*est)

**Polümeermaterjalid : täienduskursus : 1. veebruar 2008 - 11. aprill 2008**

**Christjanson, Peep** [2008] [https://www.ester.ee/record=b4652778\\*est](https://www.ester.ee/record=b4652778*est)

**Polümeersete jäätmete utiliseerimine**

**Piiroja, Eduard** XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 114-115

**Polümeersete jäätmete utiliseerimisest**

**Piiroja, Eduard** Kohalik Tööstus : informatsiooniseeria 3 1980 / lk. 15-17 [https://www.ester.ee/record=b1205666\\*est](https://www.ester.ee/record=b1205666*est)

**Poly(alkanoyl isosorbide methacrylate)s : from amorphous to semicrystalline and liquid crystalline biobased materials**

Laanesoo, Siim; Bonjour, Olivier; **Parve, Jaan**; Matt, Livia; **Parve, Omar**; Vares, Lauri; Jannasch, Patric EPF European Polymer Congress 26 June – 1 July 2022 : book of abstracts 2022 / p. 616 : ill [https://webadmin.epf2022.org/Amca-Epf2021/media/content/docs/Book\\_of\\_abstracts\\_EPF2022.pdf](https://webadmin.epf2022.org/Amca-Epf2021/media/content/docs/Book_of_abstracts_EPF2022.pdf)

**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](#)

**Polypyrrole coatings on conducting and insulating substrates**

**Reut, Jekaterina** 2004 [https://www.ester.ee/record=b1884787\\*est](https://www.ester.ee/record=b1884787*est)

**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>

**Preparation and investigation of molecularly imprinted st[r]uctures based on electrosynthesized polymers**

**Menaker, Anna**; **Sõritski, Vitali**; **Reut, Jekaterina**; **Õpik, Andres** Baltic Polymer Symposium 2007 : Druskininkai, Lithuania, September 19-21, 2007 : programme and book of abstracts 2007 / p. 30

**Proceedings of Baltic Polymer Symposium 2001 : Oct. 11-12 in Tallinn**

2001 [https://www.ester.ee/record=b1619423\\*est](https://www.ester.ee/record=b1619423*est)

**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](#)

**Puidu modifitseerimine sünteetiliste polümeeridega**

**Sillajõe, Aadu**; **Kaps, Tiit** Tehnika ja Tootmine 1981 / lk. 19-20 [https://www.ester.ee/record=b1073047\\*est](https://www.ester.ee/record=b1073047*est)

**Puidu, polümeeride ja tekstiili instituut**

**Christjanson, Peep**; **Lippmaa, Helle**; **Piiroja, Eduard** Teadustegevus / TTÜ 1993 / lk. 49-52

**Reoloogilised mõõtmised polükondensatsiooniprotsesside jälgimiseks**

**Suurpere, Aime**; **Christjanson, Peep**; **Siimer, Kadri** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 135-136

**A review on development of bio-inspired implants using 3D printing**

Raheem, Ansheed A.; Hameed, Pearlin; **Prashanth, Konda Gokuldoss**; Manivasagam, Geetha Biomimetics 2021 / art. 65 <https://doi.org/10.3390/biomimetics6040065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rheological behaviour of urea-formaldehyde adhesive resins [Electronic resource]**

**Christjanson, Peep**; **Suurpere, Aime**; **Siimer, Kadri** e-polymers 2004 / no. 037, [10] p. : ill

**Role of experimental damage mechanics for the circular economy implementation in cotton industries**

**Hussein, Abrar**; **Abbas, Muhammad** Mujtaba Journal of Modern Nanotechnology 2021 / 9 p <https://doi.org/10.53964/jmn.2021004>

**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](#)

**Ruthenium oxide electrode integrated with molecularly imprinted polymer for direct electrochemical sensing of a neurotrophic factor protein**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Söritski, Vitali** Sensors and Actuators B: Chemical 2025 / art. 137301 <https://doi.org/10.1016/j.snb.2025.137301>

**Selective artificial receptors based on micropatterned surface-imprinted polymers for label-free detection of proteins by SPR imaging**

Lautner, G.; **Kaev, Jevgeni; Reut, Jekaterina; Öpik, Andres**; Rappich, Jörg; **Söritski, Vitali**; Gyurcsanyi, Robert E. Advanced functional materials 2011 / p. 591-597 : ill  
[https://www.researchgate.net/publication/229918247\\_Selective\\_Artificial\\_Receptors\\_Based\\_on\\_Micropatterned\\_Surface-Imprinted\\_Polymers\\_for\\_Label-Free\\_Detection\\_of\\_Proteins\\_by\\_SPR\\_Imaging](https://www.researchgate.net/publication/229918247_Selective_Artificial_Receptors_Based_on_Micropatterned_Surface-Imprinted_Polymers_for_Label-Free_Detection_of_Proteins_by_SPR_Imaging)

**Sensing small- and macromolecular targets using molecularly imprinted polymers interfaced with saw technology**

**Söritski, Vitali; Tretjakov, Aleksei; Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres** MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [74]

**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](#)

**Shear processes and polymer mechanochemistry : general discussion**

Balaž, Matej; Laurencin, Danielle; Mack, James; Maini, Lucia; Mazzeo, Paolo P.; Mohamed, Sharmarke; Nagapudi, Karthik; **Niidu, Allan**; Vainauskas, Jogirdas; Zuffa, Caterina Faraday Discussions 2023 / p. 466-484 <https://doi.org/10.1039/D2FD90084J>

**Structural changes in melamine - formaldehyde resins during storage**

**Siimer, Kadri; Suurpere, Aime; Pehk, Tõnis** Polimeru chemija, fizika ir tehnologija = Polymer chemistry, physics and technology : konferencijos pranešimu medžiaga 2000 / p. 51-54 : ill

**Study of synthesis and redox switching of polypyrrole and poly(3,4-ethylenedioxythiophene) by using in-situ techniques**

**Söritski, Vitali** 2004 [https://www.ester.ee/record=b1994290\\*est](https://www.ester.ee/record=b1994290*est)

**Sulfamethizole-imprinted polymer on screen-printed electrodes: Towards the design of a portable environmental sensor**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali** Sensors and actuators B. Chemical 2020 / art. 128600, 9 p. : ill <https://doi.org/10.1016/j.snb.2020.128600> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Surface imprinted conducting polymer microrods for selective protein recognition**

**Söritski, Vitali; Menaker, Anna; Reut, Jekaterina**; Gyurcsanyi, Robert E.; **Öpik, Andres** ICSM-2008 : International Conference of Science and Technology of Synthetic Metals : Porto de Galinhas, Brazil, July 6-11, 2008 : book of abstracts 2008 / p. 43

**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 characterization of inherently conducting polymers by using scanning electrochemical microscopy and electrochemical quartz crystal microbalance**

**Söritski, Vitali**; Gyurcsanyi, Robert E.; **Öpik, Andres**; Toth, K. The International Conference on the Science and Technology of Synthetic Metals (ICSM) 2004 : University of Wollongong, Australia, 28 June to 2 July : book of abstracts 2004 / p. 212  
<https://www.sciencedirect.com/science/article/abs/pii/S0379677905002353>

**Synthesis and characterization of inherently conducting polymers by using scanning electrochemical microscopy and electrochemical quartz crystal microbalance**

**Söritski, Vitali**; Gyurcsanyi, Robert E.; **Öpik, Andres**; Toth, K. Synthetic metals 2005 / 1/3, p. 133-136  
<https://www.sciencedirect.com/science/article/pii/S0379677905002353>

**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](#)

### Synthesis and redox behavior of PEDOT/PSS and PPy/DBS structures

**Sõritski, Vitali; Idla, Katrin; Öpik, Andres** Synthetic metals 2004 / p. 235-239 : ill  
<https://www.sciencedirect.com/science/article/abs/pii/S0379677904001407>

### Synthesis and structural and conformational properties of hybrid polymers of styrene with perfluorinated compounds of germanium

Zakharova, Olga; **Tarasova, Elvira**; Simonova, Maria; Semchikov, Yuri; Filippov, Alexander Polymer science series A 2009 / 5, p. 512-517 <https://link.springer.com/article/10.1134/S0965545X09050046>

### Synthesis of thermoplastic cellulose esters in novel ionic liquid

**Savale, Nutan Bharat; Tarasova, Elvira; Krasnou, Illia; Kudrjašova, Marina**; Reile, Indrek; **Krumme, Andres** Baltic Polymer Symposium, BPS2023 : programme and abstracts 2023 / p. 14

### Synthesis techniques in molecular imprinting: From MIP monoliths to MIP films and nanoparticles

**Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali**; Sehit, Ekin; Md Sharifuzzaman; Altintas, Z. Molecularly imprinted polymers : Computational studies to advanced applications 2025 / p. 75-128 [https://doi.org/10.1007/978-3-031-67368-9\\_4](https://doi.org/10.1007/978-3-031-67368-9_4)

### Teadustöö kinnitas: põlevkivi pürolüüsil koos polümeerjäätmatega on head väljavaated, kuid on ka mõned agad

Põhjarannik 2022 / Lk. 11 <https://dea.digar.ee/article/pohjarannik/2022/11/12/14.1> <https://digikogu.taltech.ee/et/Item/ab6c2255-91b6-4ce5-b26e-95665266870e>

### Tehnikaülikooli laborisse saabus seade läbi akna

postimees.ee 2023 [TalTechi uus 1,5-tonnine seade tõsteti hoonesse läbi akna](#) [Tehnikaülikooli laborisse saabus seade läbi akna](#)

### Tehnoplastid : plastide üldiseloostus, plastide valik, plastide mehaanilised teimid, firmaplastid

1999 [https://www.ester.ee/record=b1222251\\*est](https://www.ester.ee/record=b1222251*est)

### The development of a polymer synthetic receptor for class-selective detection of macrolide antibiotics

**Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 42 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### The effect of fine erodent retained on the surface during erosion of metals, ceramics, plastic, rubber and hardmetal

**Antonov, Maksim; Pirso, Jüri; Goljandin, Dmitri; Vallikivi, Ahto; Hussainova, Irina** Wear 2016 / p. 53-68 : ill  
<https://doi.org/10.1016/j.wear.2016.02.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Thermal, mechanical, and acoustic properties of polydimethylsiloxane filled with hollow glass microspheres

Vlassov, Sergei; **Oras, Sven**; Timusk, Martin; Zadin, Veronika; Tiirats, Tauno; Sosnin, Ilya M.; Lõhmus, Rünno; Linarts, Artis; Kyritsakis, Andreas; Dorogin, Leonid M. Materials 2022 / art. 1652 : ill <https://doi.org/10.3390/ma15051652> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Thermochromatographical analysis of polymer thermal decomposition: interpretation and classification by principal component analysis and related methods

**Kudrjašova, Marina**; Elomaa, M.; **Kaljurand, Mihkel** Balaton Symposium'99 on High-Performance Separation Methods : September 1-3, 1999, Siófok, Hungary : book of abstracts 1999 / p. P-42

### Thermoreactive polymer composite with high particulate filler content = Suure pulbrilise täiteaine sisaldusega termoreaktiivne polümeerkomposiit

**Aruniit, Aare** 2014 [http://www.ester.ee/record=b3092370\\*est](http://www.ester.ee/record=b3092370*est)

### Three-dimensional finite element modelling of chemical environment in droplet-based microfluidic systems for drug therapy applications

Szomor, Zsombor; **Gyimah, Nafisat; Pardy, Tamas**; Fürjes, Peter Physics of fluids 2025 / art. 072045  
<https://doi.org/10.1063/5.0275809>

### Towards the development of a 3-D biochip for the detection of hepatitis C virus

**Antipchik, Mariia**; Polyakov, Dmitry; Sinitsyna, Ekaterina Sensors 2020 / art. 2719, 17 p <https://doi.org/10.3390/s20092719>

### Toxicity of nanoscale cationic polymers in vitro and in vivo

**Kahru, Anne; Drews, Monika; Põllumaa, Lee; Kasemets, Kaja**; Veidebaum, Toomas; **Kogerman, Priit** ALTEX 2005 / p. 302

### Tribological and circular economy aspects of polypropylene/cotton fibre hybrid composite

**Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Kumar, Rahul**, 1993-; **Kamboj, Nikhil Kumar; Rahmani Ahranjani, Ramin; Viljus, Mart**; Ahmad, Tahir; **Krumme, Andres**; **Krasnou, Illia** Proceedings of the Estonian Academy of Sciences 2022 / p. 186-193 : ill <https://doi.org/10.3176/proc.2022.2.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Tungsten carbide material tribology and circular economy relationship in polymer and composites industries**

**Hussain, Abrar; Podgurski, Vitali; Antonov, Maksim;** Abbas, Muhammad Mujtaba; Rizwan, Muhammad Proceedings of the Institution of Mechanical Engineers, Part L : Journal of Materials : Design and Applications 2022 / p. 2066-2073

<https://doi.org/10.1177%2F14644207221096929> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Using nano-additives to increase the oxygen barrier of polymers [Online resource]**

Paara, Tõnis; Lange, Sven; **Krumme, Andres** 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://fmdtk.ut.ee/teesid-2018/>

## **The utilization of platinum catalysts deposited on carbon support synthesized from coffee grounds in a polymer electrolyte membrane fuel cell**

Simson, Sander; Nerut, Jaak; Härmas, Meelis; Valk, Peeter; Teppor, Patrick; Palm, Rasmus; Koppel, Miriam; Aruväli, Jaan; Korjus, Ove; **Volobujeva, Olga;** Mansson, Martin; Lust, Enn ECS Meeting Abstracts 2023 / art. 2295 <https://doi.org/10.1149/MA2023-01382295mtgabs>

## **Utilization of polymeric wastes**

**Piiraja, Eduard** Proceedings of the Estonian Academy of Sciences. Chemistry 1995 / 2/3, p. 218-221

## **Utilization of polyolefinic waste**

**Piiraja, Eduard** Kemia-kemi 1990 / 10B, p. 995

## **Uurimusi polümeermaterjalide alalt**

1994 [https://www.ester.ee/record=b1067575\\*est](https://www.ester.ee/record=b1067575*est)

## **UV-analysis of macrocyclic and linear oligomers of hemicucurbiturils [Online resource]**

**Fomitšenko, Maria; Kaabel, Sandra; Kreekman, Karin; Trunin, Madli; Järving, Ivar; Aav, Riina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fmdtk.ut.ee/teesid/>

## **Wear resistance influencers of particle reinforced polymer composite**

**Aruniit, Aare; Kers, Jaan; Krumme, Andres; Antonov, Maksim; Allikas, Georg; Herranen, Henrik; Pabut, Ott** Proceedings of 19th International Conference on Composite Materials (ICCM19) 2013

## **Virumaa kolledžis kaitstud esimene doktoritöö on seotud põlevkiviga [Võrguväljaanne]**

postimees.ee 2022 [Virumaa kolledžis kaitstud esimene doktoritöö on seotud põlevkiviga](#) <https://digikogu.taltech.ee/et/Item/ab6c2255-91b6-4ce5-b26e-95665266870e>

## **Vävid polümeersete materjalide trükkimiseks**

**Piiraja, Eduard** Kohalik Tööstus : informatsiooniseeria 3 1978 / lk. 8-11 [https://www.ester.ee/record=b1205666\\*est](https://www.ester.ee/record=b1205666*est)

## **Вибростенд для испытания пластмассовых резьбовых соединений**

**Meng, Valentin; Strizak, Viktor;** Ševtšenko, J.P. Сборник статей по машиностроению. 14 1976 / с. 55-60 : илл [https://www.ester.ee/record=b2190772\\*est](https://www.ester.ee/record=b2190772*est) <https://digikogu.taltech.ee/et/Item/19a7abb0-e96a-49e5-bc18-3d1b1f0b3218>

## **Высокомолекулярные соединения : учебное пособие**

**Piiraja, Eduard** 1988 [https://www.ester.ee/record=b1256252\\*est](https://www.ester.ee/record=b1256252*est)

## **Исследование влияния полимерной добавки на трещиностойкость преднапряженных балок из керамзитобетона : автореферат ... кандидата технических наук (05.23.01)**

Valjunas, Balis 1978 [http://www.ester.ee/record=b1275265\\*est](http://www.ester.ee/record=b1275265*est)

## **Исследование влияния полимерной добавки на трещиностойкость преднапряженных балок из керамзитобетона : диссертация ... кандидата технических наук : 05.23.01 - строительные конструкции**

Valjunas, Balis 1977 [http://www.ester.ee/record=b2356516\\*est](http://www.ester.ee/record=b2356516*est)

## **Исследование синтеза пластификаторов на базе фенолов сланцевой подсмольной воды**

**Vägi, M.; Aarna, Agu** Сборник научных трудов студентов. 4 1965 / с. 117-123 : илл [https://www.ester.ee/record=b2181987\\*est](https://www.ester.ee/record=b2181987*est) <https://digikogu.taltech.ee/et/Item/15040af2-b264-4339-b7b1-c0140de7d1c1>

## **Картина распределения полимера в древесине, модифицированной смолами ДФК**

**Tanner, Jüri; Nikitšenko, Ludmilla** Республиканская научная конференция "Химия и применение фенолальдегидных смол" : тезисы докладов 1982 / с. 77-78 [https://www.ester.ee/record=b1265870\\*est](https://www.ester.ee/record=b1265870*est)

## **Лучшим университет для начала карьеры!**

Северное побережье (Пыхьяранник) 2023 / с. 11 [Лучшим университет для начала карьеры!](#)

**Научный труд подтвердил: пиролиз сланца с отходами из полимеров имеет хорошие перспективы, но есть некоторые "но"**

Северное побережье (Пыхьяранник) 2022 / с. 11 [https://www.ester.ee/record=b1072920\\*est](https://www.ester.ee/record=b1072920*est) <https://digikogu.taltech.ee/et/Item/ab6c2255-91b6-4ce5-b26e-95665266870e>

**Научный труд подтвердил: пиролиз сланца с отходами из полимеров имеет хорошие перспективы, но есть некоторые "но" [Online resource]**

Северное побережье (Пыхьяранник) 2022 / С. 11 [Научный труд подтвердил: пиролиз сланца с отходами из полимеров имеет хорошие перспективы, но есть некоторые "но"](#)

**Некоторые вопросы методики определения активности поверхности**

Piiraja, Eduard; Ebber, Arkadi; Kalvik, Riina; Teder, Jüri Обработка поверхности полиолефинов и декорирование поверхности полиолефинов : материалы республиканской научно-технической конференции. Часть 2 1973 / с. 77-86 : илл [https://www.ester.ee/record=b1337100\\*est](https://www.ester.ee/record=b1337100*est)

**О влиянии остаточных напряжений на прочностные свойства дивинилацетиленовых полимерных покрытий**

Süld, Tiia-Maaja; Kiisler, Karl Синтез и применение поликонденсационных клеев : сборник статей. 5 1982 / с. 87-93 : ил [https://www.ester.ee/record=b2191036\\*est](https://www.ester.ee/record=b2191036*est) <https://digikogu.taltech.ee/et/Item/948b14fd-94ea-4872-8724-96cfc1c27afe>

**О синтезе поликарбонатов резорцина (II сообщение)**

Järv, Endel; Raudsepp, Hugo Сборник статей по химии и химической технологии. 11 1964 / с. 71-77 : илл [https://www.ester.ee/record=b2181984\\*est](https://www.ester.ee/record=b2181984*est) <https://digikogu.taltech.ee/et/Item/958b7e78-6cf4-425c-b75d-b028262eada8>

**О стабильности и структурировании олигомеров дивинилацетилена**

Süld, Tiia; Kiisler, Karl; Iskra, J.V. Синтез и применение поликонденсационных клеев. 2 1978 / с. 93-99 : илл [https://www.ester.ee/record=b2191006\\*est](https://www.ester.ee/record=b2191006*est) <https://digikogu.taltech.ee/et/Item/b615a4dd-bb4c-4a80-888a-b13d1a4c52d3>

**О структуре полимеров дивинилацетилена**

Süld, Tiia; Kiisler, Karl Синтез и применение поликонденсационных клеев. [1] 1977 / с. 73-79 : илл [https://www.ester.ee/record=b1418128\\*est](https://www.ester.ee/record=b1418128*est) <https://digikogu.taltech.ee/et/Item/708124e8-a979-4c67-92ae-ee529ff008a7>

**О термической устойчивости дивинилацетиленовых полимеров**

Süld, Tiia-Maaja; Urbas, E. Синтез и применение поликонденсационных клеев. 4 1981 / с. 91-100 : илл [https://www.ester.ee/record=b2191035\\*est](https://www.ester.ee/record=b2191035*est) <https://digikogu.taltech.ee/et/Item/b5691e32-e425-4279-b0c6-86c2af1f88a1>

**Об экономике производства полимерных строительных материалов в Эстонской ССР**

Soo, E. XX научная конференция, посвященная 25-летию Эстонской ССР 18-22 мая 1965 г. : тезисы и резюме 1965 / с. 15-16 [https://www.ester.ee/record=b1359832\\*est](https://www.ester.ee/record=b1359832*est)

**Обработка поверхности полиолефинов и декорирование поверхности полиолефинов : материалы республиканской научно-технической конференции. Часть 2**

1973 [https://www.ester.ee/record=b1337100\\*est](https://www.ester.ee/record=b1337100*est)

**Окисление и окрашивание углеводородных полимеров**

1979 [https://www.ester.ee/record=b1271134\\*est](https://www.ester.ee/record=b1271134*est) <https://digikogu.taltech.ee/et/Item/ffb1b5d-e7f0-4503-aaa6-9cb582414a67>

**Оптимизация производства полимерных материалов для Прибалтийского экономического района : специальность № 08.594 - экономика, организация и планирование народного хозяйства (промышленность) : диссертация на соискание ученой степени кандидата экономических наук**

Tenno, Koidu 1969 [https://www.ester.ee/record=b4455345\\*est](https://www.ester.ee/record=b4455345*est)

**Полимерные материалы в народном хозяйстве**

Nikitina, Nonna 1990 [https://www.ester.ee/record=b1231589\\*est](https://www.ester.ee/record=b1231589*est)

**Полимерные упаковочные материалы**

Piiraja, Eduard; Tiikma, Laine; Kaal, T. Обработка поверхности полиолефинов и декорирование поверхности полиолефинов : материалы республиканской научно-технической конференции. Часть 2 1973 / с. 103-105 [https://www.ester.ee/record=b1337100\\*est](https://www.ester.ee/record=b1337100*est)

**Получение ацетофенона окислением этилбензола**

Velitskaja, Olga Технология органических веществ. 5 1973 / с. 75-80 : илл [https://www.ester.ee/record=b1327787\\*est](https://www.ester.ee/record=b1327787*est) <https://digikogu.taltech.ee/et/Item/4d607428-4077-45b3-a5b2-28394fbb4fa9>

**Получение связанной в полимер инвертазы**

Treimann, R.; Köstner, Ado Материалы докладов XV Студенческой научно-технической конференции вузов республик Прибалтики, Белорусской ССР и Калининградской области (14-19.IV.1969) : [1]-. [1] : Биология. Химия. Легкая и пищевая промышленность 1969 / с. 64

#### **Разделение смесей органических жидкостей путем диффузии через полимерные пленки**

**Mihkelson, Vello** Технология органических веществ. 1 1969 / с. 41-48 : илл [https://www.ester.ee/record=b1337236\\*est](https://www.ester.ee/record=b1337236*est)  
<https://digikogu.taltech.ee/et/Item/d6e3c08c-1c99-48a8-ae34-e91a3f1c8d0d>

#### **Самоприклеивающиеся материалы. Сообщение VII, О модифицированном термоотверждаемом невысыхающем клее типа KBH и его машинном нанесении на основы**

**Vabaoja, Jüri; Vössotski, Svjatoslav** Синтез и применение поликонденсационных клеев : сборник статей. 5 1982 / с. 95-103 : ил [https://www.ester.ee/record=b2191036\\*est](https://www.ester.ee/record=b2191036*est) <https://digikogu.taltech.ee/et/Item/948b14fd-94ea-4872-8724-96cfc1c27afe>

#### **Свободный формальдегид в древесно-полимерных материалах. Сообщение 7, Технологические аспекты обработки древесно-композиционных материалов бикарбонатом аммония**

**Vares, Toomas; Sillajõe, Aadu; Kaps, Tiit** Tallinna Tehnikaülikooli Toimetised 1990 / lk. 68-73

#### **Синтетическая глазурь для окрашивания полимерных материалов**

**Piiraja, Eduard; Granat, N.A.; Tiikma, Laine** Пластические массы = Journal of the plastic compounds = Zeitschrift für plastische Massen 1979 / с. 39 [https://www.ester.ee/record=b1953289\\*est](https://www.ester.ee/record=b1953289*est)

#### **Синтетическая глазурь для полимерных материалов**

**Tiikma, Laine; Granat, S.A.; Granat, N.A.** Окисление и окрашивание углеводородных полимеров 1979 / с. 79-82  
[https://www.ester.ee/record=b1271134\\*est](https://www.ester.ee/record=b1271134*est) <https://digikogu.taltech.ee/et/Item/ffbf1b5d-e7f0-4503-aaa6-9cb582414a67>

#### **Сланцевые алкилрезорцины - ингредиенты химикатов для резиновых смесей и гетероцепных полимеров**

**Grigoryeva, L.; Žirjakov, Jüri; Kekiševa, Ljudmilla; Soone, Jüri** Oil shale 2000 / 3, p. 287-298  
[https://artiklid.elnet.ee/record=b1005012\\*est](https://artiklid.elnet.ee/record=b1005012*est)

#### **Сланцевые наполнители композиций на основе полимерных материалов**

**Fadejeva, Rimma; Joonas, Richard; Klementjeva, G.** Всесоюзная конференция по композиционным полимерным материалам и их применению в народном хозяйстве, (1-3 октября): тезисы докладов. Ч. 1 1980 / с. 52-53

#### **Трение миниатюрных полимерных направляющих при динамических режимах**

**Põdra, Priit** Tallinna Tehnikaülikooli Toimetised 1991 / lk. 74-82: ill

#### **Утилизация полимерных выбросов**

**Piiraja, Eduard; Piir, E.** Проблемы промышленной экологии 1988 / с. 34-37

#### **Характеристика модифицированных полимерами неорганических носителей**

**Kipper, Heino; Jegorov, H.R.; Kivisilla, Külliki** Получение и применение иммобилизованных ферментов 1979 / с. 33-39 : илл  
[https://www.ester.ee/record=b1276115\\*est](https://www.ester.ee/record=b1276115*est) <https://digikogu.taltech.ee/et/Item/bd1658e1-1c45-4ddc-a5e6-864cf7e46106>

#### **Эффективная теплопроводность наполненных полимеров на основе эпоксидной смолы**

**Viisimaa, Matti; Käär, Harri** Проблемы работы котельных установок тепловых электростанций 1984 / с. 79-85