

Adaption of a method for involving environmental aspects in spatial planning of river basin management - a case study of the Narva River basin

Piirimäe, Kristjan; Pachel, Karin; Reihan, Alvina Estonian journal of ecology 2010 / p. 302-320 : ill

Anaerobic co-digestion of sewage sludge with fish farming waste

Kuusik, Argo; Pachel, Karin; Kuusik, Aare; Loigu, Enn The 9th International Conference "Environmental Engineering" : 22-23 May 2014, Vilnius, Lithuania : selected papers 2014 / [8] p. : ill

Assessment of landfill wastewater pollutants and efficiency of different treatment methods

Kuusik, Aare; Pachel, Karin; Kuusik, Argo; Loigu, Enn Proceedings of the Estonian Academy of Sciences 2016 / p. 452-471 : ill
<https://doi.org/10.3176/proc.2016.4.10> https://artiklid.elnet.ee/record=b2808652*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Combined effect of heavy metals on the activated sludge process

Lember, Erki; Retšnoi, Vitali; Pachel, Karin; Loigu, Enn Proceedings of the Estonian Academy of Sciences 2018 / p. 305-314 : ill
http://www.kirj.ee/public/proceedings_pdf/2018/issue_4/proc-2018-4-305-314.pdf <https://doi.org/10.3176/proc.2018.4.02> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Compliance of wastewater treatment plants in Järva Country with the EU urban wastewater treatment directive and Estonian national requirements

Niine, Raili; Loigu, Enn; Pachel, Karin European scientific journal 2013 / p. 365-375 : ill

Determining biogas yield from industrial biodegradable waste = Biolagunevatest tootmisjääkidest biogaasi saagise määramine

Kuusik, Argo 2017 <https://digi.lib.ttu.ee/i/?7712> https://www.ester.ee/record=b4680398*est

Distribution of different pollution loads from wastewater treatment plants and their impact on water bodies in Estonia

Niine, Raili; Loigu, Enn; Pachel, Karin International journal of energy and environment 2013 / p. 86-95 : ill

Eesti otsib pääseteed tuleviku veekriiside vältimiseks

rohe.geenius.ee 2025 [Eesti otsib pääseteed tuleviku veekriiside vältimiseks](#)

Eesti tingimustesse sobivate biogaasi metaaniks puhastamise tehnoloogiate rakendatavus ning keskkonna ja majanduslikud mõjud : lõpparuanne [Võrguväljaanne]

2014

Enn Loigu (24. I 1946 - 9. VIII 2022) : in memoriam

lital, Arvo; Pachel, Karin postimees.ee 2022 [Enn Loigu \(24. I 1946 - 9. VIII 2022\) : in memoriam](#)

Estimating microplastics related to laundry wash and personal care products released to wastewater in major Estonian cities: a comparison of calculated and measured microplastics

Ayankunle, Ayankoya Yemi; Buhhalko, Natalja; Pachel, Karin; Lember, Erki; Kõrgmaa, Vallo; Mishra, Arun; Lind, Kati Journal of environmental health science and engineering 2023 / p. 225-237 <https://doi.org/10.1007/s40201-023-00856-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimating water quality in river basins using linked models and databases

Ennet, Peeter; Pachel, Karin; Viies, Vladimir; Jürimägi, Lembit; Elken, Rain Estonian journal of ecology 2008 / 2, p. 83-99 : ill

Factors affecting performance of municipal wastewater treatment plants = Olmereoveepuhastite tõhusust mõjutavad tegurid

Kõrgmaa, Vallo 2020 <https://digikogu.taltech.ee/et/Item/0ca84c6c-dde8-44fb-b33c-9b15161eadcc> https://www.ester.ee/record=b5391360*est

Factors affecting SVI in small scale WWTPs

Kõrgmaa, Vallo; Kriipsalu, Mait; Tenno, Taavo; Lember, Erki; Kuusik, Argo; Lemmiksoo, Vallo; Pachel, Karin; lital, Arvo Water science & technology Water science and technology 2019 / p. 1766-1776 <https://doi.org/10.2166/wst.2019.177> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Generalised intergration of solid waste treatment practices to enhance methane productivity, generate suspension fertiliser and upgrade biogas

Kuusik, Argo; Kuusik, Aare; Pachel, Karin; Loigu, Enn; Sökk, Olev European scientific journal 2013 / p. 14-30 : ill

Harjumaa reovee fosforiga saaks väetada suurema osa maakonna põldudest [Võrguväljaanne]

Harrik, Airika novaator.err.ee 2020 / fot [Harjumaa reovee fosforiga saaks väetada suurema osa maakonna põldudest](#)

Harmful substances in wastewater, possible technical solutions for their removal = Ohtlikud ained reovees, võimalikud

tehnilised lahendused nende eemaldamiseks

Lember, Erki 2018 <https://digi.lib.ttu.ee/i/?11026> https://www.ester.ee/record=b5163600*est

Heavy metals removal in biological wastewater treatment dependent on process parameters

Lember, Erki; Pachel, Karin; Loigu, Enn Desalination and water treatment 2018 / p. 245-251 : ill

<https://doi.org/10.5004/dwt.2018.22460> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hoone kanalisatsioon = Draining system inside buildings

2013 https://www.ester.ee/record=b2940584*est

Hoone kanalisatsioon [Võrguteavik] = Draining system inside buildings

2019 https://www.ester.ee/record=b5261771*est

Hoone kanalisatsioon [Võrguteavik] = Draining system inside buildings / Eesti Standardimis- ja Akrediteerimiskeskus

2021 https://www.ester.ee/record=b5449156*est

Integrated economic and environmental impact assessment and optimisation of the municipal waste management model in rural area by case of Harju county municipalities in Estonia = Hajaasustusala jäätmehooldusmodeli majandusliku ja keskkonnamõju hindamine ning mudeli optimeerimine Eestis Harjumaa omavalitsuste näitel

Pöldnurk, Jana 2014 https://www.ester.ee/record=b4432988*est

Intensifying landfill wastewater and biodegradable waste treatment in Estonia = Prügilareovee ja biolagunevate jäätmete käitlemise tõhustamine Eestis

Kuusik, Aare 2016 <http://digi.lib.ttu.ee/i/?5954> https://www.ester.ee/record=b4580519*est

Keskkonnaülevaade 2009

Soolep, Anu; Pachel, Karin 2009 https://www.ester.ee/record=b2105223*est

Kohalike omavalitsuste ringmajanduslike tegevuste hetkeseisu analüüs ja teekaartide koostamine : analüüsi aruanne

Hurt, Ulrika; Piirimäe, Kristjan; Tuisk, Tarmo; Voronova, Viktoria; Dulova, Niina; Merisaar, Jaana; Kull, Margit; Niidu, Allan; Klõga, Marija; Pachel, Karin; Küttim, Merle 2023 <https://doi.org/10.11590/taltech.municipalities.circular.economy.roadmaps.report.2023>

Käitustegevuste haldus ja kontroll väliskanaliseerimisvõrgus. Osa 1, Puhastus [Võrguteavik] = Management and control of operational activities in drain and sewer systems outside buildings. Part 1, Cleaning

2016 http://www.ester.ee/record=b4608777*est

Landfill runoff water and landfill leachate discharge and treatment

Kuusik, Aare; Pachel, Karin; Kuusik, Argo; Loigu, Enn The 9th International Conference "Environmental Engineering" : 22-23 May 2014, Vilnius, Lithuania : selected papers 2014 / [6] p

Microplastics and plasticizers in Estonian wastewater treatment plants

Ayankunle, Ayankoya Yemi; Buhhalko, Natalja; Pachel, Karin; Lember, Erki; Heinlaan, Margit PRIMO22 : book of abstracts 2024 / p. 154 https://primo22.org/wp-content/uploads/2024/05/PRIMO22-Book_of_abstracts.pdf

Microplastics in influents and effluents of Estonian wastewater treatment plants

Ayankunle, Ayankoya Yemi; Buhhalko, Natalja; Lukjanova, Aljona; Pachel, Karin; Lember, Erki; Heinlaan, Margit Proceedings 2023 / art. 55 <https://doi.org/10.3390/proceedings2023092055>

Modelling diclofenac and ibuprofen residues in major Estonian seaside cities

Lember, Erki; Pachel, Karin; Loigu, Enn Journal of water security 2016 / p. 1-7 : ill <http://dx.doi.org/10.15544/jws.2016.002>

Modelling stormwater runoff, quality, and pollutant loads in a large urban catchment

Maharjan, Bharat; Pachel, Karin; Loigu, Enn Proceedings of the Estonian Academy of Sciences 2017 / p. 225-242 : ill

<https://doi.org/10.3176/proc.2017.3.02> http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2824298*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Monitoring of diffuse pollution from agriculture to support implementation of the WFD and the Nitrate Directive in Estonia

lital, Arvo; Pachel, Karin; Deelstra, Johannes Environmental science & policy 2008 / p. 185-193 https://www.researchgate.net/publication/223871588_Monitoring_of_diffuse_pollution_from_agriculture_to_support_implementation_of_the_WFD_and_the_Nitrate_Directive_in_Estonia

Nitrogen content and trends in agricultural catchments in Estonia

lital, Arvo; Klõga, Marija; Pihlak, Margus; Pachel, Karin; Zahharov, Andre; Loigu, Enn Agriculture, ecosystems and environment 2014 / p. 44-53 : ill <https://doi.org/10.1016/j.agee.2014.03.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel method for rapid assessment of the performance and complexity of small wastewater treatment plants

Kõrgmaa, Vallo; Tenno, Taavo; Pachel, Karin; lital, Arvo Proceedings of the Estonian Academy of Sciences 2019 / p. 32-42 : ill
<https://doi.org/10.3176/proc.2019.1.03> http://www.kirj.ee/public/proceedings_pdf/2019/issue_1/proc-2019-1-32-42.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On receiving water and self monitoring in Estonia and Viru-Peipsi project area with regard to drafting water resource management programs

Pachel, Karin Suomen Ympäristökeskuksen moniste. 328 2005 / p. 19-35

Peipsi

Haberman, Jutta; Timm, Tarmo; Raukas, Anto; Borissov, Vladimir; Miidel, Avo; Tavast, Elvi; Loigu, Enn; Leisk, Ülle; lital, Arvo; Pachel, Karin 2008 https://www.ester.ee/record=b2341036*est

Plastic contamination in Estonia: novel plasticizers and microplastics in Estonian wastewater treatment plants

Heinlaan, Margit; Ayankunle, Ayankoya Yemi; Vija, Heiki; Buhhalko, Natalja; Lember, Erki; Pachel, Karin The Gulf of Finland and Eastern Baltic Sea Science Days 2023 : "The future of our co-operation : A nucleus to transboundary nurture of the marine environment in transition", Estonian Academy of Sciences, Tallinn, 16–17 November 2023 : abstracts 2023 / p. 26-27
<https://www.akadeemia.ee/wp-content/uploads/2023/11/gof-science-days-2023-abstracts-for-web-2.pdf>

Possible agricultural use of digestate

Kuusik, Argo; Pachel, Karin; Kuusik, Aare; Loigu, Enn Proceedings of the Estonian Academy of Sciences 2017 / p. 64-74 : ill
<https://doi.org/10.3176/proc.2017.1.10> http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2816061*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recent trends in nutrient concentrations in Estonian rivers as a response to large-scale changes in land-use intensity and life-styles

lital, Arvo; Pachel, Karin; Loigu, Enn; Pihlak, Margus; Leis, Ülle Journal of environmental monitoring 2010 / 1, p. 178-188 : ill
<https://pubs.rsc.org/en/content/articlelanding/2010/em/b912923e>

Removal of hazardous substances in municipal wastewater treatment plants

Kõrgmaa, Vallo; Laht, Mailis; Rebane, Riin; Lember, Erki; Pachel, Karin; Kriipsalu, Mait; Tenno, Taavo; lital, Arvo Water Science & Technology Water science and technology 2020 / p. 2011–2022 <https://doi.org/10.2166/wst.2020.264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Removal of heavy metals and total organic carbon from wastewater using powdered activated carbon

Lember, Erki; Pachel, Karin; Loigu, Enn Proceedings of the Estonian Academy of Sciences 2019 / p. 100–110 : ill
<https://doi.org/10.3176/proc.2019.1.10> http://www.kirj.ee/public/proceedings_pdf/2019/issue_1/proc-2019-1-100-110.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reovee väikepuhasti projekteerimine (kuni 1999 IE) = Design of small wastewater treatment plant (up to 1999 PE)

2023 https://www.ester.ee/record=b5568342*est

Reovee väikepuhastid kuni 50 IE. Osa 1, Tehases valmistatud septikud [Võrguteavik] = Small wastewater treatment systems for up to 50 PT. Part 1, Prefabricated septic tanks

2017 http://www.ester.ee/record=b4720987*est

Reoveekäitlus [Võrguteavik] : sõnastik = Wastewater treatment : vocabulary

2015 http://www.ester.ee/record=b4494480*est

Reverse osmosis and nanofiltration of biologically treated leachate

Kuusik, Aare; Pachel, Karin; Kuusik, Argo; Loigu, Enn; Tang, Walter Zhonghong Environmental technology 2014 / p. 2416-2426 : ill
<https://doi.org/10.1080/09593330.2014.908241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Riverine plastic pollution in Asia : results from a bibliometric assessment

Leal Filho, Walter; Dedeoglu, Cagdas; Dinis, Maria Alzira Pimenta; Salvia, Amanda Lange; Barbir, Jelena; Voronova, Viktoria; Abubakar, Ismaila Rimi; lital, Arvo; Pachel, Karin Land 2022 / art. 1117 <https://doi.org/10.3390/land11071117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Scenarios for reduction of nutrient load from point sources in Estonia

Pachel, Karin; Klõga, Marija; lital, Arvo Hydrology research 2012 / p. 374-382 <https://iwaponline.com/hr/article/43/4/374/978/Scenarios-for-reduction-of-nutrient-load-from>

Selection of most promising substrates for biogas production

Kuusik, Argo; Kuusik, Aare; Loigu, Enn; Sokk, Olev; Pachel, Karin International journal of energy and environment 2013 / p. 115-124 : ill

Stormwater quantity and quality of large urban catchment in Tallinn = Sademevee äravool ja kvaliteet suure linna valgalal Tallinna näitel

Maharjan, Bharat 2016 <https://digi.lib.ttu.ee/i/?7131> https://www.ester.ee/record=b4640577*est

Strategies for sustainable and circular management of phosphorus in the Baltic Sea region : The holistic approach of the InPhos project

Smol, Marzena; Preisner, Michal; Bianchini, Augusto; **Voronova, Viktoria**; **Pachel, Karin** Sustainability 2020 / 21 p. : ill

<https://doi.org/10.3390/su12062567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards effective monitoring of urban stormwater for better design and management

Maharjan, Bharat; **Pachel, Karin**; **Loigu, Enn** Estonian journal of earth sciences 2016 / p. 176-199 : ill

<https://doi.org/10.3176/earth.2016.12> https://artiklid.elnet.ee/record=b2802422*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Trends in urban storm water quality in Tallinn and influences from stormflow and baseflow

Maharjan, Bharat; **Pachel, Karin**; **Loigu, Enn** Journal of water security 2016 / p. 1-11 : ill <http://dx.doi.org/10.15544/jws.2016.001>

Urban stormwater quality and quantity in the city of Tallinn

Maharjan, Bharat; **Pachel, Karin**; **Loigu, Enn** European scientific journal 2013 / p. 305-314 : ill

Uued inimesed ja positsioonid

Tammet, Tanel; Uska, Riina; Laanearu, Janek; Tabri, Kristjan; Vendelin, Marko; Margus, Madis; Kindsigo, Merit; Talpsepp, Tõnn; Tähemaa, Toivo; Laos, Katrin; Liiv, Innar; Rüütmann, Tiia; Sarapuu, Külli; Kikkas, Kaido; **Pachel, Karin** Mente et Manu 2022 / lk. 40-49 : fot https://www.ester.ee/record=b1242496*est

Wastewater impact on the quality of waterbodies in Estonia

Niine, Raili; **Loigu, Enn**; **Pachel, Karin** Advances in Environment, Computational Chemistry & Bioscience : [proceedings of the EED '12, COMPUCHEM '12, BIO '12, ICBB '12, ICAC '12] : Montreux, Switzerland, December 29-31, 2012 2012 / p. 175-180 : ill

Water resources, sustainable use and integrated management in Estonia = Veevarud, nende terviklik haldamine ja säästlik kasutamine Eestis

Pachel, Karin 2010 https://www.ester.ee/record=b2604915*est

Vee kvaliteet [Võrguteavik] : proovivõtt. Osa 10, Juhised reoveest ja heitveest proovide võtmiseks = Water quality : sampling. Part 10, Guidance on sampling of waste waters (ISO 5667-10:1992)

2015 http://www.ester.ee/record=b4456527*est

Vee kvaliteet [Võrguteavik] : proovivõtt. Osa 10, Juhised reoveest ja heitveest proovide võtmiseks = Water quality : sampling. Part 10, Guidance on sampling of waste waters (ISO 5667-10:2020, identical)

2021 https://www.ester.ee/record=b5467480*est

Veevärk. Osa 1, Veehaarded / [Võrguteavik] = Waterworks. Part 1, Water intakes

2015 http://www.ester.ee/record=b4453802*est

Virtual mapping of reference conditions of pollutant load in waterbodies : phosphorus in the Lake Peipsi basin

Piirimäe, Kristjan; **Loigu, Enn**; **Pachel, Karin**; Iital, Arvo Boreal environment research 2015 / p. 391-402 : ill

<http://www.borenv.net/BER/pdfs/ber20/ber20-391.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Võimalusi Läänemere toitainekoormuse vähendamiseks

Iital, Arvo; **Pachel, Karin** Keskkonnatehnika 2009 / 8, lk. 10-11 : ill https://artiklid.elnet.ee/record=b1509635*est
https://keskkonnatehnika.ee/wp-content/uploads/2017/09/KKT_2009_08.pdf

Väliskanaliseerimisvõrk = Sewer systems outside buildings

2013 https://www.ester.ee/record=b2940587*est

Väliskanaliseerimisvõrk [Võrguteavik] = Sewer system inside buildings

2021 https://www.ester.ee/record=b5449238*est

Нагрузка загрязнениями водосбора Псково-Чудского озера и качество воды в реках

Loigu, Enn; Reihan, Alvina; Leisk, Ülle; Iital, Arvo; **Pachel, Karin** Псково-Чудское озеро 2012 / с. 185-208 : ил