Actual impact of heat pumps to energy performance of apartment buildings in Estonia
Reino, Arbo; Hamburg, Arvi 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill
https://doi.org/10.1109/RTUCON48111.2019.8982370

Aggregated energy flexibility provision using residential heat pumps
Plaum, Freddy; **Ahmadiahangar, Roya**; **Rosin, Argo** 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 5 l https://doi.org/10.1109/CPE-POWERENG54966.2022.9880898

Air-to-water heat pump monitoring in the cold climate region
Kõiv, Teet-Andrus; **Ling, Mariin**; **Tennokese, Kaspar** Innovative Solutions in the Field of Engineering Sciences : selected, peer reviewed papers from the 2014 International Conference on Applied Mechanics and Mechanical Automation (AMMA 2014), May 20-21, 2014, Macao, China 2014 / p. 599-603 : ill

Buildings' energy efficiency measures effect on CO2 emissions in combined heating, cooling and electricity production
Pylsy, Petri; **Lylykangas, Kimmo Sakari**; **Kurnitski, Jarek** Renewable and sustainable energy reviews 2020 / art. 110299, 18 p : ill https://doi.org/10.1016/j.rser.2020.110299 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of COP estimation methods for large-scale heat pumps used in energy planning
Pieper, Henrik; Ommen, Torben; Kjær Jensen, Jonas Energy 2020 / art. 117994, 13 p. : ill https://doi.org/10.1016/j.energy.2020.117994

Decarbonisation of fossil-fuel CHP based district heating system = Fossiilkütustel põhineva CHP kaugküttesüsteemi dekarboniseerimine
Ruseljuk, Pavel 2023 https://doi.org/10.23658/taltech.62/2023 https://digikogu.taltech.ee/et/Item/84455e85-92bf-4aba-8623-86c0904a8747 https://www.ester.ee/record=b5640849*est

Decarbonization strategies of Helsinki metropolitan area district heat companies
Su, Yijie; **Hiltunen, Pauli**; **Syri, Sanna**; Khatiwada, Dilip Renewable and Sustainable Energy Reviews 2022 / Art. 112274 https://doi.org/10.1016/j.rser.2022.112274 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The effect of hydronic balancing on room temperature and heat pump efficiency of a building with underfloor heating
Thalfeldt, Martin; **Simson, Raimo**; **Kurnitski, Jarek** Energy procedia 2016 / p. 467-477 : ill
https://doi.org/10.1016/j.egypro.2016.09.178

Emissions and power demand in optimal energy retrofit scenarios of the Finnish building stock by 2050
Hirvonen, Janne; Heljo, Juhani; **Jokisalo, Juha**; Kurvinen, Antti; Saari, Arto; Niemelä, Tuomo; Sankelo, Paula; **Kosonen, Risto** Sustainable cities and society 2021 / art. 102896, 22 p. : ill https://doi.org/10.1016/j.scs.2021.102896 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Energiaarvestus toob selguse
Kurnitski, Jarek Äripäev 2019 / Sisustaja, lk. 30

Energy and indoor climate performance of heat pumps and dehumidification
Napp, Margus; **Kalamees, Targo** The Final Research Report of the project "Sustainable Management of Historic Rural Churches in the Baltic Sea Region (SMC)" 2013 / p. 102-125

Energy supply and storage optimization for mixed-type buildings
Rikkas, Elina Rebecka; Lahdelma, Risto Energy 2021 / art. 120839 https://doi.org/10.1016/j.energy.2021.120839

Ennustatakse soojuspumpade arvu kiiret kasvu
Risthein, Endel Elektriala 2004 / 5, lk. 28

Exhaust air heat pump heat recovery system for apartment buildings
Kõiv, Teet-Andrus; **Mikola, Alo**; **Kuusk, Kalle** Lecture Notes in Information Technology. Vol 13, 2012 International Conference on Power and Energy Systems (ICPES 2012), April 12-13, 2012, Hong Kong 2012 / p. 250-255 : ill

5th generation district heating and cooling (5GDHC) implementation potential in urban areas with existing district heating systems
Volkova, Anna; Pakere, Ieva; Murauskaite, Lina; Huang, Pei; **Lepiksaar, Kertu**; Zhang, Xinxing Energy reports 2022 / p. 10037-10047 https://doi.org/10.1016/j.egyr.2022.07.162 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Geothermal energy piles and borehole design with heat pump in a whole buildig simulation
Fadejev, Jevgeni Liginullenergiahooned täna ja homme : artiklite kogumik 2015 / p. 126-131 : ill

Geothermal energy piles and boreholes design with heat pump in a whole building simulation software

Fadejev, Jevgeni; **Kurnitski, Jarek** Energy and buildings 2015 / p. 23-34 : ill

Geothermal heat pump plant performance in a nearly zero-energy building
Fadejev, Jevgeni; **Simson, Raimo**; **Kurnitski, Jarek**; Kesti, Jyrki; Mononen, Tarmo; Lautso, Petteri Energy procedia 2016 / p. 489-502 : ill http://dx.doi.org/10.1016/j.egypro.2016.09.087

GIS-based approach to identifying potential heat sources for heat pumps and chillers providing district heating and cooling
Pieper, Henrik; **Lepiksaar, Kertu**; **Volkova, Anna** International Journal of Sustainable Energy Planning and Management 2022 / p. 29-44 https://doi.org/10.54337/ijsepm.7021 Journal metrics at Scopus Article at Scopus

Heat pump induction motor faults caused by soft starter topology — case study
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; Huynh, Van Khang 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 454-459 : ill https://doi.org/10.1109/PEMC48073.2021.9432506

Heat pump use in rural district heating networks in Estonia
Lepiksaar, Kertu; Kalme, Kiur; **Siirde, Andres**; **Volkova, Anna** Environmental and climate technologies 2021 / p. 786–802 https://doi.org/10.2478/rtuect-2021-0059 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Heat recovery from exhaust air as a thermal storage energy source for geothermal energy piles
Fadejev, Jevgeni; **Simson, Raimo**; **Kurnitski, Jarek**; Kesti, Jyrki Energy procedia 2016 / p. 478-488 : ill http://dx.doi.org/10.1016/j.egypro.2016.09.179

Heating system efficiency aspects in low-energy residential buildings = Küttesüsteemi efektiivsuse aspektid madalenergia eluhoonetes
Maivel, Mikk 2015

Heating system return temperature effect on heat pump performance
Maivel, Mikk; **Kurnitski, Jarek** Energy and buildings 2015 / p. 71-79 : ill

Heating system return temperature effect on heat pump performance
Maivel, Mikk; **Kurnitski, Jarek** 11th International Energy Agency Heat Pump Conference 2014 : 12-16 May 2014, Montréal (Québec), Canada 2014 / p. 1-8 : ill

Hybrid heat pump performance evaluation in different operation modes for single-family house
Tihana, Jelena; **Ali, Hesham**; Apse, Jekaterina; Jekabsons, Janis; Ivancovs, Dmitrijs; Gaujena, Baiba; **Dedov, Andrei** Energies 2023 / art. 7018 https://doi.org/10.3390/en16207018

Identification, implementation and simulation of ground source heat pump with ground temperature modeling
Köse, Ahmet; **Petlenkov, Eduard** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 163-166 : ill http://www.ester.ee/record=b2150914*est

Investigations of different control strategies for heat pump systems in a residential ZEB in the nordic climate [Online resource]
Clauss, John; Sartori, Igor; Alonso, Maria Justo; **Thalfeldt, Martin**; Georges, Laurent 12th IEA Heat Pump Conference : presentations, Wednesday, May 17 2017 / 0.1.3.3, 11 p. : ill https://hpc2017.org/wp-content/uploads/2017/06/o133.pdf

Kaevandusvesi soojuspumpade energiaallikana
Karu, Veiko Inseneeria 2012 / lk. 16-21 : ill

Kuidas säästa?
Thalfeldt, Martin Õhtuleht 2021 / Lk. 17 https://dea.digar.ee/article/ohtuleht/2021/10/26/13.3

Large-scale heat pumps for district heating systems in the Baltics : potential and impact
Volkova, Anna; Koduvere, Hardi; Pieper, Henrik Renewable and sustainable energy reviews 2022 / art. 112749 https://doi.org/10.1016/j.rser.2022.112749 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Method of linear approximation of COP for heat pumps and chillers based on thermodynamic modelling and off-design operation
Pieper, Henrik; **Krupenski, Igor**; Markussen, Wiebke Brix; Ommen, Torben; **Siirde, Andres**; **Volkova, Anna** Energy 2021 / art. 120743 : ill https://doi.org/10.1016/j.energy.2021.120743 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modeling an alternate operational ground source heat pump for combined space heating and domestic hot water power

sizing
Ahmed, Kaiser; **Fadejev, Jevgeni**; **Kurnitski, Jarek** Energies 2019 / art. 2120, 26 p. : ill https://doi.org/10.3390/en12112120 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modelling of wax actuators in underfloor heating manifolds
Kull, Tuule Mall; **Thalfeldt, Martin**; **Kurnitski, Jarek** E3S Web Conference : Cold Climate HVAC and Energy 2021 2021 / art. 11009, 8 p. : ill https://doi.org/10.1051/e3sconf/202124611009 Conference Proceedings at Scopus Article at Scopus Article at WOS

Mõõdab Tallinna Tehnikaülikool : [õhksoojuspumba tegelikust soojustegurist : Tõnu Kasikovi magistritöö põhjal]
Kodu & Ehitus : TM 2007 / lk. 28-29 : ill

Optimal design and dispatch of electrically driven heat pumps and chillers for a new development area
Pieper, Henrik; Ommen, Torben; Elmegaard, Brian; **Volkova, Anna**; Markussen, Wiebke Brix Environmental and Climate Technologies 2021 / p. 470−482 : ill https://doi.org/10.2478/rtuect-2020-0117 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimal utilization of rain-water heat in domestic water system of public building
Sergejeva, Monika; **Laanearu, Janek** CLIMA 2013 : 11th REHVA World Congress and the 8th International Conference on IAQVEC : June 16–19, 2013, Prague Congress Centre, Czech Republic : programme 2013 / p. 114

Optimized energy scheduling of residential DC building: Case of Nordic climate
Sidorova, Aleksandra; **Blinov, Andrei**; **Ahmadiahangar, Roya**; **Vinnikov, Dmitri**; **Võsa, Karl-Villem**; **Kurnitski, Jarek** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227437

Otsi säästu igalt rindelt: õige küttesüsteem toob kopsaka rahalise võidu
Raik, Jaan Martin Äripäev 2022 / Lk. 8-9 : fot Otsi säästu igalt rindelt: õige küttesüsteem toob kopsaka rahalise võidu https://www.ester.ee/record=b1071975*est

Overview of solar photovoltaic applications for district heating and cooling
Sukumaran, Sreenath; **Laht, Janika**; **Volkova, Anna** Environmental and Climate Technologies / p. 964-979 https://doi.org/10.2478/rtuect-2023-0070

Potential use of underground mine water in heat pumps
Karu, Veiko; **Robam, Karin**; **Valgma, Ingo** Estonia. Geographical studies. 11 : on the occasion of the 32nd International Geographical Congress / Estonian Geographical Society 2012 / p. 60-77 : ill

Problems with using the exhaust air heat pump for renovation of ventilation systems in old apartment buildings
Mikola, Alo; **Tennokese, Kaspar**; **Kõiv, Teet-Andrus** Danish journal of engineering and applied sciences 2015 / p. 44-55 : ill https://doi.org/10.6084/M9.FIGSHARE.1510922

Properties of thermal probes with heat pipe cooling system
Vrager, Allan; **Tiikma, Toomas** Advances in heat transfer engineering : proceedings of the Fourth Baltic Heat Transfer Conference : August 25-27, 2003, [Kaunas, Lithuania] 2003 / p. 587-594 : ill

Põrgukuumus: ekspert selgitab, kuidas ruume jahutada
Pärn, Joonas Õhtuleht 2021 / Lk. 2 https://dea.digar.ee/article/ohtuleht/2021/07/19/2.3

Residential buildings with heat pumps peak power reduction with high performance insulation
Sarevet, Henri; **Fadejev, Jevgeni**; **Thalfeldt, Martin**; **Kurnitski, Jarek** E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 12008, 5 p. : ill https://doi.org/10.1051/e3sconf/202017212008 Conference proceedings at Scopus Article at Scopus Article at WOS

A review on energy piles design, sizing and modelling
Fadejev, Jevgeni; **Simson, Raimo**; **Kurnitski, Jarek**; Haghighat, Fariborz Energy 2017 / p. 390-407 : ill https://doi.org/10.1016/j.energy.2017.01.097

Soojusgeneraatorid : õppematerjal
Paist, Aadu; **Poobus, Arvi** 2009 https://www.ester.ee/record=b2439255*est

Soojuspump igikeltsa õnneks ei tekita
Mäekalda, Oskar; **Kask, Ülo** Äripäev 2003 / 30. juuli, lk. 27

Soojuspump, mis see on
Kõiv, Teet-Andrus Ehituskaar 2001 / 7, lk. 16-17 : ill

Soojuspumpade füüsikalistest alustest
Mäeküla, Oskar Elektriala 2004 / 5, lk. 26-27 : ill

Soojuspumpade kasutamisest hoonete soojusvarustuses
Mäeküla, Oskar; **Paist, Aadu** Energeetika Infoleht / Majandusministeerium 2000 / 3, lk. 11-14 : ill

Soojuspumpade levikust ja kasutamisperspektiividest
Vares, Villu Energiavarustus ja -sääst 1990 / 1, lk. 12-15

System identification models and using neural networks for Ground Source Heat Pump with ground temperature modeling [Electronic resource]
Köse, Ahmet; **Petlenkov, Eduard** 2016 International Joint Conference on Neural Networks (IJCNN) : 24-29 July 2016, Vancouver, Canada 2016 / p. 2850-2855 : ill. [USB] https://doi.org/10.1109/IJCNN.2016.7727559

Taastuvad energiaallikad, turvas, soojuspumbad
Vares, Villu Eesti energeetika 2002 = Estonian energy 2002 2003 / lk. 41-47 : ill

A tabulated sizing method for the early stage design of geothermal energy piles including thermal storage
Ferrantelli, Andrea; **Fadejev, Jevgeni**; **Kurnitski, Jarek** Energy and buildings 2020 / art. 110178
https://doi.org/10.1016/j.enbuild.2020.110178 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Tasuvusaeg 6-8 aastat : [maasoojuspump]
Kõiv, Teet-Andrus Ärielu 2001 / 8, lk. 122

The application of the ground source and air-to-water heat pumps in cold climate areas
Tennokese, Kaspar; **Kõiv, Teet-Andrus**; **Mikola, Alo**; **Vares, Villu** Smart grid and renewable energy 2013 / p. 473-481 : ill

The efficiency analysis of the exhaust air heat pump system
Mikola, Alo; **Kõiv, Teet-Andrus** Engineering 2014 / p. 1037-1045 : ill

The impact of building renovation with heat pumps to competitiveness of district heating : Estonian district heating pricing system needs more flexibility
Reino, Arbo; **Härm, Mihkel**; **Hamburg, Arvi** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [6] p. : ill
http://dx.doi.org/10.1109/RTUCON.2017.8124791

The performance of the ventilation in Estonian retrofitted apartment buildings
Mikola, Alo; **Kõiv, Teet-Andrus**; **Tennokese, Kaspar** CLIMA 2016 - proceedings of the 12th REHVA World Congress. Vol. 5 2016 / [10] p. : ill http://vbn.aau.dk/files/233760270/paper_641.pdf

The preliminary research of sea water district heating and cooling for Tallinn coastal area
Hani, Allan; **Kõiv, Teet-Andrus** Smart grid and renewable energy 2012 / p. 246-252 : ill
https://www.scirp.org/pdf/sgre20120300011_19171139.pdf

The use of heat pump in the renovation of residential buildings
Kõiv, Teet-Andrus; **Mikola, Alo** Proceedings of the ICENS : Waseda University, Tokyo, Japan, 22-24 July 2015 2015 / p. 193-203

Thermal network simulation of heat pump aggregated energy flexibility
Plaum, Freddy 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 101-102 : ill https://www.ester.ee/record=b5504019*est

Underground water pools as heat source for heat pumps in abandoned oil shale mines in Estonia
Karu, Veiko 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. 130-134 : ill

Uuring: Balti riikide looduslikud ja tööstuslikud soojusallikad on alakasutatud
Mente et Manu 2021 / lk. 13 https://www.ester.ee/record=b1242496*est

Vaesust kartmata tuba soojaks: milline on kõige rahasäästlikum viis elektriga kütta?
Väli, Kristjan 2021 / Lk. 4-5 https://dea.digar.ee/publication/ohtuleht "Vaesust kartmata tuba soojaks: milline on kõige rahasäästlikum viis elektriga kütta?"

Vaesusut kartmata tuba soojaks: milline on kõige rahasäästlikum viis elektriga kütta?
Väli, Kristjan Õhtuleht.ee 2021 "Vaesusut kartmata tuba soojaks: milline on kõige rahasäästlikum viis elektriga kütta?"

Õhksoojuspump tuleks raha säästmise huvides infrapunapaneelide vastu välja vahetada – müüt või tõsilugu?
geenius.ee 2023 Õhksoojuspump tuleks raha säästmise huvides infrapunapaneelide vastu välja vahetada – müüt või tõsilugu?

Õhukonditsioneerid, vedelikjahutusseadmed ja soojuspumbad ruumide kütteks ja jahutuseks ning protsessi jahutid elektrikompressoritega. Osa 1, Terminid ja määratlused [Võrguteavik] = Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors. Part 1, Terms and definitions
2018 https://www.ester.ee/record=b5167911*est

Õhukonditsioneerid, vedelikjahutusseadmed ja soojuspumbad ruumide kütteks ja jahutuseks ning protsessi jahutid elektrikompressoritega. Osa 4, Nõuded [Võrguteavik] = Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors. Part 4, Requirements
2018 https://www.ester.ee/record=b5167941*est

Õhukonditsioneerid, vesijahutusseadmed ja soojuspumbad ruumide kütteks ja jahutuseks ning protsessi jahutid elektrikompressoritega. Osa 4, Nõuded = Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors. Part 4, Requirements
2023 https://www.ester.ee/record=b5578149*est