

Activation and reactivity of Estonian oil shale cyclone ash towards SO₂ binding

Kaljuvee, Tiit; Trass, Olev; Pihu, Tõnu; Konist, Alar; Kuusik, Rein, keemik Journal of thermal analysis and calorimetry 2015 / p. 19-28 : ill <https://doi.org/10.1007/s10973-014-4308-z> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Activation and reactivity of oil shale cyclone ash towards SO₂ binding

Kaljuvee, Tiit; Trass, Olev; Pihu, Tõnu; Konist, Alar; Kuusik, Rein, keemik ESTAC-11 : the 11th European Symposium on Thermal Analysis and Calorimetry : Dipoli Congress Center, Espoo, Finland, August 17-21, 2014 : abstracts 2014 / p. 14

Alar Konist: Eesti ei tohiks kergekäeliselt loobuda oma tootmisvõimsusest

Konist, Alar postimees.ee 2022 "Alar Konist: Eesti ei tohiks kergekäeliselt loobuda oma tootmisvõimsusest"

Alar Konist: Eesti heitenormid on Euroopaga võrreldes karmimad

err.ee 2024 Alar Konist: Eesti heitenormid on Euroopaga võrreldes karmimad

Alar Konist: kas põlevkivienergeetikal on tulevikku?

Konist, Alar err.ee 2023 Alar Konist: kas põlevkivienergeetikal on tulevikku?

Alar Konist: nutikad lahendused Eesti energiatuleviku kujundamiseks

Konist, Alar delfi.ee 2025 <https://arileht.delfi.ee/artikkel/120376166/alar-konist-nutikad-lahendused-eesti-energiatuleviku-kujundamiseks>

Alcoholysis of primary amides in the presence of CF₃SO₃H

Mastitski, Anton; Vellemäe, Eerold; Smorodina, Varvara; Konist, Alar; Järv, Jaak Organic preparations and procedures international 2023 / p. 458-468 : ill <https://doi.org/10.1080/00304948.2023.2184997> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysis of Kazakhstan oil shale deposits in accordance with resource estimation practices for consideration of potential shale oil reserves

Sabanov, Sergei; Konist, Alar; Korshunova, Ruslana Energies 2025 / art. 621 <https://doi.org/10.3390/en18030621>

Ash and flue gas from oil shale oxy-fuel circulating fluidized bed combustion

Loo, Lauri; Konist, Alar; Nešumajev, Dmitri; Pihu, Tõnu; Maaten, Birgit; Siirde, Andres Energies 2018 / art. 1218, 12 p. : ill <https://doi.org/10.3390/en11051218> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ash characterisation formed under different oxy-fuel circulating fluidized bed conditions

Baqain, Mais Hanna Suleiman; Yörük, Can Rüstü; Nešumajev, Dmitri; Järvik, Oliver; Konist, Alar Fuel 2023 / art. 127244 <https://doi.org/10.1016/j.fuel.2022.127244> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Auvere elektriiaam : 600 miljoni eurone äpardus

Sikk, Rein Maaleht 2023 / Lk. 8-9 <https://dea.digar.ee/article/maaleht/2023/01/19/7.2>

Calculation of the amount of Estonian oil shale products from combustion in regular and oxy-fuel mode in a CFB boiler

Konist, Alar; Loo, Lauri; Valtsev, Aleksandr; Maaten, Birgit; Siirde, Andres; Nešumajev, Dmitri; Pihu, Tõnu Oil shale 2014 / p. 211-224 : ill https://artiklid.elnet.ee/record=b2680497*est <https://doi.org/10.3176/oil.2014.3.02> Journal metrics at Scopus Article at Scopus Journal metric at WOS Article at WOS

Carbon dioxide emission factors for oxy-fuel CFBC and aqueous carbonation of the Ca-rich oil shale ash

Loo, Lauri; Maaten, Birgit; Konist, Alar; Siirde, Andres; Nešumajev, Dmitri; Pihu, Tõnu Energy procedia 2017 / p. 144-149 : ill <https://doi.org/10.1016/j.egypro.2017.09.034> Conference proceedings at Scopus Article at Scopus Article at WOS

Carbon dioxide sequestration in power plant Ca-rich ash waste deposits

Leben, Kristjan; Mõtlep, Riho; Konist, Alar; Pihu, Tõnu; Kirsimäe, Kalle Oil shale 2021 / p. 65-88 : ill <https://doi.org/10.3176/oil.2021.1.04> https://kirj.ee/wp-content/plugins/kirj/pub/OS-1-2021-65-88_20210222125803.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Catastrophic wastage of tubes in fluidized bed boilers

Suik, Heinrich; Pihu, Tõnu; Konist, Alar Oil shale 2011 / 1S, p.162-168 : ill https://artiklid.elnet.ee/record=b2286625*est

Characterization and enhancement of oil shale fly ash from CFB boiler

Pikkor, Heliis; Järvik, Oliver; Lees, Heidi; Konist, Alar; Siirde, Andres; Maaten, Birgit 6th International Conference on Smart and Sustainable Technologies, SpliTech 2021 2021 / p. 1-4 <https://doi.org/10.23919/SpliTech52315.2021.9566470>

Characterization of different wood species as potential feedstocks for gasification

Sulg, Mari; Konist, Alar; Järvik, Oliver Agronomy research 2021 / p. 276-299 <https://doi.org/10.15159/AR.21.005> Journal metrics at Scopus Article at Scopus

Characterization of oil shale kerogen semi-coke and its application to remove chemical pollutants from aqueous solutions

Lees, Heidi; Jõul, Piia; Pikkor, Heliis; Järvik, Oliver; Mets, Birgit; Konist, Alar Oil shale 2023 / p. 115-132 : ill

<https://doi.org/10.3176/oil.2023.2.02> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Jõul, Piia; Ho, Thi Thuy Tran; 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 the pyrolytic water from shale oil industry

Maaten, Birgit; Järvik, Oliver; Loo, Lauri; Konist, Alar; Siirde, Andres Oil shale 2018 / p. 365-374 : ill

http://kirj.ee/public/oilshale_pdf/2018/issue_4/OS-2018-4-365-374.pdf <https://doi.org/10.3176/oil.2018.4.06> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chemical and physical characterization of oil shale combustion emissions in Estonia

Aurela, Minna; Mylläri, Fanni; Konist, Alar; Saarikoski, Sanna; Olin, Miska; Simonen, Pauli; Bloss, Matthew; Nešumajev, Dmitri;

Salo, Laura; Maasikmets, Marek; Sipilä, Mikko; Maso, Mikka Dal; Keskinen, Jorma; Timonen, Hilikka; Rönkkö, Topi Atmospheric

Environment: X 2021 / art. 100139, 9 p. : ill <https://doi.org/10.1016/j.aeaoa.2021.100139> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ClimMIT - Climate change mitigation with CCS and CCU technologies

Uibu, Mai; Siirde, Andres; Järvik, Oliver; Triikkel, Andres; Yörüük, Can Rüstü; Nurk, Gunnar; Kirsimäe, Kalle; Hazak, Aaro;

Konist, Alar Proceedings of the 15th Greenhouse Gas Control Technologies Conference 15-18 March 2021 2021 / 9 p

<https://ssrn.com/abstract=3812288> <https://doi.org/10.2139/ssrn.3812288>

CO₂ püüdmine, ladustamine ja kasutamine

Konist, Alar Elektriala 2022 / lk. 11-13 : ill https://www.ester.ee/record=b1240496*est

Co-combustion of coal and oil shale blends in circulating fluidized bed boilers

Konist, Alar; Pikkor, Heliis; Nešumajev, Dmitri; Loo, Lauri; Järvik, Oliver; Siirde, Andres; Pihu, Tõnu Oil shale 2019 / p. 114–

127 : ill <https://doi.org/10.3176/oil.2019.2S.03> http://www.kirj.ee/public/oilshale_pdf/2019/issue_2S/OS-2019-2S-114-127.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Co-gasification of biomass and oil shale under CO₂ atmosphere : comparative analysis of fixed-bed reactor, gas chromatography and thermogravimetric analysis coupled with mass spectroscopy (TGA-MS)

Sinisaalu, Mari; Järvik, Oliver; Mets, Birgit; Konist, Alar Bioresource technology 2024 / art. 130086

<https://doi.org/10.1016/j.biortech.2023.130086> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A combined analysis of the drying and decomposition kinetics of wood pyrolysis using non-isothermal thermogravimetric methods

Ochieng, Richard; Ceron, Alejandro Lyons; Konist, Alar; Sarker, Shiplu Energy conversion and management : X 2023 / art.

100424, 12 p. : ill <https://doi.org/10.1016/j.ecmx.2023.100424> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Combustion as a possible solution to pyrolytic wastewater utilization

Konist, Alar; Järvik, Oliver; Pihu, Tõnu; Nešumajev, Dmitri Chemical engineering transactions 2018 / p. 859-864 : ill

<https://doi.org/10.3303/CET1870144> [Journal metrics at Scopus](#) [Article at Scopus](#)

Combustion behavior of solid waste fuels in the vertical tube reactor under different oxy-fuel environments

Mukhambet, Yerkebulan; Ybray, Sultan; Shah, Dhawal; Konist, Alar; Sarbassov, Yerbol Process Safety and Environmental Protection

2024 / p. 760-768 <https://doi.org/10.1016/j.psep.2024.10.062> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Combustion of fuel mixtures in oil shale fired CFBC and PC boilers

Pihu, Tõnu; Konist, Alar; Nešumajev, Dmitri; Loo, Lauri International IX Oil Shale Conference 2017 "Oil Shale Industry in Circular

Economy" : 15th-16th November 2017, [Jõhvi], Ida-Viru County, Estonia : summary 2017 / p. 24-25

http://www.ester.ee/record=b4751282*est

Combustion of fuel mixtures in oil shale fired CFBC and PC boilers

Pihu, Tõnu; Konist, Alar; Nešumajev, Dmitri; Loo, Lauri; Veinjärv, Rain International Symposium "Oil shale 100 years" : Estonia,

Sept. 20-23, 2016 : [abstracts] 2016 / p. 22

Comparison of ash from PF and CFB boilers and behavior of ash fields

Arro, Hendrik; Pihu, Tõnu; Prikk, Arvi; Rootamm, Rein; Konist, Alar Proceedings of the 20th International Conference on

Fluidized Bed Combustion. 2 2009 / p. 1054-1060

Comparison of the ecotoxic properties of oil shale industry by-products to those of coal ash

Lees, Heidi; Järvik, Oliver; Konist, Alar; Siirde, Andres; Maaten, Birgit Oil shale 2022 / p. 1-19 : tab

<https://doi.org/10.3176/oil.2022.1.01> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A comprehensive review of carbon capture science and technologies

Wu, Chunfei; Huang, Qi; Xu, Zhicheng; Tariq Sipra, Ayesha; Gao, Ningbo; Porto de Souza Vandenberghe, Luciana; Vieira, Sabrina; Soccol, Carlos Ricardo; Zhao, Ruikai; Deng, Shuai; **Konist, Alar; Baqain, Mais Hanna Suleiman** Carbon capture science & technology 2024 / art. 100178, 180 p. : ill <https://doi.org/10.1016/j.ccst.2023.100178> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Computational results of the ecotoxic analysis of fly and bottom ash from oil shale power plants and shale oil production facilities

Lees, Heidi; Järvik, Oliver; Konist, Alar; Siirde, Andres; Maaten, Birgit Chemical engineering transactions 2020 / p. 967-972

<https://doi.org/10.3303/CET2081162> [https://www.scopus.com/record/display.uri?eid=2-s2.0-](https://www.scopus.com/record/display.uri?eid=2-s2.0-85092033034&origin=inward&txId=0c1c7fc07fcc8f2767255413a47fc58b)

[85092033034&origin=inward&txId=0c1c7fc07fcc8f2767255413a47fc58b](https://doi.org/10.3303/CET2081162) [Journal metrics at Scopus](#) [Article at Scopus](#)

Co-pyrolysis and co-gasification of biomass and oil shale

Järvik, Oliver; Sulg, Mari; Cascante Cirici, Pau; Eldermann, Meelis; **Konist, Alar**; Gusca, Julija; Siirde, Andres Environmental and Climate Technologies 2020 / p. 624–637 : ill <https://doi.org/10.2478/ruect-2020-0038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Co-pyrolysis of biomass and oil shale = Biomassi ja põlevkivi koospürolüüs

Lyons Ceron, Alejandro 2024 <https://doi.org/10.23658/taltech.27/2024> https://www.ester.ee/record=b5685170*est

<https://digikogu.taltech.ee/et/Item/086c2b08-a10f-4af2-aa9a-1bd3aa07693c>

Co-pyrolysis of biomass woodchips with Ca-rich oil shale fuel in a continuous feed reactor

Lyons Ceron, Alejandro; Pihu, Tõnu; **Konist, Alar** Oil Shale 2024 / p. 208–235 : ill <https://doi.org/10.3176/oil.2024.3.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Co-pyrolysis of woody biomass and oil shale — a kinetics and modelling study

Lyons Ceron, Alejandro; Ochieng, Richard; Sarker, Shiplu; Järvik, Oliver; **Konist, Alar** Energies 2024 / art. 1055

<https://doi.org/10.3390/en17051055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Co-Pyrolysis of Woody Biomass and Oil Shale in a Batch Reactor in CO₂, CO₂-H₂O, and Ar Atmospheres

Lyons Ceron, Alejandro; **Konist, Alar** Energies 2023 / art. 3145 <https://doi.org/10.3390/en16073145> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Corrosion of air preheater tubes of oil shale CFB boiler. Part 1, Dew point of flue gas and low-temperature corrosion

Pihu, Tõnu; Arro, Hendrik; Prikk, Arvi; Rootamm, Rein; **Konist, Alar** Oil shale 2009 / 1, p. 5-12 : ill

https://artiklid.elnet.ee/record=b1141180*est

Current status of co-pyrolysis of oil shale and biomass

Lyons Ceron, Alejandro; **Konist, Alar**; Lees, Heidi; Järvik, Oliver Oil shale 2021 / p. 228-263 : tab

<https://doi.org/10.3176/oil.2021.3.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Decomposition kinetics of American, Chinese and Estonian oil shales kerogen

Maaten, Birgit; Loo, Lauri; **Konist, Alar**; Nešumajev, Dmitri; Pihu, Tõnu; Külaots, Indrek Oil shale 2016 / p. 167-183 : ill

<https://doi.org/10.3176/oil.2016.2.05> https://artiklid.elnet.ee/record=b2778470*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of the total sulphur content of oil shale by using different analytical methods

Maaten, Birgit; Pikkor, Heliis; **Konist, Alar**; Siirde, Andres Oil shale 2018 / p. 144-153 : ill <https://doi.org/10.3176/oil.2018.2.04>

<https://doi.org/10.3176/oil.2018.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dimethyl 6-(N,N-Dimethylamino)naphthalene-2,3-dicarboxylate, a key intermediate in the preparation of dimethylaminonaphthalimide-based fluorophores

Mastitski, Anton; Vellemae, Eerold; Kuleša, Maksim; **Konist, Alar**; Järv, Jaak Organic preparations and procedures international 2025 / 10 p <https://doi.org/10.1080/00304948.2025.2451417>

Dioxin concentrations and congener distribution in biomass ash from small to large scale biomass combustion plants

Ummik, Mari-Liis; Järvik, Oliver; **Konist, Alar** Environmental science and pollution research 2024 / p. 58946 - 58956

<https://doi.org/10.1007/s11356-024-35141-5> [Journal metrics at Scopus](#) [Article at Scopus](#)

Ecotoxicity assessment of ashes from calcium-rich fuel combustion: contrasting results and regulatory implications

Ummik, Mari-Liis; Järvik, Oliver; Reinik, Janek; **Konist, Alar** Environmental science and pollution research 2024 / p. 48523-48533

<https://doi.org/10.1007/s11356-024-34387-3> [Journal metrics at Scopus](#) [Article at Scopus](#)

Eesti Energia kohal ripub keskkonnakuriteo kahtlus

Karnau, Andrus Postimees 2024 / Lk. 10-11 [https://dea.digar.ee/article/postimees/2024/12/03/10.8 Eesti Energia kohal ripub keskkonnakuriteo kahtlus](https://dea.digar.ee/article/postimees/2024/12/03/10.8_Eesti_Energia_kohal_ripub_keskkonnakuriteo_kahtlus)

Eesti teadlaste uus lähenemine teeb päikesepaneelid efektiivsemaks ja odavamaks

Konist, Alar novaator.err.ee 2019 / fot [Eesti teadlaste uus lähenemine teeb päikesepaneelid efektiivsemaks ja odavamaks](#)

Effect of steam activation on oil shale semi-coke surface properties

Pikkor, Heliis; Konist, Alar; Maaten, Birgit; Järvik, Oliver; Lees, Heidi International Multidisciplinary Conference on Computer and Energy Science (SpliTech) 2021 / 5 p <https://doi.org/10.23919/SpliTech52315.2021.9566397>

Effect of woody biomass gasification process conditions on the composition of the producer gas

Lyons Cerón, Alejandro; Konist, Alar; Lees, Heidi; Järvik, Oliver Sustainability 2021 / art. 11763, 17 p. : ill <https://doi.org/10.3390/su132111763> [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](#)

Eksperdid kahtlevad uue Eesti-Läti elektriühenduse vajalikkuses

Voltri, Johannes err.ee 2025 <https://www.err.ee/1609631458/eksperdid-kahtlevad-uue-eesti-lati-elektriuhenduse-vajalikkuses>

Eksper Eesti Energia probleemidest: meie heitenormid on Euroopaga võrreldes karmimad

postimees.ee 2024 [Eksper Eesti Energia probleemidest: meie heitenormid on Euroopaga võrreldes karmimad](#)

Eksper: Eesti kiireim tee tuumaenergiani oleks jaam Leedus

Peegel, Mari err.ee 2023 [Eksper: Eesti kiireim tee tuumaenergiani oleks jaam Leedus](#)

Elektri varustuskindlusest

Konist, Alar; Aro, Rein Elektriala 2021 / lk. 6-9 : portr https://www.ester.ee/record=b1240496*est

Elektri varustuskindlusest

Konist, Alar Postimees 2021 / Lk. 15 <https://dea.digar.ee/article/postimees/2021/02/22/14.6>

Emission measurements with gravimetric impactors and electrical devices : An aerosol instrument comparison

Salo, Laura; Mylläri, Fanni; Maasikmets, Marek; Niemelä, Ville; Konist, Alar; Kupri, Hanna-Lii Aerosol science and technology 2019 / p. 526-539 : ill <https://doi.org/10.1080/02786826.2019.1578858> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Emission of fine particulates from oil shale fired large boilers

Parve, Teet; Loosaar, Jüri; Mahhov, Mart; Konist, Alar Oil shale 2011 / 1S, p. 152-161 : ill https://artiklid.elnet.ee/record=b2286564*est

Emissions from Estonian oil shale PF and CFB firing

Loosaar, Jüri; Parve, Teet; Konist, Alar International Oil Shale Symposium : Tallinn, Estonia, June 8-11, 2009 : future energy solutions : come and share your vision! 2009 / p. 62-63 http://www.ester.ee/record=b4775098*est

The emissions of NOx, SO2, CO and decomposition of carbonates during oxyfuel combustion of low heating value semicoke in CFB pilot facility

Nešumajev, Dmitri; Baqain, Mais Hanna Suleiman; Konist, Alar Fuel 2024 / art. 132563, 10 p. : ill <https://doi.org/10.1016/j.fuel.2024.132563> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energeetikaekspertid andsid komisjonis meretuuleparkidele kriitilise vaate

err.ee 2024 [Energeetikaekspertid andsid komisjonis meretuuleparkidele kriitilise vaate](#)

Energeetikaprofessor elektrikriisist: need, kes on sellised poliitikud valinud, saavad praegu vaid ennast süüdistada [Võrguväljaanne]

Konist, Alar forte.delfi.ee 2022 ["Energeetikaprofessor elektrikriisist: need, kes on sellised poliitikud valinud, saavad praegu vaid ennast süüdistada"](#)

Energeetikateadlane Alar Konist: LNG ei ole õige tee. Uued põlevkiviplokid on täiesti keskkonnasõbralikud [Võrguväljaanne]

Konist, Alar epl.delfi.ee 2022 [Energeetikateadlane Alar Konist: LNG ei ole õige tee. Uued põlevkiviplokid on täiesti keskkonnasõbralikud](#)

Energiateadlase hinnangul võiks uute taastuvelektrijaamade rajamisega oodata

Roomets, Katre err.ee 2023 [Energiateadlase hinnangul võiks uute taastuvelektrijaamade rajamisega oodata](#)

Energiatootmine Eestis ja lähiriikides

Konist, Alar Postimees 2020 / Lk. 6-7 : ill <https://dea.digar.ee/article/ak/2020/09/19/5.1>

Energy experts critical of government's offshore wind farms plan

news.err.ee 2024 [Energy experts critical of government's offshore wind farms plan](#)

Energy industry waste as a thermochemical energy storage resource

Maaten, Birgit; Konist, Alar; Siirde, Andres 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry & 14th Mediterranean Conference on Calorimetry and Thermal Analysis , 27-30 August 2019, Roma, Italy: CEEC-TAC5 & Medicta2019 : book of abstracts 2019 / p. 81 <http://www.ceec-tac.org/download.php?f=../download/BoA%20CEEC-TAC5%20Medicta2019.pdf>

Environmental aspects of oil shale power production = Põlevkivienergeetika keskkonnatehnilised aspektid

Konist, Alar 2013 https://www.ester.ee/record=b2968889*est

Environmental impact of Estonian oil shale CFB firing

Loosaar, Jüri; Parve, Teet; Konist, Alar Proceedings of the 20th International Conference on Fluidized Bed Combustion. 1 2009 / p. 422-428

Experimental analysis of combustion characteristics of Estonian oil shale in regular and oxy-fuel atmospheres = Eesti põlevkivi põlemiskarakteristikute eksperimentaalne analüüs tavalises ja oxy-fuel keskkonnas

Loo, Lauri 2018 <https://digi.lib.ttu.ee/i/?10575> https://www.ester.ee/record=b5151046*est

Experimental analysis of the combustion characteristics of Estonian oil shale in air and oxy-fuel atmospheres

Loo, Lauri; Maaten, Birgit; Siirde, Andres; Pihu, Tõnu; Konist, Alar Fuel processing technology 2015 / p. 317-324 : ill <https://doi.org/10.1016/j.fuproc.2014.12.051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental and modeling studies of intermediate pyrolysis of wood in a laboratory-scale continuous feed retort reactor

Ochieng, Richard; Ceron, Alejandro Lyons; Konist, Alar; Sarker, Shilpu Bioresource technology reports 2023 / art. 101650 <https://doi.org/10.1016/j.biteb.2023.101650> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Experimental investigation of the high-speed combustion of different oil shales

Maaten, Birgit; Konist, Alar; Siirde, Andres 12th European Symposium on Thermal Analysis and Calorimetry ESTAC 12 : 27-30 August 2018, Brasov, Romania : book of abstracts 2018 / PS2.030, p. 396 <http://estac12.org/download.php?f=../download/BoA%20ESTAC12.pdf>

Expert: Lithuanian plant would be Estonia's fastest route to nuclear energy

news.err.ee 2023 [Expert: Lithuanian plant would be Estonia's fastest route to nuclear energy](#)

Experts question necessity of new Estonia-Latvia electricity connection

news.err.ee 2025 <https://news.err.ee/1609631540/experts-question-necessity-of-new-estonia-latvia-electricity-connection>

Full-scale tests on the co-firing of peat and oil shale in an oil shale fired circulating fluidized bed boiler

Pihu, Tõnu; Konist, Alar; Nešumajev, Dmitri; Loo, Lauri; Molodtsov, Arjom; Valtsev, Aleksandr Oil shale 2017 / p. 250-262 : ill http://www.ester.ee/record=b1072685*est <https://doi.org/10.3176/oil.2017.3.04> https://artiklid.elnet.ee/record=b2824316*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Geochemical study of stable carbon and oxygen isotopes in landfilled Ca-rich oil shale ash

Leben, Kristjan; Mõtlep, Riho; Paaver, Peeter; Konist, Alar; Pihu, Tõnu; Kirsimäe, Kalle Estonian journal of earth sciences 2020 / p. 134-142 : ill <https://doi.org/10.3176/earth.2020.09> https://kirj.ee/public/Estonian_Journal_of_Earth_Sciences/2020/issue_3/earth-2020-3-121-133.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hendrik Arro - Enks = Hendrik Arro - Enks

Loosaar, Jüri; Pihu, Tõnu; Prikk, Arvi; Rootamm, Rein; Ratnik, Velda; Kuusik, Rein, keemik; Konist, Alar Hendrik Arro : publikatsioonid = Hendrik Arro : publications 2010 / lk. 19-26

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](#)

High-speed thermogravimetric analysis of the combustion of wood and Ca-rich fuel

Maaten, Birgit; Konist, Alar; Siirde, Andres 12th European Symposium on Thermal Analysis and Calorimetry ESTAC 12 : 27-30 August 2018, Brasov, Romania : book of abstracts 2018 / OP1.16, p. 72 <http://estac12.org/download.php?file=/download/BoA%20ESTAC12.pdf>

The influence of O₂ and CO₂ on the possible corrosion on steel transmission lines of natural gas

Latõšov, Eduard; Maaten, Birgit; Siirde, Andres; Konist, Alar Energy procedia 2018 / p. 63-70 : ill <https://doi.org/10.1016/j.egypro.2018.07.034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Influence of oxy-fuel combustion of Ca-rich oil shale fuel on carbonate stability and ash composition

Konist, Alar; Valtsev, Aleksandr; Loo, Lauri; Pihu, Tõnu; Liira, Martin; Kirsimäe, Kalle Fuel 2015 / p. 671-677 : ill <https://doi.org/10.1016/j.fuel.2014.09.050> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigating the pyrolysis of oil shale using TGA-MS

Maaten, Birgit; Konist, Alar; Siirde, Andres International IX Oil Shale Conference 2017 "Oil Shale Industry in Circular Economy" : 15th-16th November 2017, [Jõhvi], Ida-Viru County, Estonia : summary 2017 / p. 30 : ill http://www.ester.ee/record=b4751282*est

Investigating the pyrolysis of oil shale using TGA-MS [Online resource]

Maaten, Birgit; Konist, Alar; Siirde, Andres 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/>

Investigation of fouling and corrosion of low-temperature reheater in a CFBC boiler

Konist, Alar Fuel 2023 / art. 127373, 8 p. : ill <https://doi.org/10.1016/j.fuel.2022.127373> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of the evolution of sulphur during the thermal degradation of different oil shales

Maaten, Birgit; Loo, Lauri; Konist, Alar; Pihu, Tõnu; Siirde, Andres Journal of analytical and applied pyrolysis 2017 / p. 405-411 : ill <https://doi.org/10.1016/j.jaap.2017.09.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kaljulaid: No claims should be made that we build the oil plant regardless

Nael, Merili; Kersa, Kristina news.err.ee 2023 [Kaljulaid: No claims should be made that we build the oil plant regardless](#)

Karmid keskkonnanoõded seavad Ida-Virumaal ohtu 500 töökohta

Gamzejev, Erik Põhjarannik 2024 / lk. 3 <https://dea.digar.ee/article/pohjarannik/2024/11/26/4.1>

Kas 110 aastat põlevkivitarkust rohepöörde prügikasti? Professor soovib hoopis uue elektrijaama ehitamist

Konist, Alar maaleht.delfi.ee 2025 <https://maaleht.delfi.ee/artikkel/120362609/kas-110-aastat-polevkivitarkust-rohepoorde-prugikasti-professor-soovib-hoopis-ue-elektrijaama-ehitamist>

"Kas 350 miljonit läheb vanarauaks" : lühike ülevaade

Konist, Alar Elektriala 2023 / lk. 12-13 https://www.ester.ee/record=b1240496*est

Kas põlevkivienergeetikal on tulevikku?

Konist, Alar Riigikogu Toimetised 2023 / lk. 41-50 : ill https://rito.riigikogu.ee/wordpress/wp-content/uploads/2023/06/RiTo_47_2023.pdf https://www.ester.ee/record=b1361123*est

Kas põlevkivil on kohta ka tulevikus?

Konist, Alar Riigikogu Toimetised 2019 / lk. 201-212 : ill <https://rito.riigikogu.ee/eelmised-numbrid/kas-polevkivil-on-kohta-ka-tulevikus/> https://www.ester.ee/record=b1361123*est

Kaubapõlevkivi = Oil shale as a product

2023 https://www.ester.ee/record=b5650547*est

Kliimamuutuste leevendamine läbi CCS ja CCU tehnoloogiate

Konist, Alar TeadusEST 2021 : teaduse roll riigi juhtimisel 2021 / lk. 6 : ill https://www.ester.ee/record=b5482277*est

Kliimamuutuste leevendamine läbi CCS JA CCU tehnoloogiate (ClimMit) : lõpparuanne

Siirde, Andres; Järvik, Oliver; Nešumajev, Dmitri; Gušča, Julija; Uibu, Mai; Trikkel, Andres; Pihu, Tõnu; Konist, Alar; Maaten, Birgit; Liira, Martin; Hazak, Aaro; Männasoo, Kadri; Sander, Priit; Kask, Kaia; Poltimäe, Helen; Yörük, Can Rüstü 2021

Kliimaneutraalsus on saavutatav ka põlevkiviga, rakendades CO₂ püüdmise CCU- ja CCS-tehnoloogiaid

Konist, Alar TööstusEST 2021 / lk. 62-64 : ill http://www.ester.ee/record=b4481084*est

Konist: Eesti peaks energeetikas keskenduma eelkõige oma ressurssidele

Konist, Alar err.ee 2025 [Konist: Eesti peaks energeetikas keskenduma eelkõige oma ressurssidele](#)

Konist: Eesti peaks kiirendama kasvuhoonegaaside vähendamist, aga kuidas?

Konist, Alar err.ee 2024 [Konist: Eesti peaks kiirendama kasvuhoonegaaside vähendamist, aga kuidas?](#)

Konist: energia tootmine peaks olema kui supi keetmine, Strandberg: kui taastuenergiat õnnestub salvestada, siis energiakriise ei saagi tekkida [Võrguväljaanne]

Konist, Alar; Strandberg, Marek pealinn.ee 2022 "[Konist: energia tootmine peaks olema kui supi keetmine, Strandberg: kui taastuenergiat õnnestub salvestada, siis energiakriise ei saagi tekkida](#)"

Large-scale experimental investigation of heat transfer augmentation technique in gas-heated channels

Nešumajev, Dmitri; Pihu, Tõnu; Konist, Alar; Siirde, Andres International Heat Transfer Conference 16 : 2018, 10-15 August, Beijing, China 2018 / p. 5619-5626 <http://dx.doi.org/10.1615/IHTC16.hte.024075>

Leedus kummitab Ignalina tuumajaama vare

Kapper, Külli postimees.ee 2024 [Leedus kummitab Ignalina tuumajaama vare](#)

Long-term mineral transformation of Ca-rich oil shale ash waste

Leben, Kristjan; Mötlep, Riho; Paaver, Peeter; Konist, Alar; Pihu, Tõnu Science of the total environment 2019 / p. 1404-1415 : ill <https://doi.org/10.1016/j.scitotenv.2018.12.326> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Low grade fuel - oil shale and biomass co-combustion in CFB boiler

Konist, Alar; Pihu, Tõnu; Nešumajev, Dmitri; Külaots, Indrek Oil shale 2013 / p. 294-304 : ill https://artiklid.elnet.ee/record=b2631751*est <https://doi.org/10.3176/oil.2013.2S.09> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mineral and heavy metal composition of oil shale ash from oxyfuel combustion

Konist, Alar; Nešumajev, Dmitri; Baird, Zachariah Steven; Anthony, Edward J.; Maasikmets, Marek; Järvik, Oliver ACS Omega 2020 / p. 32498–32506 : ill <https://doi.org/10.1021/acsomega.0c04466> [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 JTACC+V4 : 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference: Budapest Hungary, June 6-9, 2017 : Book of Abstracts 2017 / p. 100-101 <https://static.akcongress.com/downloads/jtacc/jtacc2017-book-of-abstracts.pdf>

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](#)

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

Maaten, Birgit; Loo, Lauri; Konist, Alar JTACC+V4 : 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference : June 6–9, 2017, Budapest, Hungary : Book of Abstracts 2017 / p. 100-101 : ill <https://static.akcongress.com/downloads/jtacc/jtacc2017-book-of-abstracts.pdf>

Mineral sequestration of CO₂ by carbonation of Ca-rich oil shale ash in natural conditions

Konist, Alar; Maaten, Birgit; Loo, Lauri; Nešumajev, Dmitri; Pihu, Tõnu Oil shale 2016 / p. 248-259 : ill <https://doi.org/10.3176/oil.2016.3.04> https://artiklid.elnet.ee/record=b2798381*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mis võivad olla Eesti kõrgete energiahindade juurpõhjused?

Konist, Alar Arvamus, kultuur : [ajalehe Postimees lisa] 2022 / Lk. 9 <https://dea.digar.ee/article/ak/2022/01/15/8.1>

NO_x and N₂O emissions from Ca-rich fuel conversion in oxyfuel circulating fluidized bed combustion

Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar Thermal science and engineering progress 2023 / art. 101938 <https://doi.org/10.1016/j.tsep.2023.101938> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oil shale - where industry meets research

Konist, Alar International Symposium "Oil shale 100 years" : Estonia, Sept. 20-23, 2016 : [abstracts] 2016 / p. 21

Oil shale CFBC ash cementation properties in ash fields

Pihu, Tõnu; Arro, Hendrik; Prikk, Arvi; Rootamm, Rein; Konist, Alar Fuel 2012 / p. 172-180 : ill <https://www.sciencedirect.com/science/article/pii/S0016236111005242>

Oil shale oxyfuel CFB combustion = Oxyfuel tehnoloogia rakendamine põlevkivi CFB põletamisele

Baqain, Mais Hanna Suleiman 2024 https://www.ester.ee/record=b5685168*est <https://digikogu.taltech.ee/et/Item/0fdc7a64-d5bc-4310-aec2-88bfd867bce9> <https://doi.org/10.23658/taltech.26/2024>

Oil shale pulverized firing : boiler efficiency, ash balance and flue gas composition

Konist, Alar; Pihu, Tõnu; Nešumajev, Dmitri; Siirde, Andres Oil shale 2013 / p. 6-18 : ill https://artiklid.elnet.ee/record=b2604229*est
<https://doi.org/10.3176/oil.2013.1.02> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oil shale pyrolysis products and the fate of sulfur

Maaten, Birgit; Järvik, Oliver; Pihl, Olga; Konist, Alar; Siirde, Andres Oil shale 2020 / p. 51–69 : tab https://www.kirj.ee/33071/?tpl=1061&c_tpl=1064 <https://doi.org/10.3176/oil.2020.1.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oma tuumajaam vajab rohkelt ettevalmistust

Vedler, Sulev ekspress.ee 2023 [Oma tuumajaam vajab rohkelt ettevalmistust](#)

Oxyfuel conversion of Ca-rich fuel in a 60 kWth circulating fluidized bed

Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar Proceedings of the 16th Greenhouse Gas Control Technologies Conference (GHGT-16) 23-24 Oct 2022 2022 / p. 1-10 <https://doi.org/10.2139/ssrn.4276982>

Oxygen influence on Estonian kukersite oil shale devolatilization and char combustion

Loo, Lauri; Maaten, Birgit; Nešumajev, Dmitri; Konist, Alar Oil shale 2017 / p. 219-231 : ill <https://doi.org/10.3176/oil.2017.3.02>
http://www.ester.ee/record=b1072685*est https://artiklid.elnet.ee/record=b2824314*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Parim lahendus on põlevkivist elektri tootmine

Konist, Alar postimees.ee 2023 / Lk. 13 [Parim lahendus on põlevkivist elektri tootmine](#) <https://dea.digar.ee/article/postimees/2023/02/17/14.6>

PCC production from calcium-rich oxy-fuel CFBC ash

Loo, Lauri; Konist, Alar; Zevenhoven, Ron 30th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2017), San Diego, California, USA, 2 - 6 July 2017 2017 / p. 1672-1681 : ill https://www.etis.ee/File/DownloadPublic/8958054d-0303-4446-be47-7a3374d71625?name=ECOS_Loo%20et%20al-final.pdf&type=application%2Fpdf <http://toc.proceedings.com/39394webtoc.pdf>

Phase transformation and strength of hydrated circulating fluidised bed combustion ash sediment in an open environment over 15 years: implications for the long-term stability of ash waste plateaus

Konist, Alar; Paaver, Peeter; **Pihu, Tõnu;** Kirsimäe, Kalle Oil Shale 2024 / p. 145-162 : ill <https://doi.org/10.3176/oil.2024.3.01>
https://www.ester.ee/record=b1072685*est [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](#)

Power plant ash composition transformations during load cycling [Online resource]

Rummel, Leo; Nešumajev, Dmitri; Konist, Alar Chemical engineering transactions 2018 / p. 655-660 : ill
<https://doi.org/10.3303/CET1870110> [Journal metrics at Scopus](#) [Article at Scopus](#)

Power plant fuel consumption rate during load cycling

Nešumajev, Dmitri; Rummel, Leo; Konist, Alar; Ots, Arvo; Parve, Teet Applied energy 2018 / p. 124-135 : ill
<https://doi.org/10.1016/j.apenergy.2018.04.063> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Prediction of total product composition from pyrolysis and gasification of lignocellulosic biomass : a model for reactor design and optimization

Ochieng, Richard; **Ceron, Alejandro Lyons; Konist, Alar;** Sarker, Shiplu European biomass conference and exhibition proceedings 2023 / p. 959-965 <http://www.etaflorence.it/proceedings/> <https://doi.org/10.5071/31stEUBCE2023-5BV.10.5> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Professor : Eesti ei peaks Vene elektrisüsteemist kergekäeliselt lahkuma

Põlendik, Kadri; Luts, Janek err.ee 2022 / fot [Professor : Eesti ei peaks Vene elektrisüsteemist kergekäeliselt lahkuma](#)

Professor Alar Konist: kust kohast me lähitulevikus oma elektri välja võlume? [Võrguväljaanne]

Konist, Alar pohjarannik.postimees.ee 2021 ["Professor Alar Konist: kust kohast me lähitulevikus oma elektri välja võlume?"](#)

Professor Alar Konist: meretuuleparkide toetusraha eest tuleks ehitada hoopis uus põlevkivielektrijaam

Konist, Alar Maalet 2025 / Lk. 12-14 <https://dea.digar.ee/article/maaleht/2025/03/20/15.1>

Properties and environmental impact of oil shale ash landfills

Pihu, Tõnu; Konist, Alar; Puura, Erik; Liira, Martin; Kirsimäe, Kalle Oil shale 2019 / p. 257–270 : ill
http://www.kirj.ee/public/oilshale_pdf/2019/issue_2/OS-2019-2-257-270.pdf <https://doi.org/10.3176/oil.2019.2.01> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Põhjalik analüüs: kas põlevkivienergeetikal on tulevikku?

rohe.geenius.ee 2023 [Põhjalik analüüs: kas põlevkivienergeetikal on tulevikku?](#)

Põlevkivienergeetika tulevikus

Konist, Alar Maaleht 2023 / Lk. 19 <https://dea.digar.ee/article/maaleht/2023/02/02/19.2> Professor Alar Konist: et saada põlevkivielektrit ka tulevikus, on vaja tehnoloogiapööret

Põlevkivist elektri tootmine ei ole tulevik

Kasepõld, Kaspar Postimees 2023 / Lk. 13 <https://dea.digar.ee/article/postimees/2023/03/10/14.7>

Põlevkivist toodetud elektril on tulevikku ...

Konist, Alar Elektriala 2023 / lk. 8-9 : portr., fot https://www.ester.ee/record=b1240496*est

Põlevkivituhk aitab püüda ohtlikke elemente

Konist, Alar; Järvik, Oliver novaator.err.ee 2024 [Põlevkivituhk aitab püüda ohtlikke elemente](#)

Põlevkiviõli jätab kliimale suurema jälje kui põlevkivi põletamine või nafta : Avalikes aruteludes tuuakse ikka ja jälle põlevkivist õli tootmist esile kui Eesti sammu kliimahoidlikkuse poole, kuid see pole nii

Parksepp, Anette Eesti Päevaleht 2020 / Lk. 18-19 : ill https://www.ester.ee/record=b1072079*est <https://epl.delfi.ee/kliima/polevkivioli-jatab-kliimale-suurema-jalje-kui-polevkivi-poletamine-voi-nafta?id=89114039>

Quantification of oil shale industry ash flows – their chemical and mineralogical composition

Ummik, Mari-Liis; Tamm, Kadriann; Järvik, Oliver; Nešumajev, Dmitri; Roosalu, Kati; Pihu, Tõnu; Konist, Alar Oil shale 2025 / p. 129-166 <https://doi.org/10.3176/oil.2025.2.01>

Quantitative compositional analysis of Estonian shale oil using comprehensive two dimensional gas chromatography

Ristic, Nenad D.; Djokic, Marko R.; **Konist, Alar**; Van Geem, Kevin M.; Marin, Guy B. Fuel processing technology 2017 / p. 241-249 : ill <https://doi.org/10.1016/j.fuproc.2017.07.008> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reactivities of American, Chinese and Estonian oil shale semi-cokes and Argonne premium coal chars under oxy-fuel combustion conditions

Culin, Chris; Tente, Kevin; **Konist, Alar; Maaten, Birgit; Loo, Lauri** Oil shale 2019 / p. 353-369 : ill http://www.kirj.ee/32526/?tpl=1061&c_tpl=1064 <https://doi.org/10.3176/oil.2019.3.01> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reducing CO2 emissions with oil shale circulating fluidized bed boiler ash

Konist, Alar; Pihu, Tõnu 21st international conference on fluidized bed combustion : Naples (Italy), June 3-6, 2012 : proceedings. Vol. 2 2012 / p. 1117-1122

Reducing of carbon dioxide emissions at oil shale ash deposition

Pihu, Tõnu; Arro, Hendrik; Konist, Alar; Kuusik, Rein, keemik; Prikk, Arvi; Uibu, Mai International Oil Shale Symposium : Tallinn, Estonia, June 8-11, 2009 : future energy solutions : come and share your vision! 2009 / p. 49-50 http://www.ester.ee/record=b4775098*est

Remote energy lab - experience and improvements of European cooperation in remote labs

Klüh, Daniel; **Baqain, Mais Hanna Suleiman; Lyons Ceron, Alejandro**; Novak, Ondrej; Bily, Tomas; **Konist, Alar**; Gaderer, Matthias SEFI 2022 : 50th Annual Conference of The European Society for Engineering Education : proceedings 2022 / p. 2012-2017 <http://www.sefi.be/wp-content/uploads/2022/12/ebook-sefi-2022-1.pdf>

Riigikontrolli hävitav hinnang: Eestis võib mõne aasta pärast tekkida probleeme elektri varustuskindlusega

Lepik, Piret arileht.delfi.ee 2023 [Riigikontrolli hävitav hinnang: Eestis võib mõne aasta pärast tekkida probleeme elektri varustuskindlusega](#)

Riigikontrolli hävitav hinnang: Eestis võib mõne aasta pärast tekkida probleeme elektri varustuskindlusega

Lepik, Piret arileht.delfi.ee 2023 [Riigikontrolli hävitav hinnang: Eestis võib mõne aasta pärast tekkida probleeme elektri varustuskindlusega](#)

Riiklike tehnikaprofessuuride ees seisab rida väljakutseid

Kers, Jaan TööstusEST 2023 / lk. 32-34 : ill https://www.ester.ee/record=b4481084*est

Riiklike tehnikaprofessuuride väljakutsed roheleppe, ringmajanduse ja digiteerimise valguses

Kers, Jaan Mente et Manu 2022 / lk. 26-27 https://www.ester.ee/record=b1242496*est

Rohelepe ei tohiks põlevkivi välistada

Konist, Alar Postimees 2021 / Lk. 7 ["Rohelepe ei tohiks põlevkivi välistada "](#)

Rohepööre, energeetika proovikivi

Konist, Alar Horisont 2021 / lk. 18-24 : fot https://www.ester.ee/record=b1072243*est

Short-term tests on firing oil shale fuel applying low-temperature vortex technology

Pihu, Tõnu; Konist, Alar; Nešumajev, Dmitri; Loosaar, Jüri; Siirde, Andres; Parve, Teet; Molodtsov, Artjom Oil shale 2012 / p. 3-17 : ill https://artiklid.elnet.ee/record=b2479209*est

SO2 emissions from oil shale oxyfuel combustion in a 60 kWth circulating fluidized bed

Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar Energies 2024 / art. 4567 <https://doi.org/10.3390/en17184567>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solid heat carrier oil shale retorting technology with integrated CFB technology

Nešumajev, Dmitri; Pihu, Tõnu; Siirde, Andres; Järvik, Oliver; Konist, Alar Oil shale 2019 / p. 99–113 : ill
<https://doi.org/10.3176/oil.2019.2S.02> http://www.kirj.ee/public/oilshale_pdf/2019/issue_2S/OS-2019-2S-99-113.pdf [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal stability of amine and carboxylic acid based protic ionic liquids from the perspective of thermal energy storage

Kaljusmaa, Liisa-Maria; Tubli, Diandra; Adamson, Jasper; Konist, Alar; Järvik, Oliver Journal of Molecular Liquids 2025 / art. 127396 <https://doi.org/10.1016/j.molliq.2025.127396>

Steam activation of oil shale to enhance the porosity of produced semicoke

Pikkor, Heliis; Lees, Heidi; Konist, Alar; Järvik, Oliver; Maaten, Birgit Energy Sources, Part A : Recovery, Utilization, and Environmental Effects 2022 / p. 9064-9073 <https://doi.org/10.1080/15567036.2022.2128471> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

Surface area of oil shale and its solid pyrolysis products depending on the particle size

Pikkor, Heliis; Maaten, Birgit; Baird, Zachariah Steven; Järvik, Oliver; Konist, Alar; Lees, Heidi Chemical engineering transactions 2020 / p. 961–966 <https://doi.org/0.3303/CET2081161> [Journal metrics at Scopus](#) [Article at Scopus](#)

Surface characterisation of Estonian oil shale semi-coke

Pikkor, Heliis; Lees, Heidi; Maaten, Birgit; Järvik, Oliver; Konist, Alar Chemical engineering transactions 2020 / p. 853-858 : ill
<https://doi.org/0.3303/CET2081143> [Journal metrics at Scopus](#) [Article at Scopus](#)

Süsiniku püüdmine aitaks vähendada Eesti CO2 heitmeid, kuid kergitab elektri hind [Võrgu väljanne]

Oldermäe, Jaan-Juhan novaator.err.ee 2020 / fot [Süsiniku püüdmine aitaks vähendada Eesti CO2 heitmeid, kuid kergitab elektri hind](#)

Synthesis strategies and hydrogen storage performance of porous carbon materials derived from bio-oil

Xu, Fanfan; Nešumajev, Dmitri; Konist, Alar Chemical engineering journal 2025 / art. 159381
<https://doi.org/10.1016/j.cej.2025.159381>

Tallinna TTK Lämpöteknikan laitos : päästömittaukset 2006

Konist, Alar; Parve, Teet; Loosaar, Jüri XVI Valtakunnalliset Päästömittaajapäivät : Lahti, 12-13.04.2007 2007 / [11] p

TalTech professor urges network fee pricing revamp, keeping oil shale

Konist, Alar news.err.ee 2023 [TalTech professor urges network fee pricing revamp, keeping oil shale](#)

Tark ei torma: kas Eesti energiapoliitika on liialt rutakas?

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/tark-ei-torma-kas-eesti-energiapoliitika-on-liialt-rutakas/>

A technical analysis of oil shale firing power units retrofitting for carbon capture and storage (CCS)

Konist, Alar; Järvik, Oliver; Baird, Zachariah Steven; Nešumajev, Dmitri Proceedings of the 15th Greenhouse Gas Control Technologies Conference 15-18 March 2021 2021 / 7 p <https://doi.org/10.2139/ssrn.3819278>

Technical concept and process modeling of a pilot-scale fluidized bed conversion facility

Xu, Fanfan; Nešumajev, Dmitri; Järvik, Oliver; Martins, Ants; Konist, Alar Fuel 2026 / art. 137166
<https://doi.org/10.1016/j.fuel.2025.137166>

Techno-economic assessment of CO2 capture possibilities for oil shale power plants

Saia, Artjom; Nešumajev, Dmitri; Hazak, Aaro; Sander, Priit; Järvik, Oliver; Konist, Alar Renewable and sustainable energy reviews 2022 / art. 112938, 11 p. : ill <https://doi.org/10.1016/j.rser.2022.112938> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tehnikaülikool rakendab rohepöörde veduriks sünergia

digi.geenius.ee 2024 [Tehnikaülikool rakendab rohepöörde veduriks sünergia](#)

TG-MS analysis and kinetic study of co-combustion of ca-rich oil shale with biomass in air and oxy-like conditions

Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar Carbon capture science & technology 2024 / art. 100162

<https://doi.org/10.1016/j.ccst.2023.100162> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The composition and reactivity of different oil shales and the products formed during thermal treatment = Erinevate põlevkivide koostis ja reaktiivsus ning nende termilisel töötlusel tekkivad produktid

Maaten, Birgit 2018 http://www.ester.ee/record=b4905661*est <https://digi.lib.ttu.ee/i/?9817> https://www.ester.ee/record=b4905661*est

The oil-shale 1,5 D combustion model for circulating fluidized bed (CBF) boilers

Nešumajev, Dmitri; Pihu, Tõnu; Konist, Alar; Siirde, Andres International IX Oil Shale Conference 2017 "Oil Shale Industry in Circular Economy" : 15th-16th November 2017, [Jõhvi], Ida-Viru County, Estonia : summary 2017 / p. 27
http://www.ester.ee/record=b4751282*est

Thermal decomposition behaviors and kinetic parameter calculations during common reed and its components pyrolysis

Xu, Fanfan; Nešumajev, Dmitri; Konist, Alar Renewable Energy 2025 / art. 123130 <https://doi.org/10.1016/j.renene.2025.123130>
<https://www.sciencedirect.com/science/article/pii/S096014812500792X>

Toodame koos elektriga ka vajaminevaid materjale! : [juhtkiri]

Konist, Alar Elektriala 2023 / lk. 5 : fot https://www.ester.ee/record=b1240496*est

TTÜ professor soovitas muuta elektri võrgutasude hinnastamist ja jätkata põlevkivienergeetikaga

Ots, Mait err.ee 2023 TTÜ professor soovitas muuta elektri võrgutasude hinnastamist ja jätkata põlevkivienergeetikaga [Energeetikaprofessor Alar Konist: põlevkivi ja põlevkivitehnoloogiat võiksime ka tulevikus kasutada](#)

TTÜ professor: Riik ei peaks elektri tootmisel välistama põlevkivi [Võrguväljaanne]

Konist, Alar rohe.genius.ee 2022 [TTÜ professor: Riik ei peaks elektri tootmisel välistama põlevkivi](#)

Utilization of pyrolytic wastewater in oil shale fired CFBC boiler

Konist, Alar; Järvik, Oliver; Pikkor, Heliis; Nešumajev, Dmitri; Pihu, Tõnu Journal of cleaner production 2019 / p. 487-493 : ill
<https://doi.org/10.1016/j.jclepro.2019.06.213> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Uued inimesed ja positsioonid

Kõrbe Kaare, Kati; Veltri, Niccolo; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit; Konist, Alar; Sildever, Sirje; Avarmaa, Mari Mente et Manu 2023 / lk. 49-53 : fot https://www.ester.ee/record=b1242496*est

Äkki ikka vana hea põlevkivi aitab meil energiavaesusest pääseda?

Konist, Alar TööstusEST 2021 / lk. 60-61 : fot http://www.ester.ee/record=b4481084*est

Ükski erakond kallid elektri probleemide lahendusi ei paku

Konist, Alar Postimees 2023 / Lk. 14 [Ükski erakond kallid elektri probleemide lahendusi ei paku](#)
<https://dea.digar.ee/article/postimees/2023/01/17/14.12>

Алар Конист: Откуда мы станем в ближайшем будущем получать свою электроэнергию? [Online resource]

Konist, Alar severnojeopoberezhje.postimees.ee 2021 ["Алар Конист: Откуда мы станем в ближайшем будущем получать свою электроэнергию?"](#)

Алар Конист: по сравнению с остальной Европой нормы выбросов в Эстонии слишком строгие

Konist, Alar rus.err.ee 2024 [Алар Конист: по сравнению с остальной Европой нормы выбросов в Эстонии слишком строгие](#)

Конист: Эстонии следует прежде всего полагаться на собственные ресурсы в развитии энергетики

Konist, Alar rus.err.ee 2025 [Конист: Эстонии следует прежде всего полагаться на собственные ресурсы в развитии энергетики](#)

Ни одна партия не предлагает решения проблемы дорогого электричества

Konist, Alar rus.postimees.ee 2023 [Ни одна партия не предлагает решения проблемы дорогого электричества](#)

Откуда мы станем в ближайшем будущем получать свою электроэнергию? [Online resource]

Konist, Alar Северное побережье (Пыхьяранник) 2021 ["Откуда мы станем в ближайшем будущем получать свою электроэнергию?"](#)

Парламент в качестве вопроса государственной важности обсудил плюсы и минусы "зеленого поворота"

Oižinski, Vladimir rus.err.ee 2023 [Парламент в качестве вопроса государственной важности обсудил плюсы и минусы "зеленого поворота"](#)

Профессор Алар Конист: такими темпами о дешевом электричестве можно забыть

Konist, Alar dv.ee 2025 <https://www.dv.ee/novosti/2025/05/05/professor-alar-konist-takimi-tempami-o-deshevom-jelektrichestve-mozhno-zabyt>

Профессор энергетики призвал Эстонию покинуть биржу электроэнергии [Online resources]

rus.postimees.ee 2022 [Профессор энергетики призвал Эстонию покинуть биржу электроэнергии](#)

Профессор: в Эстонии есть все предпосылки для развития сланцевой энергетики

stena.ee 2023 [Профессор: в Эстонии есть все предпосылки для развития сланцевой энергетики](#) Парламент в качестве вопроса государственной важности обсудил плюсы и минусы "зеленого поворота"

Профессор: мы слишком мало инвестировали в энергетику [Online resource]

Konist, Alar Stolitza.ee 2022 ["Профессор: мы слишком мало инвестировали в энергетику"](#)

Строгие требования по окружающей среде ставят под угрозу 500 рабочих мест в Ида-Вирумаа

Gamzejev, Erik Severnoje Poberezhje Северное побережье 2024 [Строгие требования по окружающей среде ставят под угрозу 500 рабочих мест в Ида-Вирумаа](#)

Эксперт о проблемах Eesti Energia: наши нормы выбросов строже, чем в Европе

rus.postimees.ee 2024 [Эксперт о проблемах Eesti Energia: наши нормы выбросов строже, чем в Европе](#)