

Aerodynamic conditions by fluidized bed combustion of Estonian oil shale

Dušenko, Veera; Mere, Harri; Tiikma, Toomas; Vrager, Allan Abstracts : Symposium on Oil Shale 2002, 18-21 November 2002, Tallinn, Estonia 2002 / p. 24 https://www.ester.ee/record=b1703301*est

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](#)

Atmospheric emissions reduction by introducing oil shale circulating fluidized bed combustion

Arro, Hendrik; Loosaar, Jüri; Parve, Teet; Pihu, Tõnu; Prikk, Arvi 6th International Conference on Emission Monitoring : 9-11 June, Milan, 2004 2004 / p. ?

Behaviour of high carbonate content fuel in PF and FBC conditions

Ots, Arvo Abstracts of 4th UK Meeting on Coal Research and Its Application 2002 / p. 16-17

Calculation analysis of shale oil and power cogeneration

Lausmaa, Toomas; Ots, Arvo; Poobus, Arvi; Dedov, Andrei Oil shale 2019 / p. 19-31 : ill <https://doi.org/10.3176/oil.2019.1.02> http://www.kirj.ee/public/oilshale_pdf/2019/issue_1/OS-2019-1-19-31.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

Change of operation conditions of boilers heating surfaces at transition from pulverized firing of oil shale to fluidised bed technology

Arro, Hendrik; Prikk, Arvi; Pihu, Tõnu XXXII Kraftwerkstechnisches Kolloquium. Nutzung schwieriger Brennstoffe in Krzaftwerken : 24-25 October, 2000 2000 / S. 13

Characterization of oil shale ashes formed at industrial-scale CFBC boilers

Kuusik, Rein, keemik; Uibu, Mai; Kirsimäe, Kalle Oil shale 2005 / 4S, p. 407-419 : ill https://artiklid.elnet.ee/record=b2352613*est

Chemical-looping combustion with natural gas using spray-dried NiO-based oxygen carriers

Linderholm, C.; Lyngfelt, Anders; Beal, C.; Triikkel, Andres; Kuusik, Rein, keemik; Jerndal, E.; Mattisson, Tobias Carbon dioxide capture for storage in deep geological formations. 3 2009 / [8] p

Circulating fluidized bed and two-fluid model

Krupenski, Igor; Kartušinski, Aleksander; Siirde, Andres; Rudi, Ülo 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 85-88 : ill

Circulating fluidized bed boilers

Prikk, Arvi; Hiltunen, Matti; Makkonen, P. Oil shale 1997 / 3, p. 254-264: ill

Circulating fluidized bed combustion - the technology exact for Estonian oil shale

Prikk, Arvi; Arro, Hendrik Oil shale 1997 / 3, p. 209-214: ill

Circulating fluidized bed technology - test combustion of Estonian oil shale

Arro, Hendrik; Prikk, Arvi; Kasemetsa, J. Oil shale 1997 / 3, p. 215-217: ill

CO₂ emission from circulating fluidized bed boiler firing Estonian oil shale fuel with different quality

Plamus, Kristjan 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 93-97 : ill

CO₂ rebinding by oil shale CFBC ashes : effect of pre-treatment

Triikkel, Andres; Keelmann, Merli; Aranson, Aljona; Kuusik, Rein, keemik Proceedings of the 20th International Conference on Fluidized Bed Combustion. II 2009 / p. 1123-1129

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](#)

Combustion of Baltic oil shale in boilers with fluidized bed combustion

Nešumajev, Dmitri; Ots, Arvo; Parve, Toomas; Pihu, Tõnu; Plamus, Kristjan; Prikk, Arvi Power technology and engineering 2011 / p. 382-385

Combustion of Estonian oil shale in fluidized bed boilers, heating value of fuel, boiler efficiency and CO₂ emissions
Arro, Hendrik; Prikk, Arvi; Pihu, Tõnu Oil shale 2005 / 4S, p. 399-405 : ill https://artiklid.elnet.ee/record=b2352608*est

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 two technologies for burning Estonian oil shale : bubbling fluidized bed and circulating fluidized bed

Dušenko, Veera; Mere, Harri Abstracts : Symposium on Oil Shale 2002, 18-21 November 2002, Tallinn, Estonia 2002 / p. 67-68
https://www.ester.ee/record=b1703301*est

Composition of oil shale ashes from pulverized firing and circulating fluidized-bed boiler in Narva Thermal Power Plants

Bitjukova, Liidia; Mötlep, Riho; Kirsimäe, Kalle Oil shale 2010 / 4, p. 339-353 : ill https://artiklid.elnet.ee/record=b2185248*est

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

Corrosion of air preheater tubes of oil shale CFB boiler. Part II, Laboratory investigation of temperature impact

Tallermo, Harri; Klevtsov, Ivan; Dedov, Andrei Oil shale 2009 / p. 13-18 : ill https://artiklid.elnet.ee/record=b1141180*est

Degradation of persistent micropollutants in suspended-bed reactor by photocatalytic oxidation and combination of biological treatment with photocatalysis = Püsivate mikrosaaasteainete lagundamine keevkihtreaktoris fotokatalüütilise oksüdatsiooniga ning bioloogilise oksüdatsiooni kombineerimine fotokatalüüsiga

Pronina, Natalja 2017 <https://digi.lib.ttu.ee/i/?7661> https://www.ester.ee/record=b4671593*est

Determination of circulating fluidized bed boiler thermal efficiency burning oil shale with different properties

Plamus, Kristjan 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 146-148 : ill

Eesti Elektri jaama ringleva keevkihiga koldes tekkivad põlevkivituhad SO₂ sorbendina

Toom, Merli; Kaljuvee, Tiit; Kuusik, Rein, keemik XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 113-114

Eesti Energia 25-miljardiline salaplaan : [Arvo Otsa kommentaariga]

Laurisaar, Riho; Ots, Arvo Eesti Päevaleht 2004 / 31. det., Reaktor, lk. 9 : ill <https://epl.delfi.ee/artikkel/51000579/eesti-energia-25-miljardiline-salaplaan>

Effect of ageing pre-treatment on performance of PF oil shale ash for CO₂ sequestration in aqueous suspensions

Uibu, Mai; Kuusik, Rein, keemik Third International Conference on Accelerated Carbonation for Environmental and Materials Engineering : ACEME10 : November 29 - December 1, 2010, Turku, Finland : proceedings 2010 / p. 317-321 : ill
<http://www.cgseurope.net/UserFiles/file/1st%20Kickoff%20meeting/Posters/P8-Uibu.pdf>

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

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

Estonian calcareous rocks as SO₂ sorbents in AFBC and PFBC conditions

Triikkel, Andres; Kuusik, Rein, keemik; Zevenhoven, Ron 15th International Conference on Fluidized Bed Combustion : May 16-19, 1999, Savannah, Georgia : general conference information, agenda, and abstracts 1999 / p. FBC 99-0032

Estonian calcareous rocks as SO₂ sorbents in AFBC and PFBC conditions [Electronic resource]

Triikkel, Andres; Kuusik, Rein, keemik; Zevenhoven, Ron Proceedings of the 15th International Conference on Fluidized Bed Combustion : May 16-19, 1999, Savannah, Georgia 1999 / [18] p. : ill. [CD-ROM]

Experience of Estonian oil shale combustion based on CFB technology at Narva Power Plants

Hotta, A.; Parkkonen, R.; Hiltunen, Matti; Arro, Hendrik; Loosaar, Jüri; Parve, Teet; Pihu, Tõnu; Prikk, Arvi; Tiikma, Toomas Oil

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

Extent of carbonate decomposition in CFB boiler firing oil shale with different properties

Plamus, Kristjan 5th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology : Kuressaare, January 14-19, 2008 2008 / p. 39-43 : ill

Extent of carbonate decomposition in CFB boilers firing Estonian oil shale

Arro, Hendrik; Pihu, Tõnu; Prikk, Arvi; Rootamm, Rein Circulating Fluidized Bed Technology IX : proceedings of the 9th International Conference on Circulating Fluidized Beds in conjunction with 4th International VGB Workshop "Operating Experience with Fluidized Bed Firing Systems" : May 13-16, 2008, Hamburg, Germany 2008 / p. 595-599 : ill
https://www.researchgate.net/publication/289667079_Extent_of_carbonate_decomposition_in_CFB_boilers_firing_estonian_oil_shale

Firing Estonian oil shale fuel in CFB boilers

Loosaar, Jüri; Arro, Hendrik; Nešumajev, Dmitri; Plamus, Kristjan; Ots, Arvo; Parve, Teet; Pihu, Tõnu; Prikk, Arvi; Rušeljuk, Pavel Circulating Fluidized Bed Technology IX : proceedings of the 9th International Conference on Circulating Fluidized Beds in conjunction with 4th International VGB Workshop "Operating Experience with Fluidized Bed Firing Systems" : May 13-16, 2008, Hamburg, Germany 2008 / p. 601-606 : ill

Firing Estonian oil shale fuel in circulating fluidized bed boilers [Electronic resource]

Plamus, Kristjan; Pihu, Tõnu The 5th Annual Conference of Young Scientists on Energy Issues : CYSENI 2008 : conference proceedings 2008 / ? p. [CD-ROM]

Firing Estonian oil shale fuel with different quality in circulating fluidized bed boiler

Plamus, Kristjan; Nešumajev, Dmitri; Ots, Arvo; Parve, Teet; Pihu, Tõnu; Prikk, Arvi; Rootamm, Rein International Oil Shale Symposium : Tallinn, Estonia, June 8-11, 2009 : future energy solutions : come and share your vision! 2009 / p. 64-65
http://www.ester.ee/record=b4775098*est

Firing Estonian oil shale in CFB boilers

Arro, Hendrik; Loosaar, Jüri; Ots, Arvo; Pihu, Tõnu; Prikk, Arvi; Rušeljuk, Pavel; Hiltunen, Matti; Hotta, A.; Parkkonen, R.; Peltola, K. Proceedings of 19th FBC Conference from May 21 - May 24 2006 in Vienna, Austria. Part II 2006 / [10] p. : ill

Firing Estonian oil shale in CFB boilers - ash balance and behaviour of carbonate minerals

Plamus, Kristjan; Ots, Arvo; Pihu, Tõnu; Nešumajev, Dmitri Oil shale 2011 / 1, p. 58-67 : ill
https://artiklid.elnet.ee/record=b2284449*est

Firing Estonian oil shale of higher quality in CFB boilers - environmental and economic impact

Plamus, Kristjan; Soosaar, Sulev; Ots, Arvo; Nešumajev, Dmitri Oil shale 2011 / 1S, p. 113-126 : ill
https://artiklid.elnet.ee/record=b2286554*est

Fluidized bed combustion of oil shale retorting solid waste

Martins, Ants; Pesur, A.; Kuusik, Rein, keemik; Kaljuvee, Tiit; Trikkel, Andres; Pihu, Tõnu; Prikk, Arvi; Arro, Hendrik Abstracts : Symposium on Oil Shale 2002, 18-21 November 2002, Tallinn, Estonia 2002 / p. 49 https://www.ester.ee/record=b1703301*est

Fluidized bed pyrolysis as a new approach for shale oil production

Pikkor, Heliis; Siirde, Andres 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 277-279 : ill
http://ise.elnet.ee/record=b2950220-S2*est

Fluidized-bed combustion of oil shale retorting solid waste

Kuusik, Rein, keemik; Martins, Ants; Pihu, Tõnu; Pesur, A.; Kaljuvee, Tiit; Prikk, Arvi; Trikkel, Andres; Arro, Hendrik Oil shale 2004 / 3, p. 237-248 : ill https://artiklid.elnet.ee/record=b1016400*est

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

Heat transfer in circulating fluidized bed

Rušeljuk, Pavel 3rd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 16-21, 2006 2006 / p. 167-173 : ill

High-temperature chlorine corrosion in presence of sulfurcontaining and potassium external deposits

Priss, Jelena; Klevtsov, Ivan; Winkelmann, Horst Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM

Symposium : Intelligent Manufacturing & Automation 2012 / p. 0911-0916 : ill [CD-ROM]
https://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2012/211.pdf

Historical overview of using fluidized-bed technology for oil shale combustion in Estonia

Martins, Ants Oil shale 2012 / p. 85-99 : ill https://artiklid.elnet.ee/record=b2479247*est

Integrated use of fluidized bed technology for oil production from oil shale

Siirde, Andres; Martins, Ants Proceedings of the 20th International Conference on Fluidized Bed Combustion. 1 2009 / p. 481-485

Investigation into fouling of heat exchange surfaces for fluidized bed combustion of Estonian oil shale

Dušenko, Veera; Mere, Harri; Tiikma, Toomas; Vrager, Allan Abstracts : Symposium on Oil Shale 2002, 18-21 November 2002, Tallinn, Estonia 2002 / p. 74-75 https://www.ester.ee/record=b1703301*est

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](#)

Keevkiht-põletustehnoloogia

Ots, Arvo Teadusmõtte Eestis. 4, Tehnikateadused. 2 2007 / lk. 105-112 : ill

Keevkihttehnika rakendusi keemiatehnoloogias : [2006. a. Riigi teaduspreemia pikaajalise tulemusliku teadus- ja arendustöö eest laureaadi akadeemik Mihkel Veiderma ettekanne Eesti TA üldkogu koosolekul 6. dets. 2006]

Veiderma, Mihkel Eesti Teaduste Akadeemia aastaraamat 2006 2007 / lk. 98-106 : ill

Kitsa barbotaažkanali hüdrodünaamika uurimine

Iljasajeva, N.; Kappo, Jüri; Uus, Endel; Tearo, Eduard XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 126 https://www.ester.ee/record=b1322611*est

Konist: Eesti peaks energeetikas keskenduma eelkõige oma ressurssidele

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

Laboratory test rig for combustng Estonian oil shale in circulating fluidized bed

Dušenko, Veera; Mere, Harri; Štšeglov, Igor; Tiikma, Toomas; Vrager, Allan Oil shale 2004 / 2, p. 161-172 : ill
https://artiklid.elnet.ee/record=b1015819*est

Lendtuha ja -koksi teke Eesti põlevkivi gaasistamisel keevkihis : magistritöö

Mere, Harri 1997 https://www.ester.ee/record=b2687026*est

Mathematical model of two-phase flows loaded with light and heavy particles to analyze CFB processes

Kartušinski, Aleksander; Siirde, Andres; Rudi, Ülo; Šablinski, Aleksandr Oil shale 2011 / 1S, p. 169-180 : ill
https://artiklid.elnet.ee/record=b2286631*est

Mathematical modelling of the motion of dust-laden gases in the freeboard of CFB using the two-fluid approach

Kartušinski, Aleksander; Siirde, Andres Computational simulations and applications 2011 / p. 143-158 : ill
<https://www.intechopen.com/chapters/21780>

New 215 MWel CFB power units for Estonian oil shale [Electronic resource]

Loosaar, Jüri; Arro, Hendrik; Parve, Teet; Pihu, Tõnu; Prikk, Arvi; Tiikma, Toomas; Hiltunen, Matti Proceedings of the 18th International Conference on Fluidized Bed Combustion : May 22-25, 2005, Toronto, Ontario : ASME No 1723CD 2005 / [12] p. [CD-ROM] <https://asmedigitalcollection.asme.org/FBC/proceedings-abstract/FBC2005/41839/153/310887?redirectedFrom=PDF>

Numerical simulation of two-phase turbulent flows in ash circulating fluidized bed = Turbulentsete kahefaasiliste voolude matemaatiline modelleerimine tuha tsirkuleerivas keevkihis

Krupenski, Igor 2010 https://www.ester.ee/record=b2595716*est

Numerical simulation of two-phase turbulent flows of ash circulating in fluidized bed

Krupenski, Igor Oil shale 2011 / 1S, p. 262 https://artiklid.elnet.ee/record=b2286682*est

Numerical simulation of uprising gas and solids flow in Cfb by Euler/Euler approach

Kartušinski, Aleksander; Siirde, Andres; Rudi, Ülo; Šablinski, Aleksandr 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 169-173 : ill

Numerical simulation of uprising gas-solid particle (oil-shale ash) turbulent flow in CFB by different mathematical models

Krupenski, Igor; Kartušinski, Aleksander; Siirde, Andres Proceedings of CYSENI 2010 : the 7th Annual Conference of Young Scientists on Energy Issues : May 27-28, 2010, Kaunas, Lithuania 2010

Numerical simulation of uprising gas-solid particles flow by 2D RANS model for CFB conditions

Krupenski, Igor; Kartušinski, Aleksander; Siirde, Andres 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 256-261 : ill

Numerical simulation of uprising gas-solid particles turbulent flow in circulating fluidized bed

Šablinski, Aleksandr; Kartušinski, Aleksander; Krupenski, Igor; Siirde, Andres; Rudi, Ülo 21st International Conference on Fluidized Bed Combustion : Naples (Italy), June 3-6, 2012 : proceedings. Vol. 2 2012 / p. 946-953 : ill

Numerical simulation of uprising gas-solid particles turbulent flow using two-dimesion Reynolds Average Navier Stokes equations for fluidized beds conditions

Krupenski, Igor; Kartušinski, Aleksander; Rudi, Ülo; Siirde, Andres International Oil Shale Symposium : Tallinn, Estonia, June 8-11, 2009 : future energy solutions : come and share your vision! 2009 / p. 62 http://www.ester.ee/record=b4775098*est

Numerical simulation of uprising turbulent flow by 2D RANS for fluidized-bed conditions

Krupenski, Igor; Kartušinski, Aleksander; Siirde, Andres; Rudi, Ülo Oil shale 2010 / 2, p. 147-163 : ill
https://artiklid.elnet.ee/record=b2156207*est

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 fluidized bed retorting technology with CFB furance for burning the by-products

Siirde, Andres; Martins, Ants International Oil Shale Symposium : Tallinn, Estonia, June 8-11, 2009 : future energy solutions : come and share your vision! 2009 / p. 56-57 http://www.ester.ee/record=b4775098*est

Oil shale oxyfuel CFB combustion = Oxyfuel tehnoloogია rakendamise 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>

On the fouling of heat transfer surfaces of CFB oil shale boiler

Arro, Hendrik; Prikk, Arvi; Kasemetsa, J. Oil shale 1997 / 3, p. 218-224: ill

Overview of wear problems in circulating fluidized bed boilers

Priss, Jelena; Klevtsov, Ivan 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 / p. 157-159 : ill

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>

Peenpõlevkivi rikastamisest keevkihtkolletele

Adamson, Alo; Reinsalu, Enno Energia Teataja = Энерговестник 1996 / lk. 11-13, 42-44: ill
https://www.ester.ee/record=b1072156*est

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](#)

Possibilities for reducing the circulation ratio and mass of ashes in the furnaces of circulating fluidized bed boilers

Siirde, Andres; Martins, Ants Circulating Fluidized Bed Technology IX : proceedings of the 9th International Conference on Circulating Fluidized Beds in conjunction with 4th International VGB Workshop "Operating Experience with Fluidized Bed Firing Dystems" : May 13-16, 2008, Hamburg, Germany 2008 / p. 363-368 : ill

Primary method for reduction of SO2 emission and its impact on CO2 in pulverized oil shale-fired boilers at Narva Power Plant

Kleesmaa, Jüri; Latõšov, Eduard; Karolin, Robert Oil shale 2011 / 2, p. 321-336 : ill https://artiklid.elnet.ee/record=b2413850*est

Properties of fluidized bed burnt oil shale ashes

Raado, Lembi-Merike; Nurm, Viive European Symposium on Service Life and Serviceability of Concrete Structures : ESCS-2006 : June 12-14, 2006, Espoo, Finland : proceedings 2006 / p. 200-205 : ill

Pulverized combustion vs Circulating Fluidized Bed combustion boiler efficiency comparison

Rušeljuk, Pavel 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering.

Põlevkivi toimpõletus- ja keevkihttuuhkade vesisuspensiooni karboniseerimine

Uibu, Mai; Muulmann, Mari-Liis; **Kuusik, Rein, keemik** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 126

Põlevkivivaldkonna tehnoloogilised uuendused

Siirde, Andres TööstusEST 2018 / lk. 54-55 : ill https://www.estee.ee/record=b4481084*est <https://toostusest.ee/uudis/2018/09/04/polevkivi-tehnoloogilised-uuendused/> https://artiklid.elnet.ee/record=b2865328*est

RANS numerical modelling of turbulent polydispersed flows in CFB freeboard = Turbulentsete voolude matemaatiline RANS modelleerimine tsirkuleeriva keevkihi tingimustes

Šablinski, Aleksandr 2015 https://www.estee.ee/record=b4446487*est

Recommendations for design of Estonian oil shale fired CFB boilers

Arro, Hendrik; Prikk, Arvi; Kasemetsa, J. Oil shale 1997 / 3, p. 246-253: ill

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

Reduction of greenhouse gas emissions from energy sector

Roos, Inge; Siirde, Andres 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 154-156 : ill

Review of oil shale semicoke and its combustion utilization

Han, Xiangxin; **Külaots, Indrek**; Jiang, Xiumin; Suuberg, Eric M. Fuel 2014 / p. 143-161 : ill

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 fuel combustion in fluidized bed

Ots, Arvo 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 40-45 : ill

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](#)

Solids flow pattern in the exit region of a CFB-furnace-influence of exit geometry [Electronic resource]

Johnsson, F.; **Vrager, Allan**; Leckner, B. Proceedings of the 15th International Conference on Fluidized Bed Combustion : May 16-19, 1999, Savannah, Georgia 1999 / 20 p. [CD-ROM]

Steady-state phenol degradation in a fluidized-bed bioreactor by immobilized cells of Pseudomonas putida

Randla, Tiina; Tiisler, Lilian; Käär, Arvo; Vilu, Raivo Biobalt'92 : Biotechnology in Estonia, Latvia and Lithuania : Tallinn, November 1992 : conference abstracts 1992 / p. 84

Sulphation and carbonization of oil shale CFBC ashes in heterogeneous systems

Kuusik, Rein, keemik; Uibu, Mai; Toom, M.; Muulmann, Mari-Liis; Kaljuvee, Tiit; Triikkel, Andres Oil shale 2005 / 4S, p. 421-434 : ill https://artiklid.elnet.ee/record=b2352615*est

Sulphur and CO2-emission at transferring oil shale boilers to the fluidized bed combustion technology

Arro, Hendrik; Prikk, Arvi; Pihu, Tõnu XXXVI. Kraftwerkstechnisches Kolloquium : Entwicklungspotentiale für Kraftwerke mit fossilen Brennstoffen : 19. und 20. Oktober 2004 in Dresden. Tagungsband II 2004 / p. P27

Sulphur capture by oil shale ashes under atmospheric and pressurized FBC conditions

Yrjas, K.Patrik; **Külaots, Indrek**; Hupa, Mikko; **Ots, Arvo** Proceedings of the 13th International Conference on Fluidized Bed Combustion. Vol. 2 1995 / [7] l.: ill

Tahkekütuse keevkihtpõletustehnika

Ots, Arvo 2016 https://www.ester.ee/record=b4575896*est

Technical and ecological aspects of shale oil and power cogeneration

Ots, Arvo; Poobus, Arvi; Lausmaa, Toomas Oil shale 2011 / 1S, p. 101-112 : ill https://artiklid.elnet.ee/record=b2286549*est

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>

The chatham CFB boiler for a wide spectrum of fuels and some problems of Estonian oil shale combustion in CFB systems

Õpik, Ilmar Oil shale 1995 / 2, lk. 179-184

The impact of oil shale calorific value on CFB boiler thermal efficiency and environment = Põlevkivi kütteväärtuse mõju keevkihtkatla efektiivsusele ja keskkonnale

Plamus, Kristjan 2012 https://www.ester.ee/record=b2862227*est

The peculiarities by firing oil shale fuel with different heating value nn CFB boilers

Ots, Arvo; Parve, Teet; Pihu, Tõnu; Plamus, Kristjan; Prikk, Arvi; Nešumajev, Dmitri Научно-техническая конференция

"Технологии эффективного и экологически чистого использования угля" : 29-30 октября 2009, Москва, Россия 2009 / с. 139-145

Warranty reliability of CFB boiler burning oil shale

Suik, Heinrich; Pihu, Tõnu Oil shale 2008 / 2, p. 99-107 : ill https://artiklid.elnet.ee/record=b1456330*est

Wear of the fuel supply system of CFB boilers

Suik, Heinrich; Pihu, Tõnu; Molodtsov, Artjom Oil shale 2008 / 2, p. 209-216 : ill https://artiklid.elnet.ee/record=b2384376*est

XX rahvusvaheline keevkihi põletamise konverents Hiinas

Martins, Ants Tallinna Tehnikaülikooli aastaraamat 2009 2010 / lk. 266-268

Агломерация фосфорита при обжиге его в печи кипящего слоя

Kaljuvee, Tiit; Kuusik, Rein, keemik; Veskimäe, Helgi Комплексная переработка фосфатного сырья. Анализ природных и технических объектов 1989 / с. 42-51

Вывод системы уравнений состояния для реактора ПОС (псевдооживленного слоя)

Rebane, Jüri Тезисы докладов всесоюзного научно-технического совещания "Основные направления научно-исследовательских работ по аппаратурному оформлению электротермических и высокотемпературных процессов химических производств в десятой пятилетке" ("Термия-75") : Секция теоретическим проблем и методов экспериментальной исследования высокотемпературных гетерофазных процессов 1975 / с. 123-127

Высокотемпературная переработка фосфогипса на диоксид серы и известь в псевдооживленном слое : автореферат ... кандидата технических наук (05.17.01)

Kuusk, Anu 1983 https://www.ester.ee/record=b1516432*est

Гидродинамика трехфазного псевдооживленного слоя в узком барботажном канале

Tearo, Eduard; Uus, Endel; Kappo, Jüri Кинетические и технологические характеристики биокатализаторов 1982 / с. 79-85 :

илл https://www.ester.ee/record=b1309223*est <https://digikogu.taltech.ee/et/Item/e5bac84c-77da-4b4f-beba-795a822667c8>

Гидротермическая переработка природных фосфатов в псевдооживленном слое

Kuusik, Rein, keemik; Veiderma, Mihkel; Volkovitš, Semjon Минеральные удобрения и их применение в сельском хозяйстве : доклады III научно-технической конференции, Варна, 26-28 мая 1975 1975 / с. 194-200

Динамика газообразования при газификации эстонского горючего сланца в кипящем слое : диссертация

Dušenko, Vera 1997 https://www.ester.ee/record=b2688093*est

Использование кипящего слоя для сжигания низкосортных топлив в КНР

Paist, Aadu Проблемы работы котельных установок тепловых электростанций 1988 / с. 57-71

Исследование и испытание процессов термообработки сырья и отходов фосфатной технологии в кипящем слое

Kuusik, Rein, keemik; Veiderma, Mihkel Техника псевдооживления (кипящего слоя) и перспективы ее развития : Тезисы докладов всесоюзной научно-технической конференции (Ленинград - Поддубская, 27-30 сент. 1988 г.) 1988 / с. 39-40

Исследование обжига карбонатного шлама в печи кипящего слоя

Viisimaa, Ludmilla; Kuusik, Rein, keemik; Veiderma, Mihkel Журнал прикладной химии 1978 / с. 1087-1091 : ил
https://www.ester.ee/record=b1182398*est

Исследование процесса высокотемпературной переработки фосфогипса в псевдоожиженном слое

Kuusik, Rein, keemik; Kuusk, Anu; Veiderma, Mihkel Минеральные удобрения и их применение в сельском хозяйстве: доклады научно-технической конференции, Варна, 29–31 мая 1978 1978 / с. 142-146

Исследование процесса термической переработки фосфогипса в модельной печи кипящего слоя в токе природного газа

Veiderma, Mihkel; Volfkovitš, Semjon; Žukova, V.A.; Kuusik, Rein, keemik Тезисы докладов X Всесоюзной научной межвузовской конференции по технологии неорганических веществ и минеральных удобрений 1976 / с. 162-163
https://www.ester.ee/record=b3798493*est

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](#)

Математическая модель гидродинамики реактора кипящего слоя

Rebane, Jüri; Kallas, Juha Труды по электротехнике и автоматике : сборник статей. 12 1974 / с. 137-143 : илл
https://www.ester.ee/record=b2190668*est <https://digikogu.taltech.ee/et/Item/57b94a1f-6879-4443-b6f2-322fd7e53d89>

Математическая модель процесса обесфторивания фторапатита в псевдоожиженном слое

Rebane, Jüri Процессы и аппараты химической технологии и технология неорганических веществ. 5 1974 / с. 97-103 : илл
https://www.ester.ee/record=b1531723*est <https://digikogu.taltech.ee/et/Item/438b60cb-3265-444e-adba-b3c2c222f12a>

Математическое моделирование реакторов псевдоожиженного слоя

Rebane, Jüri; Aarna, Olav Процессы и аппараты химической технологии и технология неорганических веществ. 5 1974 / с. 85-96 : илл https://www.ester.ee/record=b1531723*est <https://digikogu.taltech.ee/et/Item/438b60cb-3265-444e-adba-b3c2c222f12a>

Модернизация печи кипящего слоя для высокотемпературной обработки природных фосфатов

Skorobogatov, V.; Novikov, V.V.; Kuusik, Rein, keemik Химическое и нефтегазовое машиностроение : научно-технический и производственный журнал 1981 / с. 4-6 : ил https://www.ester.ee/record=b2158380*est

Надежность работы поверхностей нагрева, погруженных в кипящий слой

Rootamm, Rein; Õispuu, Leo; Randmann, Rein; Mäeküla, Oskar Влияние минеральной части энергетических топлив на условия работы паровых котлов : тезисы докладов IV Всесоюзной конференции. Том III, секция 2, Высокотемпературная коррозия износ и очистка поверхностей нагрева : тезисы докладов IV Всесоюзной конференции 1986 / с.127-132 : илл
https://www.ester.ee/record=b1217230*est

О возможности применения аппарата с вихревым слоем для активации горючих сланцев

Logvinenko, D.; Morozko, E.; Katšan, L.; Tsinmaš, R.; Fadejeva, Rimma; Klementjeva, G. Горючие сланцы 1977 / с. 8-15
https://www.ester.ee/record=b1889669*est

О подготовке сланцев для сжигания в кипящем слое

Rajur, Kaido; Õispuu, Leo Влияние минеральной части энергетических топлив на условия работы парогенераторов : тезисы докладов III Всесоюзной конференции. Секция 1.Том Б, Превращение минеральной части топлива при горении и механизм загрязнения поверхностей нагрева 1980 / с. 83-88 : ил https://www.ester.ee/record=b1267023*est

О работе газораспределительной решетки печи кипящего слоя при обесфторивании природных фосфатов

Turja, Rein I республиканская конференция молодых ученых-химиков, 20-22 мая 1975 года : тезисы докладов 1975 / с. 179
https://www.ester.ee/record=b1309964*est

Обесфторивание маардуского фосфорита в псевдоожиженном слое на заводской опытной установке

Veiderma, Mihkel; Vinkman, A.O.; Volfkovitš, Semjon; Kuusik, Rein, keemik Химическая промышленность : ежемесячный научный журнал 1975 / с. 33-35 : рис https://www.ester.ee/record=b1438865*est

Обесфторивание Маардуского фосфорита, апатитового концентрата и их смесей на заводской опытной установке кипящего слоя

Kuusik, Rein, keemik; Veiderma, Mihkel; Volfkovitš, Semjon; Skorobogatov, V.; Jagodina, T. Тезисы докладов и сообщений научно-технического семинара "Обжиг и обесфторивание природных фосфатов" с 10 по 12 июня 1975 года 1975 / с. 6-7
https://www.ester.ee/record=b1314182*est

Обесфторивание оболочковых фосфоритов в псевдоожиженном слое

Veiderma, Mihkel; Kuusik, Rein, keemik; Luhakooder, Edvard VI Всесоюзная конференция по технологии неорганических веществ и минеральных удобрений : Тезисы 1968 / с. 238

Обесфторивание фторапатита в псевдоожиженном слое

Aarna, Olav; Kallas, Juha; Kracht, Wilhelm; Sidoruk, A. Процессы и аппараты химической технологии и технология неорганических веществ. 4 1973 / с. 51-58 https://www.ester.ee/record=b1386707*est <https://digikogu.taltech.ee/et/Item/72e7c5b1-8453-41a6-9821-41853b98368d>

Обжиг и обесфторивание природных фосфатов в псевдоожиженном слое

Veiderma, Mihkel; Kuusik, Rein, keemik Тезисы докладов всесоюзного научно-технического совещания "Основные направления научно-исследовательских работ по аппаратному оформлению электротермических и высокотемпературных процессов химических производств в десятой пятилетке". ("Термия-75") : Секция технологии электротермических и плазмохимических производств 1975 / с. 239-242

Обжиг сланцевого полукокса в кипящем слое

Kuusik, Rein, keemik; Veiderma, Mihkel Горючие сланцы : информационная серия I 1977 / с. 16-19 : ил. таб https://www.ester.ee/record=b1889669*est

Обжиг Чилисайских фосфоритов в печи кипящего слоя

Kaljuvee, Tiit; Kuusik, Rein, keemik; Veiderma, Mihkel Комплексное использование минерального сырья 1985 / с. 35-39 : ил., таб https://www.ester.ee/record=b2146072*est

Опыт эксплуатации двухзонной печи кипящего слоя для обесфторивания природных фосфатов на Маардуском химкомбинате

Skorobogatov, V.; Keitz, E.; **Kuusik, Rein, keemik; Turja, Rein;** Jagodina, T. Тезисы докладов и сообщений научно-технического семинара "Обжиг и обесфторивание природных фосфатов" с 10 по 12 июня 1975 года 1975 / с. 8-9 https://www.ester.ee/record=b1314182*est

Распределение серы при термической обработке горючих сланцев в установке с кипящим слоем : автореферат ... кандидата технических наук (05.14.04)

Kallaste, Evi 1978 http://www.ester.ee/record=b1899190*est

Распределение серы при термической обработке горючих сланцев в установке с кипящим слоем : диссертация ... кандидата технических наук : 05.14.04 - промышленная теплоэнергетика

Kallaste, Evi 1977 http://www.ester.ee/record=b2356433*est

Регенерация извести при обжиге карбонатного шлама в печи кипящего слоя

Viisimaa, Ludmilla; Kuusik, Rein, keemik; Veiderma, Mihkel Тезисы докладов XI Всесоюзной научной межвузовской конференции по технологии неорганических веществ и минеральных удобрений. Ч. 2. 1978 / с. 113-115

Свойства извести, регенерированной из карбонатного шлама в печи кипящего слоя

Viisimaa, Ludmilla; Kuusik, Rein, keemik; Veiderma, Mihkel Бумажная промышленность : целлюлоза, бумага, картон : ежемесячный научно-технический и производственный журнал 1978 / с. 18-19 https://www.ester.ee/record=b2132938*est

Термохимическое разложение фосфоритного фосфогипса на сернистый газ и известь в псевдоожиженном слое

Borissov, Vladimir; Videnov, N.; Solodjankina, N.L.; **Kuusik, Rein, keemik** Химическая промышленность : ежемесячный научный журнал 1982 / с. 29(541)-30(542) : табл https://www.ester.ee/record=b1438865*est

Физико-химические превращения при обжиге различных фосфоритов в кипящем слое

Veskimäe, Helgi; Veiderma, Mihkel; Kuusik, Rein, keemik Тезисы докладов и сообщений научно-технического семинара "Обжиг и обесфторивание природных фосфатов" с 10 по 12 июня 1975 года 1975 / с. 28-29 https://www.ester.ee/record=b1314182*est