

Aasta parim tehasemaja : Timbeco toodetud moodullasteed Kiili Vallas

Ehitaja 2024 / lk. 32 : fot https://www.ester.ee/record=b1072123*est

Aasta tehasemaja : võistlustules kortermajad

Kurnitski, Jarek EhitusEST 2015 / lk. 46-47 : fot

Actual energy performance and indoor climate in Finnish NZEB daycare and school buildings

Ahmed, Kaiser; Hasu, Tero; **Kurnitski, Jarek** Journal of building engineering 2022 / art. 104759

<https://doi.org/10.1016/j.jobbe.2022.104759> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advances in European residential ventilation systems in nearly zero energy buildings

Kurnitski, Jarek 39th AIVC : Smart ventilation for buildings : 7th TightVent : 5th Venticool Conference, 18-19 September, 2018, Antibes Juan-Les-Pins, France : [poster abstracts] 2018 / 26 p. : ill <http://aivc2018conference.org/>

Ainult enda päikesepaneelidest jääb energiakindluse tagamiseks väheks

Raig, Tanel TööstusEST 2020 / lk. 50-53 : fot http://www.ester.ee/record=b4481084*est <https://toostusest.ee/uudis/2020/09/23/ainult-enda-paikesepaneelidest-jaab-energiakindluse-tagamiseks-vaheks/>

Air change efficiency of room ventilation units

Mikola, Alo; Rehand, Juhan; Kurnitski, Jarek E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 01017, 8 p <https://doi.org/10.1051/e3sconf/201911101017> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Air distribution and air handling unit configuration effects on energy performance in an air-heated ice rink arena

Taebnia, Mehdi; Toomla, Sander; Leppä, Lauri; **Kurnitski, Jarek** Energies 2019 / art. 693, 21 p. : ill <https://doi.org/10.3390/en12040693> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Air distribution and air handling unit configuration effects on energy performance in an air-heated ice rink arena

Taebnia, Mehdi; Toomla, Sander; Leppä, Lauri; **Kurnitski, Jarek** Energy and technical building systems - scientific and technological advances 2020 / p. 32-52 : ill <https://doi.org/10.3390/books978-3-03928-179-4>

Air leakages in air handling units with rotary heat exchanger : estimating extract air transfer to supply air flow

Simson, Raimo; Vösa, Karl-Villem; Kiil, Martin; Mikola, Alo; Kurnitski, Jarek Healthy Buildings America 2021, Honolulu, Hawaii, USA, January 18-20, 2022 : virtual format 2022 / 2 p. : ill https://hb2021-america.exordo.com/files/papers/309/final_draft/HB2021_AHU_air_leakages.pdf

Air pressure conditions in Finnish residences : [abstract] [Electronic resource]

Kalamees, Targo; Kurnitski, Jarek; Jokisalo, Juha; Eskola, Lari; Jokiranta, Kai; Vinha, Juha Proceedings of Clima 2007 WellBeing Indoors : 10-14 June 2007, Helsinki, Finland 2007 / p. 278 [CD-ROM]

Air pressure conditions in Finnish residences [Electronic resource]

Kalamees, Targo; Kurnitski, Jarek; Jokisalo, Juha; Eskola, Lari; Jokiranta, Kai; Vinha, Juha Proceedings of Clima 2007 WellBeing Indoors : 10-14 June 2007, Helsinki, Finland 2007 / [CD-ROM]

Airflow performance of ventilated sub flooring system

Kalamees, Targo; Kurnitski, Jarek; Helenius, Tapio Building and environment 2007 / 10, p. 3708-3716 : ill

Airtightness of residential buildings in Finland

Vinha, Juha; Manelius, Elina; **Kurnitski, Jarek** Building and environment 2015 / p. 128-140 : ill

Akadeemik : auku energeetikaalases hariduses lapime 30 aastat

Kurnitski, Jarek aripaev.ee 2022 [Akadeemik: auku energeetikaalases hariduses lapime 30 aastat](#)

Akadeemik Jarek Kurnitski tutvustab teekaarti, mis juhatas Tehnikaülikooli kadunud megavati otsingule

Kurnitski, Jarek digi.geenius.ee 2025 <https://digi.geenius.ee/blogi/teadus-ja-tulevik/akadeemik-jarek-kurnitski-tutvustab-teekaarti-mis-juhatas-tehnikaukooli-kadunud-megavati-otsingule/>

Akadeemik Jarek Kurnitski: tahame olla maailma tipus, aga piirdume siiski külma kliimaga ehk troopikasse ei trügi

Kurnitski, Jarek digi.geenius.ee 2024 [Akadeemik Jarek Kurnitski: tahame olla maailma tipus, aga piirdume siiski külma kliimaga ehk troopikasse ei trügi](#)

Akadeemik selgitab, kuidas käitada haiguspuhangu ajal ventilatsioonisüsteeme [Võrguväljaanne]

Kurnitski, Jarek novaator.err.ee 2020 / fot [Akadeemik selgitab, kuidas käitada haiguspuhangu ajal ventilatsioonisüsteeme](#)

Akadeemikud: V3 väljakutsete vanik [Võrguväljaanne]

Soomere, Tarmo; Kurnitski, Jarek; Randma-Liiv, Tiina; Vasar, Eero postimees.ee 2021

<https://leht.postimees.ee/7192307/akadeemikud-v3-valjakutsete-vanik>

Analüüs : Eesti hoonefondi kaasajastamine nõuab 24 miljardit eurot [Võrguväljaanne]

Oidermaa, Jaan-Juhan; Kurnitski, Jarek novaator.err.ee 2020 / fot [Analüüs: Eesti hoonefondi kaasajastamine nõuab 24 miljardit eurot](#)

Analyses of the extra cost of NZEB and low energy apartment buildings

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek World Sustainable Energy Days 2015 : Young Researchers' Conference : Energy Efficiency : 25-27 February 2015, Wels, Austria 2015

Analyzing the fulfillment of daylight and overheating requirements in residential and office buildings in Estonia

Sepulveda Luque, Abel; De Luca, Francesco; Thalfeldt, Martin; Kurnitski, Jarek Building and environment 2020 / art. 107036, 12 p <https://doi.org/10.1016/j.buildenv.2020.107036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analytical modelling and prediction formulas for domestic hot water consumption in residential Finnish apartments

Ferrantelli, Andrea; Ahmed, Kaiser; Pylsy, Petri; Kurnitski, Jarek Energy and buildings 2017 / p. 53-60 : ill <https://doi.org/10.1016/j.enbuild.2017.03.021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Annual performance analysis of heat emission in radiator and underfloor heating systems in the European reference room

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 04009, 8 p <https://doi.org/10.1051/e3sconf/201911104009> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Arvamusfestival - olla või mitte olla

Kurnitski, Jarek Mente et Manu 2017 / lk. 45 https://www.ttu.ee/public/m/mente-et-manu/MM_05_2017/mobile/index.html
https://artiklid.elnet.ee/record=b2827021*est

Arvamusfestival : töö liginullenergiahooneetega ei lõpe aastal 2020

Kiisler, Eva; Veske, Andres; Kurnitski, Jarek; Koit, Priit; Sillmann, Karin; Hani, Allan Ehitaja 2017 / lk. 17-18 : fot https://artiklid.elnet.ee/record=b2824285*est

Arvate, et teile müüdi A-energiaklassi korter? Mõõtku uuesti

Raig, Tanel arileht.delfi.ee 2023 [Arvate, et teile müüdi A-energiaklassi korter? Mõõtku uuesti](#)

Assessing the applicability of the European standard EN 17037:2018 for office spaces in a cold climate

Sepulveda Luque, Abel; De Luca, Francesco; Varjas, Toivo; Kurnitski, Jarek Building and environment 2022 / art. 109602 <https://doi.org/10.1016/j.buildenv.2022.109602> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessment of downward draught in high-glazing facades in cold climates – experimental and CFD study into draught control with a 21-type radiator

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 02002, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124602002> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Assessment of retrofit measures for industrial halls: energy efficiency and renovation budget estimation

Simson, Raimo; Fadejev, Jevgeni; Kurnitski, Jarek; Kesti, Jyrki; Lautso, Petteri Energy procedia 2016 / p. 124-133 : ill <https://doi.org/10.1016/j.egypro.2016.09.114> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Assessment of SARS-CoV-2 transmission in room with mixing ventilation using CO2 tracer gas technique

Simson, Raimo; Kiil, Martin; Võsa, Karl-Villem; Kesküll, Andre; Kurnitski, Jarek Healthy Buildings America 2021, Honolulu, Hawaii, USA, January 18-20, 2022 : virtual format 2022 / 2 p. : ill https://hb2021-america.exordo.com/files/papers/397/final_draft/HB2021_SARS-CoV-2_infection_risk.pdf

ASTRA toel Põhjamaade juhtivate tehnikaülikoolide tasemele

Auväart, Aivar Mente et Manu 2016 / lk. 26-29 : ill https://artiklid.elnet.ee/record=b2797136*est

Asuinrakennusten ilmanpitävyys, sisäilmasto ja energiatalous

Vinha, Juha; Korpi, Minna; Kalamees, Targo; Kurnitski, Jarek 2009

Asuntojen ilmanvaihto ja ilmanpitävyytutkimus - asukkaiden viihtyisyys pien- ja kerrostaloissa

Palonen, J.; Kalamees, Targo; Kurnitski, Jarek Sisäilmastoseminaari 2009 2009 / p. 137-142
<https://researchportal.tuni.fi/en/publications/asuntojen-ilmanvaihto-ja-ilmanpit%C3%A4vyystutkimus-asukkaiden-viihtyi>

Asunomessutalojen energiatehokkuus : Tampereen asunomessujen pientalojen energiatehokkuuden lähempi tarkastelu osoittaa yllättävän suurta vaihtelua

Kurnitski, Jarek TM rakennusmaailma 2012 / s. 30-36 : ill

Avaldati nakatumisriskil põhinev ventilatsiooni projekteerimisjuhis

Kurnitski, Jarek EhitusEST 2023 / lk. 38-39 : fot https://www.ester.ee/record=b4442657*est

Basic design principles of nZEB buildings in scoping and conceptual design

Voll, Hendrik; Kosonen, Risto; **Kurnitski, Jarek** Cost optimal and nearly zero-energy buildings (nZEB) : definitions, calculation principles and case studies 2013 / p. 103-134 : ill https://doi.org/10.1007/978-1-4471-5610-9_7 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Benchmarking the measured energy use of Nordic residential buildings and their Zero Energy-readiness

Ferrantelli, Andrea; **Thalfeldt, Martin**; **Kurnitski, Jarek** CLIMA 2022: the 14th REHVA HVAC World Congress, 22nd – 25th May in Rotterdam, The Netherlands 2022 / p. 1-8 <https://doi.org/10.34641/clima.2022.171>

Benchmarking Danish, Estonian and Finnish NZEB requirements with European Commission recommendations in residential and office buildings

Simson, Raimo; Thomsen, Kirsten Engelund; Wittchen, Kim Bjarne; **Kurnitski, Jarek** Energy and Buildings 2025 / art. 116086 <https://doi.org/10.1016/j.enbuild.2025.116086>

Bioreactivity, guttation and agents influencing surface tension of water emitted by actively growing indoor mould isolates

Andersson, Maria A.; Salo, Johanna; Kedves, Orsolya; Kredics, Laszlo; Druzhinina, Irina; **Kurnitski, Jarek**; Salonen, Heidi Microorganisms 2020 / art. 1940, 20 p <https://doi.org/10.3390/microorganisms8121940> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Building characteristics, indoor environmental quality, and mathematics achievement in Finnish elementary schools

Toyino, Oluyemi; Shaughnessy, Richard; Turunen, Mari; **Kurnitski, Jarek** Building and environment 2016 / p. 114-121 : ill <http://dx.doi.org/10.1016/j.buildenv.2016.04.030>

Building leakage, infiltration and energy performance analyses for Finnish detached houses

Jokisalo, Juha; **Kurnitski, Jarek**; Korpi, Minna; **Kalamees, Targo**; Vinha, Juha Building and environment 2009 / 2, p. 377-387 : ill

Building sustainability objective assessment in Estonian context and a comparative evaluation with LEED and BREEAM

Seinre, Erkki; **Kurnitski, Jarek**; **Voll, Hendrik** Building and environment 2014 / p. 110-120 : ill <https://doi.org/10.1016/j.buildenv.2014.08.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Calculation and compliance procedures of thermal bridges in energy calculations in various European countries

Kuusk, Kalle; **Kurnitski, Jarek**; **Kalamees, Targo** Energy procedia 2017 / p. 27-32 : ill <https://doi.org/10.1016/j.egypro.2017.09.626> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Causality and interpretation : integrating the technical and social aspects of design = Põhjuslikkus ja tõlgendamine : projekteerimise tehniliste ja sotsiaalsete aspektide sidumine

Pikas, Ergo 2019 https://www.ester.ee/record=b5234938*est <https://digi.lib.ttu.ee/i/?11966>

The circadian rhythm of total volatile organic compounds, carbon dioxide, and formaldehyde concentrations and the physical parameters in rooms with and without air-related irritation symptoms

Castagnoli, Emmanuelle; Mikkola, Raimo; **Kurnitski, Jarek**; Salonen, Heidi 14th International Conference on Indoor Air Quality and Climate (Indoor Air 2016) : Ghent, Belgium, 3-8 July 2016. Vol. 5 2016 / p. 2803-2809 : ill

CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019

2019 <https://www.e3s-conferences.org/articles/e3sconf/abs/2019/37/contents/contents.html>

CO2 jalajälje andmebaasil on veel arenguruumi

Vilk, Urve Ehitaja 2024 / lk. 32-34 : fot https://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2909894*est

A combined analytical model for increasing the accuracy of heat emission predictions in rooms heated by radiators

Võsa, Karl-Villem; **Ferrantelli, Andrea**; **Kurnitski, Jarek** Journal of building engineering 2019 / p. 291-300 <https://doi.org/10.1016/j.jobbe.2019.02.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A comparative analysis of NZEB energy performance requirements for residential buildings in Denmark, Estonia and Finland

Simson, Raimo; Thomsen, Kirsten Engelund; Wittchen, Kim Bjarne; **Kurnitski, Jarek** E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 14001, 12 p. : ill <https://doi.org/10.1051/e3sconf/202124614001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Comparative study of using periodic daily and long-term weather data for cooling system sizing and impact of thermal mass

Seyed Salehi, Seyed Shahabaldin; Kurnitski, Jarek; Thalfeldt, Martin E3S Web Conference: BuildSim Nordic 2022 2022 / art. 06002 <https://doi.org/10.1051/e3sconf/202236206002> [Conference proceedings at Scopus](#) [Article at Scopus](#)

A comparative study on cooling period thermal comfort assessment in modern open office landscape in Estonia

Kiil, Martin; Simson, Raimo; Thalfeldt, Martin; Kurnitski, Jarek Atmosphere 2020 / art. 127, 21 p. : ill

<https://doi.org/10.3390/atmos11020127> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of energy performance requirements in selected countries

Kurnitski, Jarek; Grönlund, Victoria; Reinikainen, Erja Proceedings of CLIMA 2013 : 11th REHVA World Congress and the 8th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, Prague 16th-19th June, 2013 2013 / [10] p. : ill

A comparison of measured and simulated air pressure conditions of a detached house in a cold climate

Jokisalo, Juha; Kalamees, Targo; Kurnitski, Jarek; Eskola, Lari; Jokiranta, Kai; Vinha, Juha Journal of building physics 2008 / p. 67-89 : ill <https://doi.org/10.1177/1744259108091901>

A comparison of measured and simulated air pressure conditions of a detached house in a cold climate [Electronic resource]

Jokisalo, Juha; Kalamees, Targo; Kurnitski, Jarek; Eskola, Lari; Jokiranta, Kai Building Enclosure Science & Technology : BEST 1 Conference : Minneapolis, USA, 10-12.06.2008 2008 / ? p. [CD-ROM]

Comparison of simplified and detailed window models in energy simulations

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik Proceedings of REHVA Annual Conference "Advanced HVAC and Natural Gas Technologies" : Riga, Latvia, May 6-9, 2015 2015 / p. 26-31 : ill

Comparison of simplified and detailed window models in office building energy simulations

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik Energy procedia 2015 / p. 2076-2081 : ill

<https://doi.org/10.1016/j.egypro.2015.11.235> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Complexity in designing energy efficient buildings : towards understanding decision networks in design

Pikas, Ergo; Koskela, Lauri; Thalfeldt, Martin; Dave, Bhargav; Kurnitski, Jarek Global Knowledge - Global Solutions : 23rd Annual Conference of the International Group for Lean Construction : Perth, Australia, July 29-31, 2015 : proceedings of IGLC23 2015 / p. 213-222 : ill

Compliance with summer thermal comfort requirements in apartment buildings

Simson, Raimo; Kurnitski, Jarek; Maivel, Mikk; Kalamees, Targo Proceedings of REHVA Annual Conference "Advanced HVAC and Natural Gas Technologies" : Riga, Latvia, May 6-9, 2015 2015 / p. 64-69 : ill

Comprehensive workflow for documenting corporate commuting emissions : a university case study with two alternative approaches

Jiang, Qidi; Kurnitski, Jarek Proceedings of the 2nd international conference on advanced civil engineering and smart structures 2024 / p. 68-77 https://doi.org/10.1007/978-981-97-1514-5_8 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Control dynamics and parameters for low energy heating applications = Juhtimise dünaamika ja parameetrid madalenergia küttesüsteemides

Parts, Tuule Mall 2023 <https://doi.org/10.23658/taltech.50/2023> <https://digikogu.taltech.ee/et/Item/85469015-8f1c-450f-a609-73a70a255bc6> https://www.ester.ee/record=b5638401*est

Cooling thermal comfort and efficiency parameters of ceiling panels, underfloor cooling, fan-assisted radiators, and fan coil

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek Energies 2022 / art. 4156 <https://doi.org/10.3390/en15114156> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Coronavirus disease 2019 and airborne transmission : science rejected, lives lost. Can society do better?

Morawska, Lidia; Bahnfleth, William; Bluysen, Philomena M.; Boerstra, Atze; Buonanno, Giorgio; Dancer, Stephanie J.; Floto, Andres; Franchimon, Francesco; Haworth, Charles; Hogeling, Jaap; Isaxon, Christina; Jimenez, Jose L.; Kurnitski, Jarek Clinical infectious diseases 2023 / p. 1854 - 1859 <https://doi.org/10.1093/cid/ciad068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost optimal and nearly zero energy building solutions for office buildings

Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek Energy and buildings 2014 / p. 30-42 : ill <https://doi.org/10.1016/j.enbuild.2014.01.039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost optimal and nearly zero energy performance requirements for buildings in Estonia

Kurnitski, Jarek; Saari, Arto; **Kalamees, Targo**; Vuolle, Mika; Niemelä, Jouko; **Tark, Teet** Estonian journal of engineering 2013 / p. 183-202 : ill https://artiklid.einet.ee/record=b2632889*est <https://doi.org/10.3176/eng.2013.3.02> [Article at Scopus](#)

Cost optimal and nearly zero-energy buildings (nZEB) : definitions, calculation principles and case studies
2013

Cost optimal energy performance

Kurnitski, Jarek Cost optimal and nearly zero-energy buildings (nZEB) : definitions, calculation principles and case studies 2013 / p. 47-56 : ill https://doi.org/10.1007/978-1-4471-5610-9_4 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Cost optimal energy savings and scenarios for ENMAK 2030+ energy action plan

Kurnitski, Jarek; Kuusk, Kalle Liginullenergiahooned täna ja homme : artiklite kogumik 2015 / p. 63-73 : ill

Cost-benefit analysis of nZEB energy efficiency strategies with on-site photovoltaic generation

Pikas, Ergo; **Kurnitski, Jarek**; **Thalfeldt, Martin**; Koskela, Lauri Energy 2017 / p. 291-301 : ill
<https://doi.org/10.1016/j.energy.2017.03.158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-effective energy-efficient building retrofitting : materials, technologies, optimization and case studies

2017 http://www.eston.ee/record=b4674305*est <https://www.sciencedirect.com/science/book/9780081011287>

Covid-19 leviku tõkestamisel võib mängida võtmerolli hea ventilatsioon [Võrguväljaanne]

Kurnitski, Jarek novaator.err.ee 2020 / fot [Covid-19 leviku tõkestamisel võib mängida võtmerolli hea ventilatsioon](#)

CPT, CPTu and DCPT methods for predicting the ultimate bearing capacity of cast in situ displacement piles in silty soils

Leetsaar, Lehar; Korkiala-Tanttu, Leena; **Kurnitski, Jarek** Geotechnical and Geological Engineering 2022 / p. 631-652 : ill
<https://doi.org/10.1007/s10706-022-02292-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Critical discussion on the challenges of integrating heat pumps in hydronic systems in existing buildings

Cholewa, Tomasz; Bejan, Andrei-Stelian; Miara, Marek; Schauer, Christian; Kosonen, Risto; Borodinecs, Anatolijs; **Bogdanovičs, Raimonds**; Amanowicz, Łukasz; Vering, Christian; Siuta-Olcha, Alicja; **Kurnitski, Jarek** Energy 2025 / art. 136158
<https://doi.org/10.1016/j.energy.2025.136158>

Danish, Estonian and Finnish NZEB requirements comparison with European Commission recommendations for office buildings in Nordic and Oceanic climates

Simson, Raimo; **Arumägi, Endrik**; Thomsen, Kirsten Engelund; Wittchen, Kim Bjarne; **Kurnitski, Jarek** E3S Web Conferences : The 16th ROOMVENT Conference (ROOMVENT 2022) 2022 / art. 01017 <https://doi.org/10.1051/e3sconf/202235601017> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Data for occupancy internal heat gain calculation in main building categories

Ahmed, Kaiser; **Kurnitski, Jarek**; Olesen, Bjarne Data in brief 2017 / p. 1030-1034 : tab <https://doi.org/10.1016/j.dib.2017.10.036>

Data-driven baseline generation for post-retrofit energy saving assessment, a comparison of statistical and machine learning methods

Kuivjõgi, Helena; **Vasman, Sofia**; **Petlenkov, Eduard**; **Thalfeldt, Martin**; **Kurnitski, Jarek** Journal of building engineering 2024 / art. 111016 <https://doi.org/10.1016/j.jobbe.2024.111016>

Daylight and overheating prediction formulas for building design in a cold climate

Sepulveda Luque, Abel; **De Luca, Francesco**; **Kurnitski, Jarek** Journal of building engineering 2022 / art. 103532, 15 p. : ill
<https://doi.org/10.1016/j.jobbe.2021.103532> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Daylighting and energy performance design for single floor commercial hall buildings

De Luca, Francesco; **Simson, Raimo**; **Voll, Hendrik**; **Kurnitski, Jarek** Management of environmental quality : an international journal 2018 / p. 722-739 : ill <https://doi.org/10.1108/MEQ-10-2017-0110> [Journal metrics at Scopus](#) [Article at Scopus](#)

DC-ready photovoltaic solar converter

Matiushkin, Oleksandr; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Kurnitski, Jarek** PCIM Europe 2023 : Conference proceedings 2023 / 7 p <https://doi.org/10.30420/566091094> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Demand controlled ventilation indoor climate and energy performance in a high performance building with air flow rate controlled chilled beams

Ahmed, Kaiser; **Kurnitski, Jarek**; Sormunen, Piia Energy and buildings 2015 / p. 115-126 : ill
<https://doi.org/10.1016/j.enbuild.2015.09.052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and development of solid state circuit breaker with residual current protection for residential prosumer DC microgrids

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri; Kurnitski, Jarek Proceedings of the Estonian Academy of Sciences 2025 / p. 281-290 <https://doi.org/10.3176/proc.2025.2S.02>

Design criteria for outdoor air intakes and exhaust air outlets located on an external wall

Palmiste, Ülar; Kurnitski, Jarek; Voll, Hendrik E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 9008, 8 p. : ill <https://doi.org/10.1051/e3sconf/202017209008> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Detailed and simplified window model and opening effects on optimal window size and heating need

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik Energy and buildings 2016 / p. 242-251 : ill <https://doi.org/10.1016/j.enbuild.2016.06.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Detection of Chaetomium globosum, Ch. cochliodes and Ch. rectangulare during the Diversity Tracking of Mycotoxin-Producing Chaetomium-like Isolates Obtained in Buildings in Finland

Salo, Marja Johanna; Kedves, Orsolya; Mikkola, Raimo; Kredics, Laszlo; Andersson, Maria A.; **Kurnitski, Jarek**; Salonen, Heidi Toxins 2020 / art. 443, 22 p. <https://doi.org/10.3390/toxins12070443> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Developing energy calculation methodology and calculation tool validations : Application in air-heated ice rink arenas

Taebnia, Mehdi; Toomla, Sander; Leppä, Lauri; **Kurnitski, Jarek** Energy and buildings 2020 / art. 110389, 19 p. : ill <https://doi.org/10.1016/j.enbuild.2020.110389> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of a reduced order model of solar heat gains prediction

Tamm, Meril; Cid, Jordi Macia; Paramio, Roser Capdevila; Baulenas, Joan Farnos; **Thalfeldt, Martin; Kurnitski, Jarek** Energies 2020 / art. 6316, 17 p. : ill <https://doi.org/10.3390/en13236316> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dismantling myths on the airborne transmission of severe acute respiratory syndrome coronavirus (SARS-CoV-2)

Tang, J.W.; Bahnfleth, William; Bluysen, P.M.; Buonanno, G.; Jimenez, J.L.; **Kurnitski, Jarek** Journal of hospital infection 2021 / p. 89-96 <https://doi.org/10.1016/j.jhin.2020.12.022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The distribution of the air leakage places and thermal bridges in Finnish detached houses and apartment buildings

Kalamees, Targo; Korpi, Minna; Eskola, Lari; **Kurnitski, Jarek**; Vinha, Juha Proceedings of the 8th Symposium on Building Physics in the Nordic Countries : Copenhagen, Denmark, June 16-18, 2008. 3 2008 / p. 1095-1102 https://www.academia.edu/90749708/The_distribution_of_the_air_leakage_places_and_thermal_bridges_in_Finnish_detached_houses_and_apartment_buildings

The distribution of the air leakage places and thermal bridges of different types of detached houses and apartment buildings

Kalamees, Targo; Kurnitski, Jarek; Korpi, Minna; Vinha, Juha 2. Europäisches BlowerDoor-Symposium Dichte Gebäudehülle Thermografie und Wohnungslüftung = 2nd European BlowerDoor-Symposium Tight Building Envelope, Thermography and Dwelling Ventilation : Kassel, Germany, March 16 and 17 2007 2007 / p. 71-81 https://trepo.tuni.fi/bitstream/handle/10024/128669/Kalamees_The_distribution_of_the_air_leakage_places_and_thermal_bridges_in_Finnish_detached_houses_and_apartment_buildings.pdf?sequence=1

Do national energy performance requirements promote or compromise good indoor climate?

Kurnitski, Jarek Proceedings of Healthy Buildings 2012 : Brisbane, Australia 8-12 July 2012 2012 / [6] p. : ill https://www.researchgate.net/publication/287056294_Do_national_energy_performance_requirements_promote_or_compromise_good_indoor_climate

Domestic hot water profiles for energy calculation in Finnish residential buildings

Ahmed, Kaiser; Pylsy, Petri; **Kurnitski, Jarek** World Sustainable Energy Days 2015, Young researchers conference : energy efficiency : February 25-26, 2015, Wels, Austria 2015 / [8] p. : ill

Draught and Infection Risk Control in Modern Educational and Office Spaces = Tõmbus- ja nakkusriski ohjamine kaasaegsetel haridus- ja büroopindadel

Kiil, Martin 2025 https://www.ester.ee/record=b5754732*est <https://digikogu.taltech.ee/et/Item/e12facc0-069c-455a-b91b-ed472db43f80> <https://doi.org/10.23658/taltech.50/2025>

Dynamic heating control measured and simulated effects on power reduction, energy and indoor air temperature in an old apartment building with district heating

Hajian, Hatem; Ahmed, Kaiser; **Kurnitski, Jarek** Energy and buildings 2022 / art. 112174 <https://doi.org/10.1016/j.enbuild.2022.112174> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Early stage CAD-compliant energy performance assessment method

Kurnitski, Jarek; Kalamees, Targo; Tark, Teet Seventh International Cold Climate HVAC Conference : November 12-14, 2012, Calgary, Canada 2012 / p. 191-198 : ill https://www.researchgate.net/publication/289191364_Early_stage_CAD-compliant_energy_performance_assessment_method

Early stage CAD-compliant energy performance assessment method

Kurnitski, Jarek; Kalamees, Targo; Tark, Teet Journal of energy and power engineering 2013 / p. 1662-1668 : ill

Editorial

Kurnitski, Jarek Energy procedia 2016 / p. 1-4 : ill <https://doi.org/10.1016/j.egypro.2016.09.088> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Editorial - IEA-ECES Annex 31 special issue on thermal energy storage

Kurnitski, Jarek; Haghighat, Fariborz; Mirzaei, Parham A. Energy and buildings 2015 / p. 1-2

<https://doi.org/10.1016/j.enbuild.2015.08.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

EEMontti – Lämmityskulut puoleen : energiaremontilla innovatiivisia ratkaisuja sähkölämmitteisten pientalojen energiatehokkuuden ja ilmanvaihdon parantamiseksi

Häkämies, S.; Kurnitski, Jarek Sisäilmastoseminaari 2012 : Espoo 14.3.2012 : SIY Raportti 30 2012 / s. 275–280

Eesti hooned liiguvad heitevabade standardite suunas

ehitusuudised.ee 2025 <https://www.ehitusuudised.ee/uudised/2025/06/11/eesti-hooned-liiguvad-heitevabade-standardite-suunas>

Eesti kodusid kimbutab liiga kõrge CO2 tase

Piir, Rait novaator.err.ee 2024 [Eesti kodusid kimbutab liiga kõrge CO2 tase](#)

Eesti maju gaasiplahvatus rängalt ei kahjustaks

Kurnitski, Jarek Postimees 2017 / lk. 6 <https://www.postimees.ee/4309273/eesti-kortermaju-gaasiplahvatus-rangalt-ei-kahjustaks>

Eesti Nokia leitud : poole energiatarbimisest saaks maailmas kokku hoida

Berendson, Risto; Kurnitski, Jarek Õhtuleht 2019 / lk. 4-5 : portr <https://www.oh tuleht.ee/982581/eesti-nokia-leitud-poole-energiatarbimisest-saaks-maailmas-kokku-hoida> https://www.ester.ee/record=b1408161*est

Eesti piirialale punkrite ehitamiseks kulub viie korterelamu jagu materjali = Bunkers development to require enough material to build five blocks of flats

Rohemäe, Maria-Ann err.ee 2024 [Eesti piirialale punkrite ehitamiseks kulub viie korterelamu jagu materjali Bunkers development to require enough material to build five blocks of flats](#) [Эксперты рассказали, как будут выглядеть бункеры в приграничных районах Эстонии](#)

Eesti teadlased töötasid välja meetodi energiamärgise koheseks määramiseks

director.ee 2023 [Eesti teadlased töötasid välja meetodi energiamärgise koheseks määramiseks](#) [Eestis töötati välja uudne energiamärgise määramise lahendus](#) [Eestis töötati välja uudne energiamärgise määramise lahendus](#)

Eesti teadlased töötasid välja meetodi kohese energiamärgise määramiseks

jarvateataja.postimees.ee 2023 [Eesti teadlased töötasid välja meetodi kohese energiamärgise määramiseks](#)

Eesti tudengid saavutasid Saint-Gobaini arhitektuurivõistlusel kõrge koha

Ehitaja 2025 / lk. 13 https://www.ester.ee/record=b1072123*est

Eesti Vabariigi 2018. aasta teaduspreemia laureaadid TTÜst

Vähi, Kersti; Buldas, Ahto; Kotta, Ülle; Kurnitski, Jarek; Raudla, Ringa Mente et Manu 2018 / lk. 26-27 : portr

<https://www.ttu.ee/ttu-uudised/ajaleht-mente-et-manu/mente-et-manu/> http://www.ester.ee/record=b1242496*est https://artiklid.elnet.ee/record=b2836028*est

Eestis kehtima hakanud liginullenergianõuete võrdlus naaberriikidega

Kurnitski, Jarek Eesti Ehituskonsultatsiooniettevõtete Liit, EKEL : [aastaraamat] = Estonian Association of Architectural and Consulting Engineering Companies, EAACEC 2020 / lk. 23-26 : ill, fot https://ekel.ee/images/files/failid/EKEL_AASTARAAMAT_2020.pdf https://www.ester.ee/record=b1222961*est

Eestis loodud nutiventilatsiooniseade toob leevendust kehvale toaõhule : [ka J. Kurnitski komentaaridega]

Linnaleht 2018 / lk. 17 : fot

Eestis on veel 14 000 renoveerimist vajavat kortermaja

Kald, Annika Äripäev 2020 / Lk. 14 <https://dea.digar.ee/publication/aripaev>

Eestis töötati välja uudne energiamärgise määramise lahendus

Ehitaja 2023 / lk. 34 : fot https://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2904595*est

The effect of exhaust air heat pump on district heat energy use and return temperature

Thalfeldt, Martin; Kurnitski, Jarek; Latõšov, Eduard CLIMA 2016 - proceedings of the 12th REHVA World Congress. Vol. 3 2016

/ [10] p. : ill http://vbn.aau.dk/files/233716910/paper_343.pdf

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> Conference Proceedings at Scopus Article at Scopus Article at WOS

Effect of Infector's location and occupants' activity level on airborne spread in a gym – an experimental and CFD study

Ejaz, Muhammad Farhan; Kilpeläinen, Simo; Mikola, Alo; Kiil, Martin; Kurnitski, Jarek; Kosonen, Risto E3S Web of Conferences :

Roomvent Conference 2024 2024 / 5 p <https://invitepeople.com/public/events/fe41371a0b/pages/ed19d3ae89>

The effect of positive pressure on indoor air quality in a deeply renovated school building - a case study

Vornanen-Winqvist, Camilla; Toomla, Sander; Ahmed, Kaiser; Kurnitski, Jarek; Mikkola, Raimo; Salonen, Heidi Energy procedia

2017 / p. 165-170 : ill <https://doi.org/10.1016/j.egypro.2017.09.679> Conference proceedings at Scopus Article at Scopus Article at WOS

The effects of local factors on the concentrations and flora of viable fungi in school buildings

Salonen, Heidi; Castagnoli, Emmanuelle; Vornanen-Winqvist, Camilla; Kurnitski, Jarek World Academy of Science, Engineering

and Technology. International journal of civil and environmental engineering 2017 / p. 592-595 <http://scholar.waset.org/1307-6892/10007020>

Effects of ventilation improvement on measured and perceived indoor air quality in a school building with a hybrid ventilation system

Vornanen-Winqvist, Camilla; Salonen, Heidi; Kurnitski, Jarek International journal of environmental research and public health 2018 /

art. 1414, 18 p. : ill <https://doi.org/10.3390/ijerph15071414> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The effects of ventilation systems and building fabric on the stability of indoor temperature and humidity in Finnish detached houses

Kalamees, Targo; Korpi, Minna; Vinha, Juha; Kurnitski, Jarek Building and environment 2009 / 8, p. 1643-1650 : ill

Ehitus on muutumas digitaalseks

Hint, Siie; Kurnitski, Jarek Eesti Päevaleht 2019 / Oma Äri, lk. 6

Ehituse asjatundja: Eramu energiaklassi annab tõsta vähese vaevaga

Laks, Liina Pärnu Postimees 2023 / Lk. 6 <https://dea.digar.ee/article/parnupostimees/2023/04/28/9.1>

Ehituse Mäemaja - ülikooli uusim, tõhusaim ja ägedaim hoone

Kurnitski, Jarek Mente et Manu 2021 / lk. 22-23 : dot [Mente et Manu 2/2021](https://www.menteetmanu.ee/2021/02/)

Ehituse teekaart 2040 [Võrguväljaanne]

Freimann, Maria; Ilomets, Simo; Karafin, Miina; Kurnitski, Jarek 2023 https://rohetiiger.ee/wp-content/uploads/2023/04/EHITUSE-TEEKAART-2040-v1.pdf?fbclid=IwAR1_jlRZmtPtKibMUwLul_ru7btzHhmt2h2qceafhQJ6SXQtAgnPcXJvWs

Ehitusinseneeria : iga õppija eest tuleb võidelda

Leet, Lauri; Vilks, Urve; Kurnitski, Jarek; Kiisa, Martti Äripäev 2019 / Ehitusuudised, lk. 6

Ehitusinseneeria: iga õppija eest tuleb võidelda

Leet, Lauri; Vilks, Urve; Kurnitski, Jarek Äripäev 2019 / Ehitusuudised, lk. 6

Ehitusprofessorid: Praeguse tempoga muudame oma hooneid energiatõhusaks sada aastat

Jarne, Aivar Pealinn 2023 / Lk. 11 https://www.ester.ee/record=b1287116*est Ehitusprofessorid: Praeguse tempoga muudame oma hooneid energiatõhusaks sada aastat

Ehitusteadlased appi rahvusraamatukogu rekonstrueerima

Kurnitski, Jarek Äripäev 2019 / Ehitusuudised, lk. 8

Ehitusteaduskonnast ehituse ja arhitektuuri instituudiks

Kurnitski, Jarek 100 aastat TTÜ ehitusinseneer 2018 / lk. 374-383 : portr

Ehitusvaldkonna mõttetalgud : ehitussektor on majanduskliima lakmuspaber : [sõna võtsid TTÜst Reet Linnas, Roode Liias, Jarek Kurnitski jt.]

Kiisler, Eva; Linnas, Reet; Liias, Roode; Kurnitski, Jarek Ehitaja 2013 / lk. 10-12 https://artiklid.elnet.ee/record=b2617185*est

Eksperdid: keskkonnasäästlik ehitamine tuleb teha inimestele elamisväärses

Kurnitski, Jarek; Loka, Priidu delfi.ee 2024 [Eksperdid: keskkonnasäästlik ehitamine tuleb teha inimestele elamisväärses](https://delfi.ee/2024/04/01/eksperdid-keskkonnasaaustlik-ehitamine-tuleb-teha-inimestele-elamisvaarseks)

Eksperdid: kliimaseaduse väljatöötamine käib kiirrongi kiirusega, aga see ei tohi muuta kinnisvara inimestele kättesaamatult kalliks

Kurnitski, Jarek; Loka, Priidu postimees.ee 2024 [Eksperdid: kliimaseaduse väljatöötamine käib kiirrongi kiirusega, aga see ei tohi muuta kinnisvara inimestele kättesaamatult kalliks](#)

Ekspert: korralikult renoveerides püsivad magalarajoonide hooned veel 100 aastat

Sildvee, Reimo err.ee 2023 [Ekspert: korralikult renoveerides püsivad magalarajoonide hooned veel 100 aastat](#)

Elamuehituses tuleb üha enam arvestada kuumade suvedega

novaator.err.ee 2023 [Elamuehituses tuleb üha enam arvestada kuumade suvedega](#)

Electric lighting predictions in the energy calculation methods

De Luca, Francesco; Simson, Raimo; Voll, Hendrik; Kurnitski, Jarek Improving energy efficiency in commercial buildings and smart communities 2020 / p. 123-141 https://doi.org/10.1007/978-3-030-31459-0_9

E-luku ohjaa rakentamista

Kurnitski, Jarek Kuntatekniikka 2012 / s. 28-29

Emissions of DEHP-free PVC flooring

Castagnoli, Emmanuelle; Backlund, Peter; Talvitie, Oskari; **Kurnitski, Jarek** Indoor air 2019 / p. 903-912 : ill <https://doi.org/10.1111/ina.12591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energiaarvestus toob selguse

Kurnitski, Jarek Äripäev 2019 / Sisustaja, lk. 30

Energiamääräykset 2012 : opas uudisrakennusten energiamääräysten soveltamiseen

Kurnitski, Jarek 2012

Energiaühendus eramu 2013 : [ka TTÜ Ehitiste projekteerimise instituudi professorite Jarek Kurnitski ja Targo Kalamehe kommentaaridega]

Kurnitski, Jarek; Kalamees, Targo Meie Kodu 2013 / lk. 33-41 : fot

Energiaühendus - paradigma muutus ehituses

Kurnitski, Jarek Horisont 2019 / lk. 20-26 : fot http://www.ester.ee/record=b1072243*est

Energiaühendus ja puitmajad

Kurnitski, Jarek Eesti Puitmajaleht 2014 / lk. 4

Energiaühenduse arengud ja uued uuringud

Kurnitski, Jarek EhitusEST 2016 / lk. 22-26 : ill http://www.ester.ee/record=b4442657*est https://artiklid.elnet.ee/record=b2801974*est

Energy analysis in ice hockey arenas and analytical formula for the temperature profile in the ice pad with transient boundary conditions

Ferrantelli, Andrea; Viljanen, Klaus; Kurnitski, Jarek Advances in building energy research 2021 / p. 499-522 : ill <https://doi.org/10.1080/17512549.2019.1615549> [Journal metrics at Scopus](#) [Article at Scopus](#)

Energy and buildings. Vol. 106, SI, IEA-ECES Annex 31 special issue on thermal energy storage

2015

Energy and daylighting performance design of skylights and clerestories in a large hall retail building

De Luca, Francesco; Simson, Raimo; Kurnitski, Jarek CLIMA 2016 - proceedings of the 12th REHVA World Congress. Vol. 2 2016 / [10] p. : ill http://vbn.aau.dk/files/233715392/paper_655.pdf

Energy and investment intensity of integrated renovation and 2030 cost optimal savings

Kurnitski, Jarek; Kuusk, Kalle; Tark, Teet; Uutar, Aivar; Kalamees, Targo; Pikas, Ergo Energy and buildings 2014 / p. 51-59 : ill <https://doi.org/10.1016/j.enbuild.2014.01.044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy and technical building systems - scientific and technological advances

2020 <https://doi.org/10.3390/books978-3-03928-179-4>

Energy consumption characteristics based on monitored data : a school case study

Vassiljeva, Kristina; Matson, Margarita; Petlenkov, Eduard; Belikov, Juri; Thalfeldt, Martin; Kurnitski, Jarek CLIMA 2022 : REHVA 14th HVAC World Congress 22nd-25th May in Rotterdam, The Netherlands 2022 / 5 p. : ill <https://doi.org/10.34641/clima.2022.274>

Energy efficiency measures : in different climates and in architectural competitions

Mustakallio, Panu; **Kurnitski, Jarek** Cost optimal and nearly zero-energy buildings (nZEB) : definitions, calculation principles and case studies 2013 / p. 79-102 : ill

Energy management implementation approach for droop-controlled residential DC nanogrids

Hasan, Sayeed; Chub, Andrii; Yadav, Neelesh; Blinov, Andrei; Kurnitski, Jarek; Vinnikov, Dmitri 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 5 p <https://doi.org/10.1109/ICDCM63994.2025.11144665>

Energy performance and indoor climate analysis in buildings

2019 <https://www.mdpi.com/books/pdfview/book/1828> <https://doi.org/10.3390/books978-3-03921-380-1>

Energy performance certificate classes rating methods tested with data : how does the application of minimum energy performance standards to worst-performing buildings affect renovation rates, costs, emissions, energy consumption?

Ferrantelli, Andrea; Kurnitski, Jarek Energies 2022 / art. 7552 <https://doi.org/10.3390/en15207552> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metric at WOS](#) [Article at WOS](#)

Energy performance of radiators with parallel and serial connected panels

Maivel, Mikk; Konzelmann, Martin; Kurnitski, Jarek Energy and buildings 2015 / p. 745-753 : ill
<https://doi.org/10.1016/j.enbuild.2014.10.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy performance of radiators with parallel and serial connected panels

Maivel, Mikk; Konzelmann, Martin; Kurnitski, Jarek The REHVA European HVAC journal 2014 / p. 18-21 : ill

Energy performance, indoor air quality and comfort in new nearly zero energy day-care centres in northern climatic conditions

Kuusk, Kalle; Kaiser, Ahmed; Lolli, Nicola; Johansson, Jan; Kouvola, Tero Hasu; Gunnarshaug Lien, Anne; Arumägi, Endrik; Kalbe, Kristo; Hallik, Jaanus; Kurnitski, Jarek; Kalamees, Targo Journal of sustainable architecture and civil engineering 2019 / p. 7-16 <https://doi.org/10.5755/j01.sace.24.1.23228>

Energy pile and heat pump modeling in whole building simulation model

Fadejev, Jevgeni; Kurnitski, Jarek Proceedings of the 2014 Building Simulation and Optimization Conference" : 23-24 June 2014, UCL, London, UK 2014 / [7] p. : ill

Energy pile field simulation in large buildings: validation of surface boundary assumptions

Ferrantelli, Andrea; Fadejev, Jevgeni; Kurnitski, Jarek Energies 2019 / art. 770, 20 p. : ill <https://doi.org/10.3390/en12050770>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy pile field simulation in large buildings: validation of surface boundary assumptions

Ferrantelli, Andrea; Fadejev, Jevgeni; Kurnitski, Jarek Energy and technical building systems - scientific and technological advances 2020 / p. 12-31 : ill <https://doi.org/10.3390/books978-3-03928-179-4>

Energy saving potential with smart thermostats in low-energy homes in cold climate

Kull, Tuule Mall; Penu, Karl-Rihard; Thalfeldt, Martin; Kurnitski, Jarek E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 09009, 7 p. : ill
<https://doi.org/10.1051/e3sconf/202017209009> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Estimating the impact of indoor relative humidity on SARS-CoV-2 airborne transmission risk using a new modification of the Wells-Riley model

Aganovic, Amar; Bi, Yang; Cao, Guangyu; Drangsholt, Finn; Kurnitski, Jarek; Wargocki, Pawel Building and environment 2021 / art. 108278, 14 p. : ill <https://doi.org/10.1016/j.buildenv.2021.108278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimating time constants for underfloor heating control

Kull, Tuule Mall; Thalfeldt, Martin; Kurnitski, Jarek Journal of physics : conference series 2019 / art. 012121, 6 p. : ill
<https://doi.org/10.1088/1742-6596/1343/1/012121> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Estimation of energy-saving potential and indoor thermal comfort by the central control of the heating curve in old apartment buildings

Hajian, Hatem; Ahmed, Kaiser; Kurnitski, Jarek E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 09002, 10 p. : ill <https://doi.org/10.1051/e3sconf/202124609002> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Estonian climate analysis for selecting the test reference year

Kalamees, Targo; Kurnitski, Jarek Proceedings of the Healthy Buildings 2006 : Lisboa, Portugal, 4-8 June. V 2006 / p. 207-212

Estonian climate analysis for selecting the test reference year

Kalamees, Targo; Kurnitski, Jarek Proceedings of the Healthy Buildings 2006 : Lisboa, Portugal, 4-8 June. A 2006 / p. 253

Estonian climate analysis for selecting the test reference year

Kalamees, Targo; Kurnitski, Jarek Annual report / Helsinki University of Technology, HVAC-Laboratory 2006 / [10] p

Estonian test reference year for energy calculations

Kalamees, Targo; Kurnitski, Jarek Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 1, p. 40-58 : ill

Ettekandele järgnenud arutelu : [Eesti Energia juhatuse esimehe Hanno Sutteri ettekandele "Eesti energiamajanduse kümne aasta väljavaade", peetud Eesti Teaduste Akadeemia üldkogul 7. detsembril 2922]

Saari, Peeter; Sutter, Hando; Kurnitski, Jarek; Grossberg-Kuusk, Maarja Eesti Teaduste Akadeemia sõnas ja pildis 2022 2023 / lk. 55-57 https://www.ester.ee/record=b5054043*est

Europarlamenti ettepanek tekitab Eestis renoveerimispaanika

Gnadenteich, Uwe Postimees 2023 / lk. 6 <https://dea.digar.ee/article/postimees/2023/03/23/3.9>

The European Smart Readiness Indicator (SRI) for buildings - in the making, get involved!

Litiu, Andrei; Derjanecz, Anita; Kurnitski, Jarek The REHVA European HVAC journal 2018 / p. 47-52 : ill <https://www.rehva.eu/rehva-journal/detail/06-2018>

Evaluating daylight factor standard through climate based daylight simulations and overheating regulations in Estonia

De Luca, Francesco; Kiil, Martin; Simson, Raimo; Kurnitski, Jarek; Murula, Rein Proceedings of Building Simulation 2019 : 16th IBPSA International Conference and Exhibition, 2-4 Sept., Rome 2020 / p. 3968-3975 : ill <https://doi.org/10.26868/25222708.2019.210915>

Evaluating the energy readiness of national building stocks through benchmarking

Ferrantelli, Andrea; Belikov, Juri; Petlenkov, Eduard; Thalfeldt, Martin; Kurnitski, Jarek IEEE Access 2022 / p. 45430-45443 : ill <https://doi.org/10.1109/ACCESS.2022.3170716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An evaluation of boar spermatozoa as a biosensor for the detection of sublethal and lethal toxicity

Castagnoli, Emmanuelle; Salo, Johanna; Toivonen, Matti S.; Kurnitski, Jarek Toxins 2018 / art. 463, 15 p. : ill <https://doi.org/10.3390/toxins10110463> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evidence based residential ventilation: sizing procedure and system solutions addressed by REHVA Residential Ventilation Task Force

Kurnitski, Jarek; Thalfeldt, Martin; Weele, Harry van; Toksoy, Macit; Carlsson, Thomas; Vladykova Bednarova, Petra; Seppänen, Olli E3S Web of Conferences : CLIMA 2019 Congress, May 26-29, 2019 2019 / art. 01016, 7 p <https://doi.org/10.1051/e3sconf/201911101016> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Exhaust air heat pump connection schemes and balanced heat recovery ventilation effect on district heat energy use and return temperature

Thalfeldt, Martin; Kurnitski, Jarek; Latšov, Eduard Applied thermal engineering 2018 / p. 402-414 : ill <https://doi.org/10.1016/j.applthermaleng.2017.09.033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An existing best practice of nearly Zero Energy Hotel

Buso, Tiziana; Corgnati, Stefano Paolo; Kurnitski, Jarek The REHVA European HVAC journal 2014 / p. 61-65 : ill

Experimental analysis of emission efficiency of parallel and serial connected radiators in EN442 test chamber

Võsa, Karl-Villem; Ferrantelli, Andrea; Kull, Tuule Mall; Kurnitski, Jarek Applied thermal engineering 2018 / p. 531-544 : ill <https://doi.org/10.1016/j.applthermaleng.2017.12.109> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental determination of radiator, underfloor and air heating emission losses due to stratification and operative temperature variations

Maivel, Mikk; Ferrantelli, Andrea; Kurnitski, Jarek Energy and buildings 2018 / p. 220-228 : ill <https://doi.org/10.1016/j.enbuild.2018.01.061> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental investigation of air distribution and ventilation efficiency in an ice rink arena

Toomla, Sander; Lestinen, Sami; Kilpeläinen, Simo; Leppä, Lauri; Kosonen, Risto; Kurnitski, Jarek International journal of ventilation 2019 / p. 187-203 : ill <https://doi.org/10.1080/14733315.2018.1437881> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental study of radiator, underfloor, ceiling and air heater systems heat emission performance in TUT nZEB test facility

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 04005, 7 p <https://doi.org/10.1051/e3sconf/201911104005> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Experimental testing of exterior wall mounted mechanical ventilation exhaust air outlet devices

Palmiste, Ülar; Meier, Tauno; Kurnitski, Jarek; Voll, Hendrik E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 02001, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124602001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Experimental validation of simulation and measurement-based overheating assessment approaches for residential buildings

Simson, Raimo; Kurnitski, Jarek; Kuusk, Kalle Architectural science review 2017 / p. 192-204 : ill <https://doi.org/10.1080/00038628.2017.1300130> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Expert: Soviet-era apartment blocks may last another century if maintained

Sildvee, Reimo news.err.ee 2023 [Expert: Soviet-era apartment blocks may last another century if maintained](#)

Exposure to indoor air contaminants in school buildings with and without reported indoor air quality problems

Voranan-Winqvist, Camilla; Järvi, Kati; Andersson, Maria A.; **Kurnitski, Jarek** Environment international 2020 / art. 105781, 14 p. : ill <https://doi.org/10.1016/j.envint.2020.105781> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Extent of geotechnical site investigations for buildings in Estonia

Leetsaar, Lehar; Korkiala-Tanttu, Leena; Jaaniso, Valdo; Kurnitski, Jarek; Idnum, Juhan 14th Baltic Sea Region Geotechnical Conference : 18-19th of January 2021, Helsinki, Finland 2021 / art. 012001, 12 p. : ill <https://doi.org/10.1088/1755-1315/727/1/012001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

External shading control principles for low energy office buildings

Thalfeldt, Martin; Kurnitski, Jarek NSB 2014 : 10th Nordic Symposium on Building Physics, 15-19 June 2014, Lund, Sweden : full papers 2014 / p. 806-813 : ill

External shading optimal control macros for 1- and 2-piece automated blinds in European climates

Thalfeldt, Martin; Kurnitski, Jarek Building simulation 2015 / p. 13-25 : ill <https://doi.org/10.1007/s12273-014-0194-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Extra cost analyses of two apartment buildings for achieving nearly zero and low energy buildings

Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek; Liias, Roode Liginullenergiahooneid täna ja homme : artiklite kogumik 2015 / p. 83-90 : ill

Extra cost analyses of two apartment buildings for achieving nearly zero and low energy buildings

Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek; Liias, Roode Energy 2015 / p. 623-633 : ill <https://doi.org/10.1016/j.energy.2015.03.026> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Facade design principles for nearly zero energy buildings in a cold climate

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik Energy and buildings 2013 / p. 309-321 : ill <https://doi.org/10.1016/j.enbuild.2013.08.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Faktat pöytään energiatehokkuuskeskustelussa [Electronic resource]

Kurnitski, Jarek Rakennuslehti 2015 / [1] p <http://www.rakennuslehti.fi/blogit/faktat-poytaan-energiatehokkuuskeskustelussa/>

Feasibility Study of Snow Removal from PV Module Using Universal Power Electronic Interface

Chauhan, Sachin; Chub, Andrii; Hasan, Sayeed; Lavrov, Artur; Kurnitski, Jarek; Vinnikov, Dmitri 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 5 p

Fenestration design for low and nearly zero energy buildings in a cold climate

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik Proceedings of CLIMA 2013 : 11th REHVA World Congress and the 8th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, Prague 16th-19th June, 2013 2013

Field survey of overheating problems in Estonian apartment buildings

Maivel, Mikk; Kurnitski, Jarek; Kalamees, Targo Architectural science review 2015 / p. 1-10 : ill <https://doi.org/10.1080/00038628.2014.970610> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Financial viability of energy-efficiency measures in a new detached house design in Finland

Saari, Arto; **Kalamees, Targo**; Jokisalo, Juha; Michelsson, Rasmus; Alanne, Kari; **Kurnitski, Jarek** Applied energy 2012 / p. 76-83 <https://www.sciencedirect.com/science/article/pii/S0306261911006830>

Finnish energy renovation subsidies in multifamily apartment buildings : Lessons learnt and best practices

Hajian, Hatef; Pylsy, Petri; **Simson, Raimo**; Ahmed, Kaiser; Sankelo, Paula; **Mikola, Alo; Kurnitski, Jarek** Energy and buildings 2024 / art. 113986 <https://doi.org/10.1016/j.enbuild.2024.113986>

Foranstaltninger imod luftbåren transmission af smitsomme sygdomme

Wargocki, Pawel; Melikov, Arsen Kriko; Bivolarova, Mariya; Nielsen, Peter V.; Heiselberg, Per; Afshari, Alireza; Zhang, Chen; Schild, Peter G.; Gao, Guangyu; **Kurnitski, Jarek** HVAC magasinet : magasin for klima- & energiteknik, miljø, bygningsinstallationer & -netværk 2020 / p. 10-12 <https://ipaper.ipapercms.dk/TechMedia/HVACMagasinet/2020/6/?page=10#/>

A future nearly Zero Energy Hotel in Italy

Corino, Oriana; Buso, Tiziana; **Kurnitski, Jarek** The REHVA European HVAC journal 2015 / 28-32

Füüsika praktikumi metoodiline juhend

1978 https://www.ester.ee/record=b1266392*est

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 <https://doi.org/10.1016/j.enbuild.2015.06.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 <https://doi.org/10.1016/j.egypro.2016.09.087> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A guide for renovation solution types of ventilation and building envelopes of typical post WWII apartment buildings

Kalamees, Targo; Thalfeldt, Martin; Zelenski, Maksim; Meos, Heiki; Laas, Margus; **Kurnitski, Jarek; Kuusk, Kalle** 14th International Conference on Indoor Air Quality and Climate (Indoor Air 2016) : Ghent, Belgium, 3-8 July 2016. Vol. 3 2016 / p. 1618-1625 : ill

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 <https://doi.org/10.1016/j.egypro.2016.09.179> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Heat recovery ventilation solutions for school building renovation

Kuivjõgi, Helena; Sarevet, Henri; Thalfeldt, Martin; Kurnitski, Jarek CLIMA 2022: the 14th REHVA HVAC World Congress, 22nd – 25th May in Rotterdam, The Netherlands 2022 / p. 1-8 <https://doi.org/10.34641/clima.2022.208>

Heat recovery ventilation system heating energy weather normalization – calculation method and case study

Kuivjõgi, Helena; Laaneste, Janar; Thalfeldt, Martin; Kurnitski, Jarek E3S Web Conference: BuildSim Nordic 2022 2022 / art. 09003 <https://doi.org/10.1051/e3sconf/202236209003> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Heating sizing power reduction in buildings connected to district heating with dynamically controlled DHW setback and flow limiters

Hajian, Hatef; **Simson, Raimo; Kurnitski, Jarek** Energies 2022 / art. 5278 <https://doi.org/10.3390/en15145278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Maivel, Mikk 2015 https://www.ester.ee/record=b4484289*est

Heating system return temperature effect on heat pump performance

Maivel, Mikk; Kurnitski, Jarek Energy and buildings 2015 / p. 71-79 : ill <https://doi.org/10.1016/j.enbuild.2015.02.048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Highlights from REHVA Supporters' Seminar 2015

Kurnitski, Jarek The REHVA European HVAC journal 2015 / 56-59

Highly insulated crawl spaces with controlled minimal ventilation – proof of concept by field measurements

Airaksinen, Miimu; Olsson, Lars; **Kurnitski, Jarek**; Hvidberg, Staffan E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 07004, 5 p. : ill <https://doi.org/10.1051/e3sconf/202017207004> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Hoonete energiatõhusus [Võrguteavik] : hoonete ventilatsioon. Osa 1, Sisekeskkonna lähteandmed hoonete energiatõhususe projekteerimiseks ja hindamiseks, lähtudes siseõhu kvaliteedist, soojuslikust keskkonnast, valgustusest ja akustikast. Moodul M1-6 : Eesti standardi rahvuslik lisa = Energy performance of buildings : ventilation for buildings. Part 1, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lightning and acoustics. Module M1-6 : Estonian National Annex

2019 https://www.ester.ee/record=b5272875*est

Hoonete energiatõhususe direktiiv jõustub peagi

Kurnitski, Jarek EhitusEST 2024 / lk. 18-19 : fot https://www.ester.ee/record=b4442657*est

Hoonete energiatõhususe direktiiv uueneb

Kurnitski, Jarek EhitusEST 2022 / lk. 14-15 : ill https://www.ester.ee/record=b4442657*est <https://ehitusest.ee/uudis/2022/02/01/hoonete-energiatohususe-direktiiv-uueneb/>

Hoonete energiatõhususe võimalustest ja väljakutsetest [Võrguväljaanne]

Kurnitski, Jarek Konverents "Kliimaneutraalsus – häving või edu?" 2019 / 16 | [Hoonete energiatõhususe võimalustest ja väljakutsetest Kliimaneutraalsus – häving või edu? Süsinikuneutraalne majandus nõuab uusi tehnoloogiaid paljudes valdkondades](#)

Hoonete kuluoptimaalsete energiatõhususe miinimumtasemetega analüüs [Võrguteavik]

Arumägi, Endrik; Simson, Raimo; Kuusk, Kalle; Kalamees, Targo; Kurnitski, Jarek 2017 https://www.ester.ee/record=b4762265*est

Hoonete rekonstrueerimise pikaajaline strateegia

2020 <https://www.mkm.ee/media/155/download>

Hoonete renoveerimine on majanduskasvu mootor

Kalberg, Signe; **Kurnitski, Jarek** Eesti Päevaleht 2016 / Korterühistute leht, lk. 6 <https://epi.delfi.ee/artikkel/74531941/hoonete-renoveerimine-on-majanduskasvu-mootor>

Hourly consumption profiles of domestic hot water for different occupant groups in dwellings

Ahmed, Kaiser; Pylsy, Petri; **Kurnitski, Jarek** Solar energy 2016 / p. 516-530 : ill <https://doi.org/10.1016/j.solener.2016.08.033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hourly consumption profiles of domestic hot water for Finnish apartment buildings

Ahmed, Kaiser; Pylsy, Petri; **Kurnitski, Jarek** CLIMA 2016 - proceedings of the 12th REHVA World Congress. Vol. 3 2016 / [10] p. : ill http://vbn.aau.dk/files/233716878/paper_166.pdf

How can airborne transmission of COVID-19 indoors be minimised?

Morawska, Lidia; Tang, Julian W.; Bahnfleth, William; **Kurnitski, Jarek** Environment international 2020 / art. 105832, 7 p <https://doi.org/10.1016/j.envint.2020.105832> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

How to calculate cost optimal nZEB energy performance?

Kurnitski, Jarek The REHVA European HVAC journal 2011 / p. 36-41 : ill https://www.rehva.eu/fileadmin/hvac-dictio/05-2011/rj1105_p36-41_how-to-calculate-cost-optimal-nzeb-energy-performance.pdf

How to compare energy performance requirements of Japanese and European office buildings

Ahmed, Kaiser; Yoon, Gyuyoung; Ukai, Makiko; **Kurnitski, Jarek** E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 03038, 8 p <https://doi.org/10.1051/e3sconf/20191103038> [Conference proceedings at Scopus](#) [Article at Scopus](#)

How to define nearly net zero energy buildings nZEB : REHVA proposal for uniformed national implementation of EPBD recast

Kurnitski, Jarek The REHVA European HVAC journal 2011 / p. 6-12 : ill <http://www.rogbc.org/Downloads/REHVA%20work%20on%20NZEB.pdf>

HVAC in sustainable office buildings : a bridge between owners and engineers

Hovorka, Frank; **Kurnitski, Jarek**; Litiu, Andrei 2012 https://books.google.ee/books/about/HVAC_in_Sustainable_Office_Buildings.html?id=JQOPwgEACAAJ&redir_esc=y

A hybrid Genetic Algorithm and Monte Carlo simulation approach to predict hourly energy consumption and generation by a cluster of Net Zero Energy Buildings

Garshasbi, Samira; **Kurnitski, Jarek**; Mohammadi, Yousef Applied energy 2016 / p. 626-637 : ill <https://doi.org/10.1016/j.apenergy.2016.07.033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hyvistä oivalluksista ei ainakaan vielä ole pulaa : pääkirjoitus

Kurnitski, Jarek Talotekniikka 2012 / s. 5 <https://talotekniikka-lehti.fi/hyvista-oivalluksista-ei-ainakaan-viela-ole-pulaa/>

Незванный гость: плесень в многоквартирном доме - чья проблема?

Truvorova, Olesja Stolitsa 2023 / с. 4-5

Igatalvine mure : naabri külm korter tuleb teistel majaanikel soojaks kütta

Hallik, Liina ohtuleht.ee 2024 [Igatalvine mure: naabri külm korter tuleb teistel majaanikel soojaks kütta](#)

Ilmanpäävyyden vaikutus vuotoilmanvaihtoon ja energiakulutukseen pientaloissa

Jokisalo, Juha; **Kurnitski, Jarek; Kalamees, Targo**; Eskola, Lari; Jokiranta, Kai Sisäilmastoseminaari 2007 2007 / s. 241-246
<https://research.aalto.fi/publications/ilmanpit%C3%A4vyyden-vaikutus-vuotoilmanvaihtoon-ja-energiankulutukseen>

Ilmanvaihdon ylipaineistuksen vaikutus koulurakennuksen mitattuun ja koettuun sisäilman laatuun

Vornanen-Winqvist, Camilla; Järvi, Kati; Toomla, Sander; Ahmed, Kaiser; **Kurnitski, Jarek** Sisäilmastoseminaari 2018 : Messukeskus, Helsinki, 15.3.2018 2018 / s. 351–356 : ill http://sisailmayhdistys.fi/SISAILMASTO_seminaarijulkaisu2018.pdf

Ilmavuotojen merkitys seinä- ja kattorakenteiden kostutusteknisessä toiminnassa

Kalamees, Targo; Kurnitski, Jarek Rakennusfysiikka 2009 2009 / p. 11

The impact of air pressure conditions on the performance of single room ventilation units in multi-story buildings

Mikola, Alo; Simson, Raimo; Kurnitski, Jarek Energies 2019 / art. 2633, 18 p. : ill <https://doi.org/10.3390/en12132633> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The impact of infiltration on heating systems dimensioning in Estonian climate

Simson, Raimo; Rebane, Taniel; Kiil, Martin; Thalfeldt, Martin; Kurnitski, Jarek E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 05004, 8 p. : ill <https://doi.org/10.1051/e3sconf/202017205004> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Impact of internal heat gain profiles on the design cooling capacity of landscaped offices

Seyed Salehi, Seyed Shahabaldin; Ferrantelli, Andrea; Aljas, Hans Kristjan; Kurnitski, Jarek; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 07003, 7 p. : ill <https://doi.org/10.1051/e3sconf/202124607003> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The impact of parallel energy consumption on the district heating networks

Latõšov, Eduard; Siirde, Andres; Volkova, Anna; Thalfeldt, Martin; Kurnitski, Jarek Environmental and Climate Technologies 2019 / 13 p. : ill <https://doi.org/10.2478/rtuct-2019-0001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The impact of the technical requirements of the renovation grant on the ventilation and indoor air quality in apartment buildings

Mikola, Alo; Hamburg, Anti; Kuusk, Kalle; Kalamees, Targo; Voll, Hendrik; Kurnitski, Jarek Building and environment 2022 / art. 108698 <https://doi.org/10.1016/j.buildenv.2021.108698> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Indoor air problems in new schools and daycare centers

Vornanen-Winqvist, Camilla; Mikkola, Raimo; **Kurnitski, Jarek** 14th International Conference on Indoor Air Quality and Climate (Indoor Air 2016) : Ghent, Belgium, 3-8 July 2016. Vol. 3 2016 / p. 1811-1818 : ill

Indoor climate and energy performance in nearly zero energy day care centers and school buildings

Kaiser, Ahmed; **Kuusk, Kalle**; Heininen, Henrik; **Arumägi, Endrik; Kalamees, Targo**; Hasu, Tero; Lolli, Nicola; **Kurnitski, Jarek** E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 02003 ; 9 p. : ill <https://doi.org/10.1051/e3sconf/201911102003> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Indoor climate conditions and hygrothermal loads in Finnish and Estonian dwellings

Kalamees, Targo; Vinha, Juha; Korpi, Minna; **Kurnitski, Jarek** Proceedings of the IEA ECBCS Annex 41 Closing Seminar : Copenhagen, Denmark, June 19, 2008 2008 / p. 81-92

Indoor climate conditions in lightweight detached houses in cold climate [Electronic resource]

Kalamees, Targo; Kurnitski, Jarek; Vinha, Juha; Korpi, Minna The 6th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings : IAQVEC 2007, Oct 28-31, 2007, Sendai, Japan 2007 / [8] p. [CD-ROM]

Indoor climate in low energy buildings – main topic in Healthy Buildings Conference

Kurnitski, Jarek The REHVA European HVAC journal 2012 / p. 14-22 : ill

Indoor humidity loads and moisture production in lightweight timber-frame detached houses

Kalamees, Targo; Vinha, Juha; **Kurnitski, Jarek** Journal of building physics 2006 / 3, p. 219-246

Indoor temperature and humidity conditions in Finnish dwellings [Electronic resource]

Kalamees, Targo; Kurnitski, Jarek; Keto, M.; Eskola, E.; Jokisalo, Juha; Korpi, Minna; Vinha, Juha Indoor Air 2008 : The 11th International Conference on Indoor Air Quality and Climate : 17-22.08.2008, Copenhagen, Denmark 2008 / [8] p. [CD-ROM]

Indoor temperature and humidity load in Finnish detached houses

Kalamees, Targo; Vinha, Juha; **Kurnitski, Jarek** IEA-Annex 41 MOIST-ENG working meeting : Montreal, Canada, 16-18 May 2005

Indoor Trichoderma strains emitting peptaibols in guttation droplets

Castagnoli, Emmanuelle; Marik, Tamas; Mikkola, Raimo; Kredics, Laszlo; Andersson, Maria A.; Salonen, Heidi; **Kurnitski, Jarek** Journal of applied microbiology 2018 / p. 1408-1422 <https://doi.org/10.1111/jam.13920> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Infection risk-based ventilation design method

Kurnitski, Jarek Ventilation challenges in a changing world : the 42nd AIVC, 10th Tightvent and 8th venticool Conference : proceedings 2022 / p. 21-27 https://www.aivc.org/sites/default/files/download/AIVC2022_Proceedings.pdf

Infection risk-based ventilation effectiveness assessment in cruise ship common spaces using tracer gas measurements

Mikola, Alo; Kiil, Martin; Vösa, Karl-Villem; Kurnitski, Jarek E3S Web of Conferences : Roomvent Conference 2024 2024 / 5 p <https://invitepeople.com/public/events/fe41371a0b/pages/ed19d3ae89>

Infiltration simulation in a detached house - empirical model validation : [abstract] [Electronic resource]

Jokisalo, Juha; **Kalamees, Targo; Kurnitski, Jarek**; Eskola, Lari; Jokiranta, Kai; Vinha, Juha Proceedings of Clima 2007 WellBeing Indoors : 10-14 June 2007, Helsinki, Finland 2007 / p. 289 [CD-ROM] <https://researchportal.tuni.fi/en/publications/infiltration-simulation-in-a-detached-house-empirical-model-valid>

Infiltration simulation in a detached house - empirical model validation [Electronic resource]

Jokisalo, Juha; **Kalamees, Targo; Kurnitski, Jarek**; Eskola, Lari; Jokiranta, Kai; Vinha, Juha Proceedings of Clima 2007 WellBeing Indoors : 10-14 June 2007, Helsinki, Finland 2007 / [CD-ROM] <https://researchportal.tuni.fi/en/publications/infiltration-simulation-in-a-detached-house-empirical-model-valid>

The influence of exterior walls on the level and stability of indoor relative humidity and temperature in detached houses

Korpi, Minna; **Kalamees, Targo**; Vinha, Juha; **Kurnitski, Jarek** Proceedings of the 8th Symposium on Building Physics in the Nordic Countries : Copenhagen, Denmark, June 16-18, 2008. 3 2008 / p. 1413-1420 https://www.researchgate.net/publication/228600799_The_influence_of_exterior_walls_on_the_level_and_stability_of_indoor_humidity_and_temperature_in_detached_houses

Influence of time constants on low energy buildings' heating control

Kull, Tuule Mall; Simson, Raimo; Thalfeldt, Martin; Kurnitski, Jarek Energy procedia 2017 / p. 75-80 : ill <https://doi.org/10.1016/j.egypro.2017.09.640> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Internal moisture excess of residential buildings in Finland

Vinha, Juha; Salminen, Mikko; Salminen, Kati; **Kalamees, Targo; Kurnitski, Jarek**; Kiviste, Mihkel Journal of building physics 2018 / p. 239-258 : ill <http://dx.doi.org/10.1177/1744259117750369>

Interview of REHVA Board members on nearly Zero Energy Buildings

Kurnitski, Jarek The REHVA European HVAC journal 2014 / p. 59

Intervjuu teadlasega: miks loobuti koroonaviirusega võitlemisel ruumide ja pindade desinfitseerimisest

Kurnitski, Jarek forte.delfi.ee 2021 <https://forte.delfi.ee/artikkel/92210123/intervjuu-teadlasega-miks-loobuti-koroonaviirusega-voitlemisel-ruumide-ja-pindade-desinfitseerimisest?>

Introduction

Kurnitski, Jarek Cost Optimal and Nearly Zero-Energy Buildings (nZEB) 2015 / p. 1-5 https://doi.org/10.1007/978-1-4471-5610-9_1 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Introduction to building automation, controls and technical building management

Brook, Bonnie; Corgnati, Stefano Paolo; D'Oca, Simona; **Kurnitski, Jarek** 2017

It is time to address airborne transmission of COVID-19

Morawska, Lidia; Milton, Donald K. Clinical infectious diseases 2020 / p. 2311-2313 <https://doi.org/10.1093/cid/ciaa939>

Jarek Kurnitski – inseneeria eestkõneleja ja akadeemilise vabaduse kaitsja

Kurnitski, Jarek delfi.ee 2025 <https://arileht.delfi.ee/artikkel/120370830/jarek-kurnitski-inseneeria-eestkoneleja-ja-akadeemilise-vabaduse-kaitsja>

Jarek Kurnitski : liginullenergiahooned vajavad uut lähenemist, esitades suure väljakutse

Ots, Margot; Kamps, Mari Inseneeria 2016 / lk. [24]-25 : fot http://www.ester.ee/record=b2336521*est https://artiklid.elnet.ee/record=b2806765*est

Jarek Kurnitski : rektorivalimistel vajab TTÜ lendstarti [Võrguväljaanne]

Kurnitski, Jarek novaator.err.ee 2020 / fot [Jarek Kurnitski: rektorivalimistel vajab TTÜ lendstarti](#)

Jarek Kurnitski : teadus peab toetama läbimurret kodude ja töökohtade täisrenoveerimisel

Kurnitski, Jarek; Aav, Riina rohe.geenius.ee 2024 [Jarek Kurnitski: teadus peab toetama läbimurret kodude ja töökohtade täisrenoveerimisel](#)

Jarek Kurnitski : tulevik kuulub liginullenergiamajadele [Võrguteavik]

Kurnitski, Jarek Postimees 2018 [Tulevik kuulub liginullenergiamajadele](#)

Jarek Kurnitski: aitab viirusest!

Kurnitski, Jarek Mente et Manu 2020 / lk. 26-29 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_02_2020/mobile/index.html
https://www.ester.ee/record=b1242496*est

Jarek Kurnitski: Eestis ei ole võimalik samaaegselt arendada taastuv- ja tuumaenergeetikat

Kurnitski, Jarek; Tambur, Silver delfi.ee 2024 [Jarek Kurnitski: Eestis ei ole võimalik samaaegselt arendada taastuv- ja tuumaenergeetikat](#)

Jarek Kurnitski: energia kokkuhoid aitab talve üle elada [Võrguväljaanne]

Kurnitski, Jarek err.ee [Jarek Kurnitski: energia kokkuhoid aitab talve üle elada](#)

Jarek Kurnitski: hoonete fondi ja ehitusturgu ootavad suured muutused

Kurnitski, Jarek Ehitaja 2024 / lk. 21 : portr https://www.ester.ee/record=b1072123*est

Jarek Kurnitski: hoonete fondi ja ehitusturgu ootavad suured muutused

Kurnitski, Jarek kinnisvarauudised.ee 2024 [Jarek Kurnitski: hoonete fondi ja ehitusturgu ootavad suured muutused](#)

Jarek Kurnitski: ka roheehituses võib leida uusi kasumlikke nišše

Kurnitski, Jarek; Liiviste, Priit ehitusleht.ee 2024 [Jarek Kurnitski: ka roheehituses võib leida uusi kasumlikke nišše](#)

Jarek Kurnitski: missuguses korterelamus on kõige väiksemad kulud?

Kurnitski, Jarek Trialoog 2024 [Jarek Kurnitski: missuguses korterelamus on kõige väiksemad kulud?](#)

Jarek Kurnitski: oleme arenenud meeletult kiiresti

Kurnitski, Jarek Teatnik 2011 : 20 aastat EKVÜ-d! / Eesti Kütte- ja Ventilatsiooniinseneride Ühendus 2011 / lk. 53-55 : portr

Jarek Kurnitski: tõhus ventilatsioon võib olla koroonavõõrutamise tõkestamisel võtmetegur

Kurnitski, Jarek Ehitaja 2020 / lk. 40-41 : fot http://www.ester.ee/record=b1072123*est

JRC review - evidence based recommendations for IEQ inclusion in EPBD

Kurnitski, Jarek The REHVA European HVAC journal 2017 / p. 51
http://www.rehva.eu/fileadmin/REHVA_Journal/REHVA_Journal_2017/RJ2/RJ1702_WEB.pdf

Juhised radoonikaitse meetmete kasutamiseks uutes ja olemasolevates hoonetes = Guidance for radon-protective measures for new and existing buildings [Võrguteavik]

2017 http://www.ester.ee/record=b4671261*est

Julkisten uudisrakennusten sisäilmaongelmat sekä ilmanvaihdon ja puumateriaalien vaikutukset sisäilman laatuun - Työsuojelurahaston hanke 115376

Voronen-Winqvist, Camilla; Alapieti, Tuomas; Andersson, Maria A.; Kurnitski, Jarek 2018 <http://urn.fi/URN:ISBN:978-952-60-8063-5>

Kallim, aga energiatõhusam maja aastast 2021

Luht, Elen; Kurnitski, Jarek Postimees 2017 / Kodu, lk. 2-3

Kas ir gandrīz nulles enerģijas ēkas? Eiropas Inženieru savienību federācijas definīcija

Kurnitski, Jarek Latvijas būvniecība 2013 / l. 4-10 : ill

Katsemaja toel tõhusama ehitamise poole : [kommenteerib TTÜ liginullenergiahoonete uurimisgrupi juht ning ehitiste projekteerimise instituudi direktor Jarek Kurnitski]

Leet, Lauri Ehitaja 2014 / lk. 38-42 : fot https://artiklid.elnet.ee/record=b2686641*est

Kehva energiaklassiga kinnisvara omanike tulevik läheb lihtsamaks

Raig, Tanel Eesti Päevaleht 2024 / Lk. 22-23 [Kehva energiaklassiga kinnisvara omanike tulevik läheb lihtsamaks](#) [Kehva energiaklassiga kinnisvara omanike tulevik läheb lihtsamaks, sest nad peavad vähem investeerima](#)

Kerrostalokannan energiatehokkuus

Kurnitski, Jarek Puun mahdollisuudet lähiöiden korjauksissa 2011 / s. 18-23 : ill

Kliiamaesmärgid esitavad korteriühistutele tõsise väljakutse

Remmelg, Teeli kinnisvarauudised.ee 2024 [Kliimaeesmärgid esitavad korteriühistutele tõsise väljakutse](#)

Kliimaneutraalsus nõuab miljonite hoonete renoveerimist

Imeline Teadus 2021 / lk. 20 : fot https://www.ester.ee/record=b2747925*est

Kliimaneutraalsuse teekaart seab selged eesmärgid. Tallinna Tehnikaülikoolis esitleti kliimaneutraalsuse teekaarti. See seab lähikümnendi sihiks vähendada ülikooli süsiniku jalajälge ja jõuda nullheite lähedale aastaks 2035

Mustamäe 2025 / lk. 8 : ill https://www.ester.ee/record=b1072635*est

Kliimaseadus ei tohiks muuta kinnisvara kättesaamatuks

kinnisvarauudised.ee 2024 [Kliimaseadus ei tohiks muuta kinnisvara kättesaamatuks](#)

Konsultant: elamute renoveerimise rahastamine pole siiani olnud stabiilne

Pott, Toomas err.ee 2023 [Konsultant: elamute renoveerimise rahastamine pole siiani olnud stabiilne](#) [Kuidas suudavad väiksemate majade vaesemad pered ja pensionärid euroliidu nõuet täita?](#)

Kontroll karmistub: vale energiamärgise kinnitanud spetsialist võetakse pihtide vahele

Remmelg, Teeli ehitusuudised.ee 2023 <https://www.ehitusuudised.ee/uudised/2023/04/04/kontroll-karmistub-vale-energiamargise-kinnitanud-spetsialist-voetakse-pihtide-vahele>

Koroona töi ventilatsiooni paradigma muutuse

Kurnitski, Jarek Eesti Teaduste Akadeemia sõnas ja pildis 2022 2023 / lk. 11-12 : ill https://www.ester.ee/record=b5054043*est

Koroonaviiruse leviku tõkestamine töökohtadel - tehnosüsteemid

Kurnitski, Jarek Ehitaja 2020 / lk. 42 : ill http://www.ester.ee/record=b1072123*est

Korterelamu renoveerimine: parem üks kord ja korralikult. Millised remonttööd on vajalikud?

Kurnitski, Jarek maaleht.ee 2023 [Korterelamu renoveerimine: parem üks kord ja korralikult. Millised remonttööd on vajalikud?](#)

Korterelamute välispiirete lisasoojustamise sõlmejoonised ja tüüpkerite ventilatsioonilahendused

Kalamees, Targo; Thalfeldt, Martin; Meos, Heiki; Laas, Margus; Zelenski, Maksim; Kurnitski, Jarek; Diligentov, Eduard; Bökova, Larissa 2015

Korteriühistud saavad Euroopast 300-miljonilise abikäe

Puhm, Carl-Robert postimees.ee 2023 [Korteriühistud saavad Euroopast 300-miljonilise abikäe](#)

Kouvola Housing fair NZEB houses energy, cost and carbon analyses

Ahmed, Kaiser; Hajian, Hatef; Hasu, Tero; Kurnitski, Jarek E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 13001, 8 p. : ill <https://doi.org/10.1051/e3sconf/202017213001>
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Kui hoonel ja hoones on külm

Kurnitski, Jarek Tööelu : Tööinspektsiooni ajakiri 2022 / Lk. 26-27 <https://www.ti.ee/sites/default/files/documents/2022-11/T%C3%B6%C3%B6elu%202022%20talv.pdf> https://www.ester.ee/record=b4520813*est

Kuidas arvutada hoone süsinikujalajälge?

Kurnitski, Jarek; Lylykangas, Kimmo Sakari EhitusEST 2022 / lk. 22-24 : tab https://www.ester.ee/record=b4442657*est
<https://ehitusest.ee/uudis/2022/04/04/hoone-susinikujalalg/>

Kuidas ehitusinseneride õppel läheb

Kurnitski, Jarek; Lill, Irene; Annus, Ivar Eesti Ehituskonsultantsiooniettevõtete Liit, EKEL : [aastaraamat] = Estonian Association of Architectural and Consulting Engineering Companies, EAACEC 2019 2019 / lk. 19-24 : ill https://www.ester.ee/record=b1222961*est
<https://ekel.ee/et/valjaanded>

Kuidas jõuda riigi nõutavasse energiaklassi? Eramajade jaoks on üks kiire nipp

Laks, Liina postimees.ee 2023 [Kuidas jõuda riigi nõutavasse energiaklassi? Eramajade jaoks on üks kiire nipp](#)

Kuidas kavandada ja projekteerida madal- või liginullenergiahoonet? : [juhendmaterjali töögrupi juht Jarek Kurnitski TTÜst]

Kurnitski, Jarek Ehitaja 2013 / lk. 27-29 https://artiklid.elnet.ee/record=b2600739*est

Kuidas saavad ülikoolid reageerida energiakriisile ja rohepöörde ühiskondlikele probleemidele?

Kurnitski, Jarek Mente et Manu 2022 / lk. 4-5 : portr https://www.ester.ee/record=b1242496*est

Kuidas tõkestada viirushaigusi töökohtadel

Kurnitski, Jarek Äripäev 2020 / Ehitusuudised, Lk. 24-25 : portr https://www.ester.ee/record=b2050444*est

https://www.ester.ee/record=b1071975*est

Kuidas välisvarjestusega (energiat) kokku hoida

Kurnitski, Jarek; Thalfeldt, Martin Inseneeria 2014 / lk. 20-21 : ill https://artiklid.elnet.ee/record=b2672919*est

Kurnitski : hoonete energiatõhusus takerdub inseneride haridusse

Kurnitski, Jarek ehitusuudised.ee 2022 [Kurnitski: hoonete energiatõhusus takerdub inseneride haridusse](#)

Kurnitski: Eesti on süsiniku jalajälje osas maha jäänud

Kurnitski, Jarek; Vilks, Urve kinnisvarauudised.ee 2024 [Kurnitski: Eesti on süsiniku jalajälje osas maha jäänud](#)

Kurnitski: Eesti on süsiniku jalajälje osas maha jäänud

Kurnitski, Jarek; Vilks, Urve ehitusuudised.ee 2024 [Kurnitski: Eesti on süsiniku jalajälje osas maha jäänud](#)

Kurnitski: Eestis on renoveerimist vajavate majade hulk erakordselt suur

Kurnitski, Jarek ehitusuudised.ee 2023 [Kurnitski: Eestis on renoveerimist vajavate majade hulk erakordselt suur](#)

Kurnitski: hoonete energiatõhusus takerdub inseneride haridusse

Kurnitski, Jarek Ehitaja 2023 / lk. 36-37 : ill https://www.ester.ee/record=b1072123*est

Kurnitski: korteri jahutamiseks tuleb päevasel ajal aknad kinni hoida [Võrguväljaanne]

Müller, Arp; Kurnitski, Jarek err.ee 2021 / audio [Kurnitski: korteri jahutamiseks tuleb päevasel ajal aknad kinni hoida](#)

Kurnitski: pandeemia muutis inimeste arusaama ventilatsiooni vajalikkusest = Курницкий: Пандемия изменила мнение людей о необходимости вентиляции

Kurnitski, Jarek Elamu 2021 / lk. 13 https://www.ester.ee/record=b1072137*est

Kurnitski: pigem võiks ehitada majade alla varjumiskohti = Эксперт: создать бомбоубежища реально только в новостройках

Rohemäe, Maria-Ann err.ee 2024 [Kurnitski: pigem võiks ehitada majade alla varjumiskohti Эксперт: создать бомбоубежища реально только в новостройках](#)

Kurnitski: rohepööre seab ehituses uusi suuri väljakutseid: millist eriala oleks kaval õppida

Kurnitski, Jarek postimees.ee 2023 [Kurnitski: rohepööre seab ehituses uusi suuri väljakutseid: millist eriala oleks kaval õppida](#)

Kõva müügitöö tekitab soojuspumpade suhtes ebarealistlikke ootusi

Piir, Rait novaator.err.ee 2025 <https://novaator.err.ee/1609693046/kova-muugitoo-tekitab-soojuspumpade-suhtes-ebarealistlikke-ootusi>

Kütmata suvemaja ohustab niiskus : [nõuandeid annab TTÜ professor Jarek Kurnitski]

Viiron, Kristiina; Kurnitski, Jarek Eesti Päevaleht 2012 / lk. 12-13 <https://epl.delfi.ee/artikkel/65360106/kutmata-suvemaja-ohustab-niiskus>

Kylmäsiltojen ja ilmapuotikohtien jakauma suomalaisissa pientaloissa ja kerrostaloasunnoissa

Kalamees, Targo; Korpi, Minna; Eskola, Lari; Kurnitski, Jarek; Vinha, Juha Rakennusfysiikka 2007 : Tampere (Finland), 18-19.10.2007 2007 / s. 295-302

Liginullenergia väljakutse on inimesed

Kurnitski, Jarek Äripäev 2018 / lk. 12 [Liginullenergia väljakutse on inimesed](#)

Liginullenergiahooned tõmbasid ehitusteadused tippkeskusesse

Kurnitski, Jarek 100 aastat TTÜ ehitusinsener 2018 / lk. 296-303 : ill

Liginullenergiahooned täna ja homme : artiklite kogumik

2015 https://www.ester.ee/record=b4505002*est

Liginullenergiahoonete ehitamine läheneb kiirelt

Kurnitski, Jarek Ehitaja 2015 / lk. 14-18 : ill https://artiklid.elnet.ee/record=b2767562*est

Liginullenergiahoonete ehitamine läheneb suure kiirusega

Kurnitski, Jarek Liginullenergiahooned täna ja homme : artiklite kogumik 2015 / lk. 9-14 : ill

Liginullenergiahoonete nõuded Euroopas

Kurnitski, Jarek Ehitaja 2015 / lk. 16-19 : ill https://artiklid.elnet.ee/record=b2713286*est

Liginullenergiahoonete näiteid meilt ja mujalt

Kurnitski, Jarek Liginullenergiahooned täna ja homme : artiklite kogumik 2015 / lk. 15-19 : ill

Liginullenergiamajad - Euroopa ehituse tulevik

Kurnitski, Jarek Inseneeria 2013 / lk. 32-33 : ill https://artiklid.elnet.ee/record=b2619452*est

Liginullenergiamajad : Soome võitleb hoonete hallitusega, Eestit päästab oskuslik projekteerimine

Soopan, Ivar; **Kurnitski, Jarek**; Kalamees, Targo Maaleht 2018 / lk. 2-3

The load-bearing capacity of screw piles in silty soils based on mechanical, piezocone and seismic soundings =

Kruvivaiade kandevõime määramine möllides mehaaniliste, piesokoonuste ja seismiliste sondeerimistega

Leetsaar, Lehar 2024 https://www.ester.ee/record=b5719224*est <https://digikogu.taltech.ee/et/Item/a57d353d-e3d8-42e1-95ce-c27ea266f738>
<https://doi.org/10.23658/taltech.56/2024>

Low temperature radiator heating distribution and emission efficiency in residential buildings

Maivel, Mikk; **Kurnitski, Jarek** Energy and buildings 2014 / p. 224-236 : ill <https://doi.org/10.1016/j.enbuild.2013.10.030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Low temperature radiator heating system detailed dynamic simulation - distribution and emission efficiency

Maivel, Mikk; **Kurnitski, Jarek** Proceedings of CLIMA 2013 : 11th REHVA World Congress and the 8th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, Prague 16th-19th June, 2013 2013

Madal- ja liginullenergiahooned : büroohoonete põhilahendused eskiis- ja eelprojektis

Kurnitski, Jarek; Thalfeldt, Martin; Kalamees, Targo; Voll, Hendrik; Uutar, Aivar; Rosin, Argo 2013

Madal- ja liginullenergiamajad - väikeste ja nullilähedaste energiakuludega majad

Kurnitski, Jarek Kalender 2014 2013 / lk. 103-108 : ill

Madalenergia büroohoone fassaadi majandusanalüüs

Thalfeldt, Martin; Pikas, Ergo; **Kurnitski, Jarek** Ehitaja 2015 / lk. 22-25 : ill https://artiklid.elnet.ee/record=b2720865*est

Madalenergia büroohoone fassaadi majandusanalüüs

Thalfeldt, Martin; Pikas, Ergo; **Kurnitski, Jarek** Liginullenergiahooned täna ja homme : artiklite kogumik 2015 / lk. 52-58 : ill

Maria Jufereva-Skuratovski: Eesti paneelmaju hakatakse massiliselt remontima. Vajame kindlustunnet, et raha ei lähe ühistujuhtide taskusse

Jufereva-Skuratovski, Maria epl.delfi.ee 2024 [Maria Jufereva-Skuratovski: Eesti paneelmaju hakatakse massiliselt remontima. Vajame kindlustunnet, et raha ei lähe ühistujuhtide taskusse](#)

Market based renovation solutions in non-residential buildings - Why commercial buildings are not renovated to NZEB

Kuivjõgi, Helena; Uutar, Aivar; Kuusk, Kalle; Thalfeldt, Martin; **Kurnitski, Jarek** Energy and buildings 2021 / art. 111169, 13 p. : ill <https://doi.org/10.1016/j.enbuild.2021.111169> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Measured and simulated air pressure conditions in Finnish residential buildings

Kalamees, Targo; **Kurnitski, Jarek**; Jokisalo, Juha; Eskola, Lari; Jokiranta, Kai; Vinha, Juha Building services engineering research & technology 2010 / 2, p. 177-190 : ill <https://journals.sagepub.com/doi/pdf/10.1177/0143624410363655>

Measured and simulated energy performance of OLK NZEB with heat pump and energy piles in Hämeenlinna

Fadejev, Jevgeni; **Simson, Raimo**; Kesti, Jyrki; **Kurnitski, Jarek** E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 16012, 11 p. : ill <https://doi.org/10.1051/e3sconf/202017216012>
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Measured performance of exhaust air heat pumps in Finnish apartment buildings

Pylsy, Petri; **Kurnitski, Jarek** E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 06001, 7 p
<https://doi.org/10.1051/e3sconf/202124606001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Measurement and simulations of air pressure in a two-storey detached house and in a five-storey apartment building

Kalamees, Targo; Jokisalo, Juha; **Kurnitski, Jarek**; Vinha, Juha IEA-Annex 41 MOIST-ENG, working meeting : Florianopolis (Brazil), 16-18 April, 2007 2007 / [8] p <https://bwk.kuleuven.be/bwf/projects/annex41/protected/data/TTU%20Apr%202007%20Paper%20A41-T3-EE-07-2.pdf>

Melinacidin-producing Acrostalagmus luteoalbus, a major constituent of mixed mycobiota contaminating insulation material in an outdoor wall

Andersson, Maria A.; Salo, Johanna; Mikkola, Raimo; Marik, Tamas; Kredics, Laszlo; **Kurnitski, Jarek**; Salonen, Heidi Pathogens 2021 / art. 843 <https://doi.org/10.3390/pathogens10070843> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Methodological approach to determining the effect of parallel energy consumption on district heating system

Latõšov, Eduard; Volkova, Anna; Siirde, Andres; Kurnitski, Jarek; Thalfeldt, Martin Environmental and Climate Technologies 2017 / p. 5-14 : ill <https://doi.org/10.1515/rtuect-2017-0001> Journal metrics at Scopus Article at Scopus

Methodology for determining fenestration ranges for daylight and energy efficiency in Estonia

De Luca, Francesco; Dogan, Timur; Kurnitski, Jarek 2018 Proceedings of the symposium on simulation for architecture and urban design 2018 / p. 63–70 : ill <http://www.simaud.org/proceedings/>

Mida tuleb teha energiakriisist väljumiseks? [Võrguväljaanne]

Kurnitski, Jarek postimees.ee 2022 [Mida tuleb teha energiakriisist väljumiseks?](#)

Miks kodus nii palav on?

Kivi, Krister Postimees 2023 / Lk. 10-11 [Miks kodus nii palav on?](#)

Miks mõnusa sisekliimaga tegeleda?

Kurnitski, Jarek Äripäev 2019 / Lk. 12 https://www.ester.ee/record=b1071975*est

Millega tegeleb Eesti tippteadus 2023. aastani?

Aljas, Riin; Kurnitski, Jarek Eesti Päevaleht 2016 / lk. 4-5 https://artiklid.elnet.ee/record=b2757421*est
<https://epi.delfi.ee/artikkel/73671531/millega-tegeleb-estti-tipp-teadus-2023-aastani>

Millises korterelamus on kõige väiksemad kulud? Tulemus on üllatuslik

Kröönström, Kristiina pealinn.ee 2024 [Millises korterelamus on kõige väiksemad kulud? Tulemus on üllatuslik](#)

Mis on liginullenergiaülikooli hind?

Kurnitski, Jarek; Sarv, Mari Öö ehitusleht.ee 2024 <https://ehitusleht.ee/mis-on-liginullenergiaulikooli-hind/>

Mis on liginullenergiaülikooli hind?

Sarv, Mari Öö Mente et Manu 2024 / lk. 22-23 : ill https://www.ester.ee/record=b1242496*est

Mis on tõhusam - renoveerida olemasolev ventilatsioon või paigaldada uus?

kinnisvarauudised.ee 2023 [Mis on tõhusam - renoveerida olemasolev ventilatsioon või paigaldada uus?](#)

Missuguses korterelamus on kõige väiksemad kulud?

Kurnitski, Jarek postimees.ee 2024 [Missuguses korterelamus on kõige väiksemad kulud?](#)

Mister energiatehokkuus lähtee vetämään professuuria ja nollaenergiահankkeita Viroon : Jarek Kurnitskin ura huipentuu professuuriin - Tallinnassa

Kurnitski, Jarek; Heikkinen, Heikki Talotekniikka 2012 / s. 8-11 : photo

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

Modeling the impact of indoor relative humidity on the infection risk of five respiratory airborne viruses

Aganovic, Amar; Bi, Yang; Cao, Guangyu; Kurnitski, Jarek; Wargocki, Pawel Scientific reports 2022 / art. 11481, 10 p. : ill <https://doi.org/10.1038/s41598-022-15703-8> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modelling of odour dispersion from multiple point sources

Palmiste, Ülar; Kurnitski, Jarek; Laanearu, Janek IX International Symposium on Stratified Flows : abstracts 2022 / p. 77 https://www.dropbox.com/s/em57tmgs3ivcv5a/Abstract_book_Opt.pdf?dl=0

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

Moisture convection performance of external walls and roofs

Kalamees, Targo; Kurnitski, Jarek Journal of building physics 2010 / 3, p. 225-247 <https://journals.sagepub.com/doi/10.1177/1744259109343502>

Moisture convection performance of wall and attic floor joint

Kalamees, Targo; Kurnitski, Jarek Proceedings of the 8th Symposium on Building Physics in the Nordic Countries : Copenhagen, Denmark, June 16-18, 2008. 2 2008 / p. 777-784 https://www.researchgate.net/publication/228777811_Moisture_convection_performance_of_wall_and_attic_floor_joint

Moisture convection performance on the joint of external wall and attic floor - laboratory tests and two-dimensional simulation model validation : [abstract] [Electronic resource]

Kalamees, Targo; Kurnitski, Jarek Proceedings of Clima 2007 WellBeing Indoors : 10-14 June 2007, Helsinki, Finland 2007 / p. 286 [CD-ROM]

https://www.researchgate.net/publication/228890901_Moisture_convection_performance_on_the_joint_of_external_wall_and_attic_floor-laboratory_tests_and_two-dimensional_simulation_model_validation

Moisture convection performance on the joint of external wall and attic floor - laboratory tests and two-dimensional simulation model validation [Electronic resource]

Kalamees, Targo; Kurnitski, Jarek Proceedings of Clima 2007 WellBeing Indoors : 10-14 June 2007, Helsinki, Finland 2007 / [CD-ROM] https://www.researchgate.net/publication/228890901_Moisture_convection_performance_on_the_joint_of_external_wall_and_attic_floor-laboratory_tests_and_two-dimensional_simulation_model_validation

Moisture dry-out from steel faced insulated sandwich panels

Kalbe, Kristo; Piikov, Hubert; Kurnitski, Jarek; Kalamees, Targo E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 17007, 8 p. : ill <https://doi.org/10.1051/e3sconf/202017217007> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Moisture supply in heavyweight detached houses

Salminen, Kati; Korpi, Minna; Salminen, Mikko; Vinha, Juha; Kurnitski, Jarek; Kalamees, Targo IEA Annex 41 MOIST-ENG Working meeting : Lyon France, 25-27 October 2006 2006 / [10] p

Monthly domestic hot water profiles for energy calculation in Finnish apartment buildings

Ahmed, Kaiser; Pylsy, Petri; Kurnitski, Jarek Energy and buildings 2015 / 77-85 : ill <https://doi.org/10.1016/j.enbuild.2015.03.051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mõne aasta pärast tuleb kõigile uutele majadele paigaldada päikesepaneelid

Pärli, Merilin err.ee 2024 [Mõne aasta pärast tuleb kõigile uutele majadele paigaldada päikesepaneelid](#)

Mäng eludega ehituses

Kurnitski, Jarek Postimees 2013 / lk. 13 <https://www.postimees.ee/2608318/jarek-kurnitski-mang-eludega-ehituses>

Märgatav kokkuhoid: targem soojuspumba kasutamine säästab rahakotti ja loodust

maaleht.delfi.ee 2024 [Märgatav kokkuhoid: targem soojuspumba kasutamine säästab rahakotti ja loodust](#)

Märkmeid Ehitusinseneride Liidu esinduskogult : [kokkuvõte ka professor Jarek Kurnitski kõnest]

Inseneeria 2017 / lk. 70-71 : ill http://www.ester.ee/record=b2336521*est https://artiklid.elnet.ee/record=b2818091*est

Nakatumise mõistatus selgineb. Oluline on ventilatsioon

Kurnitski, Jarek Eesti Päevaleht 2020 / Lk. 2-3 : ill <https://dea.digar.ee/article/eestipaevaleht/2020/07/14/5.1>

National methods fail to calculate standardized deep renovation concepts for dwellings: Benchmarking in three EU climates

Võsa, Karl-Villem; Kurnitski, Jarek; Felsmann, Clemens; Meinsenbach, Andrea; Carli, Michele De; Tonon, Massimo; Iivonen, Mikko E3S Web of Conferences : 11th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, IAQVE C2023 2023 / art. 04014, 8 p.: ill <https://doi.org/10.1051/e3sconf/202339604014> [Journal metrics at Scopus](#) [Article at Scopus](#)

Nearby use of renewable energy sources - an alternative for on-site production

Kurnitski, Jarek The REHVA European HVAC journal 2013 / p. 11-12 : ill

Nearby use of renewable energy sources – an alternative for on-site production

Kurnitski, Jarek World Sustainable Energy Days 2014. European Nearly Zero Energy Buildings Conference : February 27-28, Wels, Austria 2014 / [7] p. : ill

Nearly zero energy buildings nZEB : [editorial]

Kurnitski, Jarek The REHVA European HVAC journal 2011 / p. 4 : photo

Nearly Zero Energy hotels

Buso, Tiziana; Kurnitski, Jarek; Corngnati, Stefano Paolo; Litiu, Andrei; Derjanecz, Anita The REHVA European HVAC journal 2014 / p. 7-11 : ill

Nearly zero energy (nZEB) regulation progress in Europe

Kurnitski, Jarek Second International Conference on Energy and Indoor Environment for Hot Climates : Outdoor Cooling Technologies, Challenges, and Opportunities for the Hot Climates : February 26th - 27th, 2017, Doha, Qatar 2017 / p. 9

Nearly zero energy office building without conventional heating

Thalfeldt, Martin; Kurnitski, Jarek; Mikola, Alo Estonian journal of engineering 2013 / p. 309-328 : ill

<https://doi.org/10.3176/eng.2013.4.06> [Article at Scopus](#)

Nearly zero energy renovation concepts for apartment buildings

Kuusk, Kalle; Naumann, Jens; Gritzki, Anina; Felsmann, Clemens; De Carli, Michele; **Kurnitski, Jarek** E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 18009,

<https://doi.org/10.1051/e3sconf/202017218009> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Nearly zero energy wooden buildings : day-care centres from NERO project

Kuusk, Kalle; Kaiser, Ahmed; Lolli, Nicola; Jan, Johansson; Hasu, Tero; Gunnarshaig Lien, Anne; **Arumägi, Endrik; Kalbe, Kristo; Hallik, Jaanus; Kurnitski, Jarek; Kalamees, Targo** Proceedings of the I Forum Wood Building Baltic, 2019 : [27.02-1.03.2019, Tallinn] 2019 / p. 54-55 : ill https://www.ester.ee/record=b5197207*est

Nearly zero-energy building's (nZEB) definitions and assessment boundaries

Kurnitski, Jarek Cost optimal and nearly zero-energy buildings (nZEB) : definitions, calculation principles and case studies 2013 / p. 7-30 : ill https://doi.org/10.1007/978-1-4471-5610-9_2 [Article collection metrics at Scopus](#) [Article at Scopus](#)

New book on nearly zero energy buildings (nZEB) by Jarek Kurnitski, editor

Kurnitski, Jarek The REHVA European HVAC journal 2014 / p. 66 : ill

New dose-response model and SARS-CoV-2 quanta emission rates for calculating the long-range airborne infection risk

Aganovic, Amar; Cao, Guangyu; **Kurnitski, Jarek;** Wargocki, Pawel Building and environment 2023 / art. 109924, 13 p. : ill

<https://doi.org/10.1016/j.buildenv.2022.109924> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New equation for optimal insulation dependency on the climate for office buildings

Ahmed, Kaiser; **Kurnitski, Jarek** Energies 2021 / art. 321 <https://doi.org/10.3390/en14020321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New higher order Haar wavelet method : application to FGM structures

Majak, Jüri; Pohlak, Meelis; Karjust, Kristo; Eerme, Martin; Kurnitski, Jarek; Shvartsman, Boris Composite Structures 2018 / p. 72–78 : tab <https://doi.org/10.1016/j.compstruct.2018.06.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A new method for contrasting energy performance and near-zero energy building requirements in different climates and countries

Kurnitski, Jarek Energies 2018 / art. 1334, 22 p. : ill <https://doi.org/10.3390/en11061334> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New public buildings must be built with emergency shelters

Lanreido, I.; Jet, Olga news.err.ee 2024 [New public buildings must be built with emergency shelters](#)

New typical meteorological year generation method based on long-term building energy simulations

Seyed Salehi, Seyed Shahabaldin; Kalamees, Targo; Kurnitski, Jarek; Thalfeldt, Martin Building and environment 2024 / art. 111504 <https://doi.org/10.1016/j.buildenv.2024.111504>

A novel method for calculating heat emitter and controller configuration setpoint variations with EN15316-2

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek Journal of building engineering 2020 / art. 101387 <https://doi.org/10.1016/j.jobe.2020.101387> <https://aaltodoc.aalto.fi/handle/123456789/43872> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel workflow for early design stages to ensure daylight and summer thermal comfort in buildings = Uudne töövoog projekteerimise algfaasis, et tagada päevavalgus ja suvine soojusmugavus hoonetes

Sepulveda Luque, Abel 2022 <https://doi.org/10.23658/taltech.34/2022> <https://digikogu.taltech.ee/et/Item/9d383d7b-f702-490a-a054-bbdf238e402> https://www.ester.ee/record=b5503220*est

NZEB and market-based renovation case study of an existing office building

Kuivjõgi, Helena; Kurnitski, Jarek; Uutar, Aivar; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 05002, 7 p. : ill <https://doi.org/10.1051/e3sconf/202124605002> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

nZEB case studies

Kurnitski, Jarek; Achermann, Matthias Cost optimal and nearly zero-energy buildings (nZEB) : definitions, calculation principles and case studies 2013 / p. 135-176 : ill https://doi.org/10.1007/978-1-4471-5610-9_8 [Article collection metrics at Scopus](#) [Article at Scopus](#)

nZEB definitions in Europe

Kurnitski, Jarek; Buso, Tiziana; Corgnati, Stefano Paolo; Derjanecz, Anita; Litiu, Andrei The REHVA European HVAC journal 2014 / p. 6-9 : ill

nZEB energy performance comparison in different climates and countries

Kurnitski, Jarek Heat pumping technologies magazine 2017 / p. 31-37 : ill
https://issuu.com/hptmagazine/docs/hpt_20magazine_no3_2017?e=24860023/55068660

NZEB energy performance requirements in four countries vs. European commission recommendations

Kurnitski, Jarek; Ahmed, Kaiser; Hasu, Tero; **Kalamees, Targo** Proceedings of the REHVA Annual Meeting Conference Low Carbon Technologies in HVAC : 23 April 2018, Brussels, Belgium 2018 / 8 p. : ill
<https://www.rehva2018atic.eu/images/workshops/4/Kurnitski.pdf>

nZEB office building : Ympäristötalo in Helsinki, Finland

Kurnitski, Jarek The REHVA European HVAC journal 2012 / p. 44-49 : ill <https://www.rehva.eu/rehva-journal/chapter/nzeb-office-building-ympaeristoetalo-in-helsinki-finland>

NZEB requirements in Nordic countries

Kurnitski, Jarek The REHVA European HVAC journal 2019 / p. 8-12 : ill <https://www.rehva.eu/rehva-journal/chapter/nzeb-requirements-in-nordic-countries>

NZEB Requirements vs European Benchmarks in Residential Buildings

Simson, Raimo; Thomsen, Kirsten Engelund; Wittchen, Kim Bjarne; **Kurnitski, Jarek** REHVA European HVAC Journal 2021 / p. 40-44 : ill <https://www.rehva.eu/rehva-journal/chapter/nzeb-requirements-vs-european-benchmarks-in-residential-buildings>

nZEB technical definition for nearly zero energy buildings

Kurnitski, Jarek Liginullenergiahooned täna ja homme : artiklite kogumik 2015 / p. 91-96 : ill

Nõuded liginullenergiahoonetele Euroopas

Kurnitski, Jarek Liginullenergiahooned täna ja homme : artiklite kogumik 2015 / lk. 45-51 : kaart

Nõudkem puhast õhku

Kurnitski, Jarek Postimees 2021 / Lk. 12 <https://dea.digar.ee/article/postimees/2021/05/17/13.4>

Occupancy schedules for energy simulation in new prEN16798-1 and ISO/FDIS 17772-1 standards

Ahmed, Kaiser; Akhondzada, Ali; **Kurnitski, Jarek;** Olesen, Bjarne Sustainable cities and society 2017 / p. 134-144 : ill
<https://doi.org/10.1016/j.scs.2017.07.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Office building tenants' electricity use model for building performance simulations

Ferrantelli, Andrea; Kuivjõgi, Helena; **Kurnitski, Jarek;** Thalfeldt, Martin Energies 2020 / art. 5541
<https://doi.org/10.3390/en13215541> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Old dry mold growth seems to emit less bioactive metabolites and surfactants than actively growing microbes

Andersson, Maria A.; Marik, Tamas; Kredics, Laszlo; Salonen, Heidi; **Kurnitski, Jarek** Sisäilmastoseminaari 2019 : 14.3.2019 2019 / p. 215-220 : ill https://www.sisailmauutiset.fi/Sisailmastoseminaari_2019.pdf

Online questionnaire as a tool to assess symptoms and perceived indoor air quality in a school environment

Järvi, Kati; Vornanen-Winqvist, Camilla; Mikkola, Raimo; **Kurnitski, Jarek;** Salonen, Heidi Atmosphere 2018 / art. 270, p. 1-20 : ill
<https://doi.org/10.3390/atmos9070270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimal PI control parameters for accurate underfloor heating temperature control

Kull, Tuule Mall; Thalfeldt, Martin; **Kurnitski, Jarek** E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 01081, 8 p. : ill <https://doi.org/10.1051/e3sconf/201911101081> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Optimization of radiators, underfloor and ceiling heater towards the definition of a reference ideal heater for energy efficient buildings

Ferrantelli, Andrea; Vösa, Karl-Villem; **Kurnitski, Jarek** Applied sciences 2018 / art. 2477, 22 p. : ill
<https://doi.org/10.3390/app8122477> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimized energy scheduling of residential DC building: Case of Nordic climate

Sidorova, Aleksandra; Blinov, Andrei; Ahmadihangar, Roya; Vinnikov, Dmitri; Vösa, 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>

Optimizing size and economic feasibility assessment of photovoltaic and energy storage setup in residential applications

Nourollahi Hokmabad, Hossein; Husev, Oleksandr; **Kurnitski, Jarek;** Belikov, Juri Sustainable energy, grids and networks

2024 / art. 101385, 15 p. : ill <https://doi.org/10.1016/j.segan.2024.101385> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overheating and air velocities in modern office buildings during heating season

Kiil, Martin; Simson, Raimo; Thalfeldt, Martin; Kurnitski, Jarek Indoor air 2024 / art. 992937, 20 p.
<https://doi.org/10.1155/2024/9992937>

Overheating and daylighting evaluation for free-running classroom designs

Kiil, Martin; Simson, Raimo; De Luca, Francesco; Thalfeldt, Martin; Kurnitski, Jarek IOP conference series : earth and environmental science 2019 / art. 012059, 7 p. : ill <https://doi.org/10.1088/1755-1315/352/1/012059> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Overheating prevention and daylighting in buildings without mechanical cooling = Ülekuumenemise vältimine ja loomuliku valguse tagamine mehaanilise jahutuseeta hoonetes

Simson, Raimo 2019 <https://digikogu.taltech.ee/et/Item/1bbdb4ba-33ef-4596-a0bd-dcb6653bc81a>

Overview and future challenges of nearly zero-energy building (nZEB) design in Eastern Europe

Attia, Shady; Kurnitski, Jarek; Kosin, Piotr; Borodinecs, Anatolijs; Belafi, Zsolt; Deme, Istvan; Kistelegdi, Krstic, Hrvoje; Moldovan, Macedon; Visa, Ion; Mihailov, Nicolay Energy and buildings 2022 / art. 112165 <https://doi.org/10.1016/j.enbuild.2022.112165> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Painesuhteet pientalossa

Kalamees, Targo; Kurnitski, Jarek; Jokisalo, Juha; Vinha, Juha Sisäilmastoseminaari 2007 2007 / s. 259-264

Paneelmaja renoveerimine suuri tegijaid ei tõmba

Rajavee, Allan; Kurnitski, Jarek Äripäev 2019 / lk. 6-7

Paneelmajade tulevik - kas tume, helge või hall? Kas rahaliselt jõukohased kodud on elamiseks ohtlikud või mitte?

Aasmäe, Hardo; Kurnitski, Jarek Inseneria 2014 / lk. 18-22 : ill https://artiklid.elnet.ee/record=b2678050*est

A paradigm shift to combat indoor respiratory infection

Morawska, Lidia; Allen, Joseph; Bahnfleth, William; Bluysen, Philomena M.; Boerstra, Atze; Buonanno, Giorgio; Cao, Junji; Dancer, Stephanie J.; Floto, Andres; Kurnitski, Jarek Science 2021 / p. 689-691 <https://doi.org/10.1126/science.abg2025>

Parametric study for the long term energetic performance of geothermal energy piles

Ferrantelli, Andrea; Fadejev, Jevgeni; Kurnitski, Jarek IOP conference series : earth and environmental science 2019 / art. 012047, 9 p. : ill <https://doi.org/10.1088/1755-1315/352/1/012011> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Parima energiatõhususega uued liginullenergiahooned on Eestis

Ehitaja 2020 / lk. 7 : fot http://www.ester.ee/record=b1072123*est

PCSP's diagonal tie connectors thermal bridges impact on energy performance and operational cost : case study of a high-rise residential building in Estonia

Kiil, Martin; Käärid, Martin-Sven; Klõšeiko, Paul; Võsa, Karl-Villem; Simson, Raimo; Sarevet, Henri; Thalfeldt, Martin; Kurnitski, Jarek E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 80060, 8 p. : ill <https://doi.org/10.1051/e3sconf/202017208006> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Penicillium expansum strain isolated from indoor building material was able to grow on gypsum board and emitted guttation droplets containing chaetoglobosins and communesins A, B and D

Salo, Johanna; Marik, Tamas; Mikkola, M.; Kurnitski, Jarek Journal of applied microbiology 2019 / p. 1135-1147 : ill <https://doi.org/10.1111/jam.14369> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance based core sustainability metrics for university campuses developing towards climate neutrality : a robust PICSO framework

Jiang, Qidi; Kurnitski, Jarek Sustainable cities and society 2023 / art. 104723 <https://doi.org/10.1016/j.scs.2023.104723> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

PI parameter influence on underfloor heating energy consumption and setpoint tracking in nZEBs

Kull, Tuule Mall; Thalfeldt, Martin; Kurnitski, Jarek Energies 2020 / art. 2068, 20 p. : ill <https://doi.org/10.3390/en13082068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pientalojen vuotoilmanvaihtuvuuden arviointimenetelmä Suomen olosuhteisiin

Jokisalo, Juha; Kurnitski, Jarek; Kalamees, Targo; Eskola, Lari; Jokiranta, Kai; Korpi, Minna; Vinha, Juha Sisäilmastoseminaari 2008 : 05.03.2008 2008 / s. 165-170 <https://research.aalto.fi/en/publications/pientalojen-vuotoilmanvaihtuvuuden-arviointimenetelm%C3%A4-suomen-olos>

Point source ventilation effectiveness of mixing ventilation solutions used in non-residential settings

Kiil, Martin; Mikola, Alo; Vösa, Karl-Villem; Simson, Raimo; Kurnitski, Jarek Proceedings, Indoor Air 2024 2024 / 8 p
https://www.isiaq.org/conference_proceedings.php

Positive pressure effect on moisture performance in a school building

Ferrantelli, Andrea; Vornanen-Winqvist, Camilla; Mattila, Milla; Salonen, Heidi; Kurnitski, Jarek Journal of building physics 2019 / p. 121-142 : ill <https://doi.org/10.1177/1744259119837144> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Post-COVID ventilation design : infection risk-based target ventilation rates and point source ventilation effectiveness

Kurnitski, Jarek; Kiil, Martin; Mikola, Alo; Vösa, Karl-Villem; Aganovic, Amar; Schild, Peter G.; Seppänen, Olli Energy and buildings 2023 / art. 113386 <https://doi.org/10.1016/j.enbuild.2023.113386> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Potential effects of permeable and hygroscopic lightweight structures on thermal comfort and perceived IAQ in a cold climate

Kurnitski, Jarek; Kalamees, Targo; Palonen, J.; Eskola, Lari; Seppänen, Olli Indoor air 2007 / 1, p. 37-49
<https://pubmed.ncbi.nlm.nih.gov/17257151/>

The potential of HVAC systems and building envelope on the indoor climate stability in lightweight detached houses

Kalamees, Targo; Vinha, Juha; Kurnitski, Jarek IEA Annex 41 MOIST-ENG Working meeting : Lyon France, 25-27 October 2006 2006 / [12] p

Practical indicators for risk of airborne transmission in shared indoor environments and their application to COVID-19 outbreaks

Peng, Zhang; Pineda Rojas, Andrea L.; Kropff, Emilio; Kurnitski, Jarek Environmental science & technology 2022 / p. 1125-1137
<https://doi.org/10.1021/acs.est.1c06531> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preface

Kurnitski, Jarek Cost Optimal and Nearly Zero-Energy Buildings (nZEB) 2013 / p. v-vi <https://link.springer.com/book/10.1007/978-1-4471-5610-9> [Article collection metrics at Scopus](#) [Article at Scopus](#)

Preface to "Energy and technical building systems - scientific and technological advances"

Ferrantelli, Andrea; Kurnitski, Jarek Energy and technical building systems - scientific and technological advances 2020 / p. IX
<https://doi.org/10.3390/books978-3-03928-179-4>

Present energy performance requirements and nZEB targets in some selected countries

Kurnitski, Jarek; Feldmann, Christian Cost optimal and nearly zero-energy buildings (nZEB) : definitions, calculation principles and case studies 2013 / p. 31-46 : ill https://doi.org/10.1007/978-1-4471-5610-9_3 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Primary energy balance driven integrated energy design process of positive energy building

Tamm, Meril; Ortiz, Joana; Pascual, Jordi; Kurnitski, Jarek; Thalfeldt, Martin; Salom, Jaume E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 13001, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124613001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Primary energy factor for district heating networks in European Union member states

Latõšov, Eduard; Volkova, Anna; Siirde, Andres; Kurnitski, Jarek; Thalfeldt, Martin Energy procedia 2017 / p. 69-77 : ill <https://doi.org/10.1016/j.egypro.2017.05.056> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Primary energy factors for different district heating networks: an Estonian example

Latõšov, Eduard; Kurnitski, Jarek; Thalfeldt, Martin; Volkova, Anna Energy procedia 2016 / p. 674-684 : ill <https://doi.org/10.1016/j.egypro.2016.09.126> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Professor : liiga kuiv õhk võib teha meid viirustele tundlikumaks [Võrguväljaanne]

Kurnitski, Jarek novaator.err.ee 2020 / video [Professor: liiga kuiv õhk võib teha meid viirustele tundlikumaks](#)

Professor Kurnitski : insener kui teadlane ja eriala edendaja : TTÜ hoonete energiatõhususe ja sisekliima professori Jarek Kurnitski aastapäevakõne Tallinna tehnikaülikooli 98. aastapäeva aktusel

Kurnitski, Jarek Mente et Manu 2016 / lk. 20-24 : fot http://www.ttu.ee/public/u/ulikool/Tutvustus/ajaleht-mente-et-manu/MM_2016_06/index.html https://artiklid.elnet.ee/record=b2804604*est

Professor Kurnitski: uus energiatõhususe raamistik toob ehitussektoris nii väljakutseid kui võimalusi

Kurnitski, Jarek ehitusleht.ee 2025 <https://ehitusleht.ee/professor-kurnitski-uus-energiatõhususe-raamistik-toob-ehitussektoris-nii-valjakutseid-kui-voimalusi/>

Professor: liiga palavaks köetud tuba tekitab tervisehädasid

Kurnitski, Jarek novaator.err.ee 2024 [Professor: liiga palavaks köetud tuba tekitab tervisehädasid](#)

Professor: Overheating rooms a source of health problems

Sildvee, Reimo; **Kurnitski, Jarek** err.ee 2024 [Professor: Overheating rooms a source of health problems](#)

Professor: Ühiskond survestab tugevalt Tallinna tehnikaülikooli suunda muutma

Kurnitski, Jarek epl.delfi.ee 2024 [Professor: Ühiskond survestab tugevalt Tallinna tehnikaülikooli suunda muutma](#)

Progress with national nZEB applications in the EU

Kurnitski, Jarek Advanced HVAC and Natural Gas Technologies : REHVA Annual Meeting & Conference 2015 with special student sessions on "Advanced HVAC and Natural Gas Technologies" : 06–09 May, 2015, Riga, Latvia 2015 / [1] p

Puurunkoisten pientalojen koetsus- ja lämpötilaolosuhteet, ilmanvaihto ja ilmatiiviys

Vinha, Juha; Korpi, Minna; **Kalamees, Targo**; Eskola, Lari; Palonen, J.; **Kurnitski, Jarek**; Valovirta, I.; Mikkilä, A.; Jokisalo, Juha 2005

Põhjamaade energiasäästlikemad hooned asuvad Eestis

Imeline Teadus 2020 / lk. 21 : fot https://www.ester.ee/record=b2747925*est

QUALICHeCK overview of EPC compliance and quality issues on the ground

Kurnitski, Jarek; Kuusk, Kalle; Simson, Raimo The REHVA European HVAC journal 2016 / p. 25-28 : ill <http://www.rehva.eu/publications-and-resources/rehva-journal/2016/052016/042016.html>

A qualitative control approach to reduce energy costs of hybrid energy systems : utilizing energy price and weather data

Taebnia, Mehdi; Heikkilä, Marko; **Kurnitski, Jarek** Energies 2020 / art. 1401, 17 p. : ill <https://doi.org/10.3390/en13061401> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A quanta-independent approach for the assessment of strategies to reduce the risk of airborne infection

Aganovic, Amar; **Kurnitski, Jarek**; Wargocki, Pawel Science of the total environment 2024 / art. 172278 <https://doi.org/10.1016/j.scitotenv.2024.172278>

Quantification of economic benefits of renovation of apartment buildings as a basis for cost optimal 2030 energy efficiency strategies

Pikas, Ergo; Kurnitski, Jarek; Liias, Roode; Thalfeldt, Martin Energy and buildings 2015 / p. 151-160 : ill <https://doi.org/10.1016/j.enbuild.2014.10.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quantification of environmental and economic impacts for main categories of building labeling schemes

Seinre, Erkki; Kurnitski, Jarek; Voll, Hendrik Energy and buildings 2014 / p. 145-158 : ill <https://doi.org/10.1016/j.enbuild.2013.11.048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quantification of environmental and economic impacts in building sustainability assessment = Keskkondlike ja majanduslike mõjude kvantifitseerimine hoonete jätkusuutlikkuse hindamisel

Seinre, Erkki 2015 https://www.ester.ee/record=b4453547*est

Quantitative carbon emission prediction model to limit embodied carbon from major building materials in multi-story buildings

Xie, Qimiao; **Jiang, Qidi; Kurnitski, Jarek**; Yang, Jiahang; Lin, Zihao; Ye, Shiqi Sustainability 2024 / art. 5575 <https://doi.org/10.3390/su16135575> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Radiant panel and air heating performance in large industrial buildings

Ahmed, Kaiser; Sistonen, Esko; **Simson, Raimo; Kurnitski, Jarek**; Kesti, Jyrki; Lautso, Petteri Building simulation 2018 / p. 293-303 : ill <https://doi.org/10.1007/s12273-017-0414-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Radiator and floor heating operative temperature and temperature variation corrections for EN 15316-2 heat emission standard

Maivel, Mikk; Kurnitski, Jarek Energy and buildings 2015 / p. 204-213 : ill <https://doi.org/10.1016/j.enbuild.2015.04.021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Radooniohu vähendamise lahendused olemasolevatele ja uutele hoonetele = Guidance for radon-protective measures for new and existing buildings [Võrguväljaanne]

Kalamees, Targo; Alev, Üllar; Thalfeldt, Martin; Varda, Kadi; Kurnitski, Jarek 2015

Rahvusraamatukogu uus algus

Leet, Lauri Ehitaja 2019 / lk. 12-14 : fot http://www.ester.ee/record=b1072123*est

Rakennusten energiatehokkuusdirektiiviä tukevat uusitut CEN standardit

Kurnitski, Jarek Rakennusten energiaseminaari 2014 2014 / s. 24-25

Redefining cost-optimal nZEB levels for new residential buildings

Simson, Raimo; Arumägi, Endrik; Kuusk, Kalle; Kurnitski, Jarek E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 03035, 7 p. : ill <https://doi.org/10.1051/e3sconf/201911103035> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Reeglid muutuvad - riik hakkab korrapärast renoveerimisturgu

Remmelg, Teeli Ehitaja 2024 / lk. 18-20 : fot., portr https://www.ester.ee/record=b1072123*est

REHVA - EUROVENT seminar discussed the reviews of directives, inclusion of indoor climate and situation with national nZEB as main topics

Kurnitski, Jarek The REHVA European HVAC journal 2016 / p. 66-68 : ill <http://www.rehva.eu/publications-and-resources/rehva-journal/2016/062016.html>

REHVA - EUROVENT seminar keskendus energiatõhususele

Kurnitski, Jarek EhitusEST 2016 / lk. 28 http://www.ester.ee/record=b4442657*est https://artiklid.elnet.ee/record=b2808213*est

REHVA COVID-19 guidance document : [Version April 3, 2020]

Kurnitski, Jarek; Boerstra, Atze; Franchimon, Francesco The REHVA European HVAC Journal 2020 / p. 55–65 : ill https://www.rehva.eu/rehva-journal/detail?tx_wbjournals_journaldetail%5Baction%5D=download&tx_wbjournals_journaldetail%5Bcontroller%5D=Journal&tx_wbjournals_journaldetail%5Bjournal%5D=67&cHash=aaf8ba678c531e077d4db71224c3882c <https://www.rehva.eu/activities/covid-19-guidance>

REHVA nZEB Task Force buildings - renewable energy contribution and open nZEB issues

Kurnitski, Jarek European Heat Pump Association EHPA Expert Workshop on Nearly Zero Energy buildings (nZEB) : May 27, 2015 Brussels 2015

REHVA nZEB technical definition and system boundaries for nearly zero energy buildings

Kurnitski, Jarek Proceedings of CLIMA 2013 : 11th REHVA World Congress and the 8th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, Prague 16th-19th June, 2013 2013 / [10] p. : ill

REHVA nZEB technical definition and system boundaries for nearly zero energy buildings : 2013 revision for uniformed national implementation of EPBD recast prepared in cooperation with European standardization organization CEN 2013

REHVA position paper on the European Commission proposal of the revised Energy performance of buildings directive COM(2016)0765

Corgnati, Stefano; **Kurnitski, Jarek** The REHVA European HVAC journal 2017 / p. 48-51 http://www.rehva.eu/fileadmin/REHVA_Journal/REHVA_Journal_2017/RJ2/p.48/48-50_RJ1702_WEB.pdf

REHVA Task Forces - backbone of the REHVA Technical activities

Railio, Jorma; **Kurnitski, Jarek; Mazzarella, Livio** The REHVA European HVAC journal 2013 / p. 65-68

REHVA-EUROVENT-seminaarini pääteemoina olivat direktiivien uusinta ja lähes nollaenergiarakennukset

Kurnitski, Jarek Talotekniikka 2016 / s. 53 : kuv

Rekonstrueerimise olevik ja tulevik - millised on uued lahendused? = Настоящее и будущее реконструкции : какие есть новые решения?

Kurnitski, Jarek Elamu 2020 / lk. 10-11, 34-35 : fot https://www.ester.ee/record=b1072137*est

Rektoriks pürgiv Kurnitski tahab tugevdada tehnikaülikooli sidet majandusega [Võrguväljaanne]

Kurnitski, Jarek novaator.err.ee 2020 / fot [Rektoriks pürgiv Kurnitski tahab tugevdada tehnikaülikooli sidet majandusega](#)

Relative humidity effects on viruses and human responses

Kurnitski, Jarek; Wargocki, Pawel; Aganovic, Amar The REHVA European HVAC journal 2021 / p. 7-12 <https://www.rehva.eu/rehva-journal/chapter/relative-humidity-effects-on-viruses-and-human-responses>

Relevance of renewable energy ratio indicator in describing nZEB performance

Thalfeldt, Martin; Kurnitski, Jarek; Gräslund, Jonas; Kempe, Per; Verwer, Jeroen CLIMA 2016 - proceedings of the 12th REHVA World Congress. Vol. 6 2016 / [10] p. : ill

Renewables in NZEB office and school buildings

Kurnitski, Jarek World Sustainable Energy Days 2015 : Energy-Efficient Commercial Buildings Conference : 25-27 February 2015, Wels, Austria 2015

Renovation of ventilation in apartment buildings - Estonian experience

Mikola, Alo; Kuusk, Kalle; Hamburg, Anti; Kurnitski, Jarek; Kalamees, Targo The REHVA European HVAC journal 2019 / p. 20-26 : ill <https://www.rehva.eu/rehva-journal/chapter/renovation-of-ventilation-in-apartment-buildings-estonian-experience>

Renovation results of Finnish single-family renovation subsidies : oil boiler replacement with heat pumps

Sankelo, Paula; Ahmed, Kaiser; **Mikola, Alo; Kurnitski, Jarek** Energies 2022 / art. 7620 <https://doi.org/10.3390/en15207620> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Renoveerimata lasteasutustes teeb muret koroonat soodustav vilets ventilatsioon [Võrguväljaanne]

Pärli, Merilin err.ee 2021 / fot [Renoveerimata lasteasutustes teeb muret koroonat soodustav vilets ventilatsioon](#)

Renoveerimislahest tekkinud furoor on liast? Eksperdi hinnangul vajaks tempo sootuks tõstmist

Kaaver, Krista arileht.delfi.ee 2023 [Renoveerimislahest tekkinud furoor on liast? Eksperdi hinnangul vajaks tempo sootuks tõstmist](#)

Renoveerimistoetuste nappus võib kannustada elanike jõukuspõhist eraldumist

Piir, Rait novaator.err.ee 2023

Renoveeritud paneelmajade elanikud peavad arvestama kopsaka remondilaenuga

Kröönström, Kristiina pealinn.ee 2024 [Renoveeritud paneelmajade elanikud peavad arvestama kopsaka remondilaenuga](#)

A research project on the temperature and humidity conditions, ventilation and airtightness of Finnish detached houses

Vinha, Juha; Korpi, Minna; **Kalamees, Targo**; Eskola, Lari; Palonen, J.; **Kurnitski, Jarek**; Valovirta, I.; Mikkilä, A.; Jokisalo, Juha Final report of the IEA Annex 41 Whole Building Heat Air and Moisture Response - Subtask 3 : Boundary Conditions and Whole Building HAM Analysis 2008 / p. 157-174

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](#)

Residential heat recovery ventilation

Thalfeldt, Martin; Weele, Harry van; Toksoy, Macit; Carlsson, Thomas; Vladykova Bednarova, Petra; Seppänen, Olli 2018 <https://www.rehva.eu/eshop/detail/residential-heat-recovery-ventilation>

Residential heat recovery ventilation – European guidebook under preparation

Kurnitski, Jarek The REHVA European HVAC journal 2017 / p. 7–9 : ill <http://www.rehva.eu/publications-and-resources/rehva-journal/2017/062017/residential-heat-recovery-ventilation-european-guidebook-under-preparation.html>

Respiratory infection risk based ventilation and room conditioning design method with year-round thermal comfort control in modern office buildings

Kiil, Martin; Simson, Raimo; Vösa, Karl-Villem; Mikola, Alo; Thalfeldt, Martin; Kurnitski, Jarek E3S Web Conference: The 16th ROOMVENT Conference 2022 / art. 05008 <https://doi.org/10.1051/e3sconf/202235605008> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Respiratory infection risk-based ventilation design method

Kurnitski, Jarek; Kiil, Martin; Wargocki, Pawel; Boerstra, Atze; Seppänen, Olli; Olesen, Bjarne; Morawska, Lidia Building and environment 2021 / art. 108387, 11 p. : ill <https://doi.org/10.1016/j.buildenv.2021.108387> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Revealing Stachybotrys-like fungal growth in buildings - Possible exposure highlighted through three case studies

Hintikka, Tuomas; Andersson, Maria A.; Marik, Tamás; Mikkola, Raimo; Andersson, Magnus; Kredics, László; **Kurnitski, Jarek**; Salonen, Heidi Science of the total environment 2025 / art. 178408 <https://doi.org/10.1016/j.scitotenv.2025.178408>

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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Revision of REHVA nZEB technical definition for nearly zero energy buildings

Kurnitski, Jarek Magyar épületgepeszet 2012 / p. 14-19 : ill

Riigi toetuse saanud tippkeskused annavad Eestile uued tiivad

Uusen, Kaire Mente et Manu 2024 / lk. 38-41 https://www.ester.ee/record=b1242496*est

Rohepöörde poolt ja vastu

Kurnitski, Jarek Postimees 2023 / Lk. 13 <https://dea.digar.ee/article/postimees/2023/01/17/14.6>

Rohepöördest ja harjumuste loomulikust muutumisest

Kurnitski, Jarek Postimees 2021 / Lk. 8 <https://dea.digar.ee/article/postimees/2021/10/30/11.3>

Rohepööre tasuks ära teha ka inimtekkelise kliimamuutuset

Kurnitski, Jarek Postimees 2022 / Lk. 13 <https://dea.digar.ee/article/postimees/2022/12/01/13.8> [Rohepööre tasuks ära teha ka inimtekkelise kliimamuutuset](#)

Rohetund #38: Kümned tuhanded maakodud vajavad renoveerimist. Kuidas teha seda õigesti ja vältida vigu?

Sootpan, Ivar rohe.geenius.ee 2023 [Rohetund #38: Kümned tuhanded maakodud vajavad renoveerimist. Kuidas teha seda õigesti ja vältida vigu?](#)

Ruusutorpan koulun puhallinavuste painovoimainen ilmanvaihto

Kurnitski, Jarek; Jokiranta, Kai; Kalamees, Targo; Helenius, Tapio; Palonen, J. Sisäilmastoseminaari 2005 : Espoo, Otaniemi, Finland, 16.-17.02.2005 2005 / s. 75-80

Ruusutorpan koulun puhallinavusteinen painovoimainen ilmanvaihto (2005)

Kurnitski, Jarek; Jokiranta, Kai; Kalamees, Targo; Helenius, Tapio; Palonen, J.; Airaksinen, M. 2005

SBE16 konverentsi töi Tallinnasse üle 150 osaleja

Kurnitski, Jarek EhitusEST 2016 / lk. 34 : fot https://artiklid.elnet.ee/record=b2808220*est

Screening mold colonies by using two toxicity assays revealed indoor strains of *Aspergillus calidoustus* producing Ophiobolins G and K

Salo, Marja Johanna; Marik, Tamas; Bencsik, Ottó; Mikkola, Raimo; Kredics, Laszlo; Szekeres, András; Andersson, Maria A.; Salonen, Heidi; **Kurnitski, Jarek** Toxins 2019 / art. 683, 16 p. : ill <https://doi.org/10.3390/toxins11120683> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Seadus : saagu hoonetest energijaamad!

Kurnitski, Jarek Inseneeria 2015 / lk. 34-36, 38, 40 : ill https://artiklid.elnet.ee/record=b2720904*est

Self-learning model predictive control for dynamic activation of structural thermal mass in residential buildings

Wolisz, Henryk; **Kull, Tuule Mall; Müller, Dirk; Kurnitski, Jarek** Energy and buildings 2020 / art. 109542, 21 p. : ill <https://doi.org/10.1016/j.enbuild.2019.109542> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Setback efficiency of limited-power heating systems in cold climate

Kull, Tuule Mall; Simson, Raimo; Kurnitski, Jarek Cold Climate HVAC 2018 : Sustainable buildings in cold climates : proceedings of the 9th Cold Climate HVAC conference, Kiruna, Sweden, 2018, 12-15 March 2019 / p. 87-95 https://doi.org/10.1007/978-3-030-00662-4_8

Sisekliima, õpitulemus, tööviljakus

Kurnitski, Jarek; Murdvee, Mart 2015 http://www.ester.ee/record=b4462624*est

Sisäilmaongelmaisten koulurakennusten korjaaminen

Aalto, Minna; Asikainen, Vesa; **Kalamees, Targo; Kurnitski, Jarek** 2008 <https://research.aalto.fi/en/publications/sis%C3%A4ilmaongelmaisten-koulurakennusten-korjaaminen>

Sisäilmaongelmaisten koulurakennusten korjausratkaisujen kehittäminen

Kurnitski, Jarek; Pirinen, J.; Peltola, S.; Kalamees, Targo; Asikainen, V. Rakennusfysiikka 2007 : Tampere (Finland), 18-19.10.2007 2007 / s. 165-174

Sixth grade pupils' health and performance and indoor environmental quality in Finnish school buildings

Haverinen-Shaughnessy, Ulla; Turunen, Mari; Metsämuuronen, Jari; Palonen, Jari; Putus, Tuula; **Kurnitski, Jarek; Shaughnessy, Richard** British journal of educational research 2012 / p. 42-58 <https://journal.jesbs.com/index.php/JESBS/article/view/782>

State-subsidised refurbishment of socialist apartment buildings in Estonia

Kuusk, Kalle; Kurnitski, Jarek Housing estates in the Baltic countries : the legacy of central planning in Estonia, Latvia and Lithuania 2019 / p. 339-355 : ill https://doi.org/10.1007/978-3-030-23392-1_16 https://www.ester.ee/record=b5284229*est

Status on the ground : overview of existing surveys on energy performance related quality and compliance [Online resource]

Maivel, Mikk; Kuusk, Kalle; Simson, Raimo; Kurnitski, Jarek; Kalamees, Targo 2015 <http://qualicheck-platform.eu/wp-content/uploads/2015/06/QUALICheck-Report-Overview-of-existing-studies.pdf>

Stratification and draught measurements of ceiling panels, underfloor cooling and fan-assisted radiators

Võsa, Karl-Villem; Eist, Egert; Kurnitski, Jarek CLIMA 2022: the 14th REHVA HVAC World Congress, 22nd – 25th May in

Summer thermal comfort : compliance assessment and overheating prevention in new apartment buildings in Estonia
Simson, Raimo; Kurnitski, Jarek; Maivel, Mikk Journal of building performance simulation 2017 / p. 378-391 : ill
<https://doi.org/10.1080/19401493.2016.1248488> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Summer thermal comfort compliance assessment in apartment buildings

Simson, Raimo; Kurnitski, Jarek; Maivel, Mikk; Kalamees, Targo Healthy Buildings 2015 : Eindhoven, The Netherlands, May 18-20, 2015 [Electronic resource] 2015 / p. 1-8 : ill. [USB]

Summer thermal comfort in new and old apartment buildings

Maivel, Mikk; Kurnitski, Jarek; Kalamees, Targo Proceedings : Windsor Conference 2014 : Counting the Cost of Comfort in a Changing World : 8th Windsor Conference, International Conference, held 10th-13th April 2014, Windsor, UK 2014 / p. 42-50 : ill

Summertime overheating prevention requirements and results in Estonia

Simson, Raimo; Kurnitski, Jarek; Maivel, Mikk The REHVA European HVAC journal 2015 / p. 23-27 : ill

Surface-active thermally responsive hydrogels by emulsion sedimentation for smart window applications

Timusk, Martin; Locs, Janis; Kangur, Triin; Kasikov, Aarne; Kurnitski, Jarek; Šutka, Andris ACS applied polymer materials 2023 / p. 5937-5950 : ill <https://doi.org/10.1021/acsapm.3c00600> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sustainable Built Environment Tallinn and Helsinki Conference 2016 (SBE16) : Build Green and Renovate Deep : Tallinn, Estonia and Helsinki, Finland, 5-7 October 2016
2016

Svenska BBR slappast i Norden

Kurnitski, Jarek; Kretz, Mark; Lindholm, Ingar Energi & miljö 2013 / s. 6-7 : ill

Zonal modeling of air distribution impact on the long-range airborne transmission risk of SARS-CoV-2

Aganovic, Amar; Cao, Guangyu; Kurnitski, Jarek; Melikov, Arsen Kriko; Wargocki, Pawel Applied mathematical modelling 2022 / p. 800-821 <https://doi.org/10.1016/j.apm.2022.08.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Talotekniikalla ja automaatiolla viihtyisyyttä ja energiansäästöä

Heilä, Sampsa RIA 2014 / s. 6-12 : kuv

Taltech ehitusprofessorid: Kui tempot ei lisa, siis renoveerime oma hooneid energiatõhusaks 100 aastat

Jarne, Aivar pealinn.ee 2023 [Taltech ehitusprofessorid: Kui tempot ei lisa, siis renoveerime oma hooneid energiatõhusaks 100 aastat](#)

TalTechi uus seade: proovida võib kasvõi tanki vastupidavust

postimees.ee 2023 [TalTechi uus seade: proovida võib kasvõi tanki vastupidavust](#)

Targa hoone tehnoloogia ettevõttega Bisly liituvad tippjuht ja energiatõhususe ekspert

Sildmets, Kadri delfi.ee 2024 [Targa hoone tehnoloogia ettevõttega Bisly liituvad tippjuht ja energiatõhususe ekspertautor](#)

Targem soojuspumba kasutamine säästab rahakotti ja loodust

Targu Talita : Maalehe nõuandelisa : [ilmub koos Maalehega] 2024 / lk. 14-15 <https://dea.digar.ee/article/targutalita/2024/10/31/10.3>

Target values for indoor environment in energy-efficient design

Seppänen, Olli; Kurnitski, Jarek Cost optimal and nearly zero-energy buildings (nZEB) : definitions, calculation principles and case studies 2013 / p. 57-78 : ill

Teadlane vastab : millised hakkavad olema tulevikumajad? [Võrguväljaanne]

Kurnitski, Jarek Eesti Teaduste Akadeemia : Youtube kanal 2020 / video [Teadlane vastab: millised hakkavad olema tulevikumajad?](#)

Teadlased rõhutavad ventilatsiooni tähtsust viiruse leviku piiramisel [Võrguväljaanne]

Punamäe, Ode Maria err.ee 2020 / fot [Teadlased rõhutavad ventilatsiooni tähtsust viiruse leviku piiramisel](#)

Teadmistepõhine ehitus tuleb taas

Kurnitski, Jarek Ehitaja 2016 / lk. 12 : fot https://artiklid.elnet.ee/record=b2764460*est

Teaduselt ühiskonnale : energia kokkuhoid : Mida tähendab ehituskonstruktiooniliselt liginullenergiahoone nZEB? Mis on sellise hoone olemuslik kontseptsioon?

Kurnitski, Jarek KesKus 2013 / lk. 44 : ill <http://kes-kus.ee/teaduselt-uhiskonnale/>

Technical definition for nearly zero energy buildings

Kurnitski, Jarek The REHVA European HVAC journal 2013 / p. 22-28 : ill

Teenetemärgi laureaat Kurnitski : aitasin tuua hoonetesse hea sisekliima

novaator.err.ee 2024 [Teenetemärgi laureaat Kurnitski: aitasin tuua hoonetesse hea sisekliima](#)

Tehnikateaduste valdkonna aastapreemia tööde tsükli "Liginullenergiahoonete süsteemiirid ja tehnilised lahendused" eest : Jarek Kurnitski. Hoonete energiatõhususe imeline maailm

Kurnitski, Jarek Eesti Vabariigi preemiad 2018 : teadus. F. J. Wiedemanni keeleauhind. Kultuur. Sport 2018 / lk. 100-123 : ill., portr

Tehnikaülikool alustas rohepööret iseendast

digi.geenius.ee 2024 [Tehnikaülikool alustas rohepööret iseendast](#)

Tehnikaülikool rakendab rohepöörde veduriks sünergia

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

Tehnikaülikoolis on uus katseseade, mis võib välja panna Abramsi tanki kaalu

Ehitaja 2023 / lk. 35 : fot https://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2904596*est

Temperature calibration and annual performance of cooling for ceiling panels

Seyed Salehi, Seyed Shahabaldin; Vösa, Karl-Villem; Kurnitski, Jarek; Thalfeldt, Martin CLIMA 2022: the 14th REHVA HVAC World Congress, 22nd – 25th May in Rotterdam, The Netherlands 2022 / p. 1-8 <https://doi.org/10.34641/clima.2022.344>

Temperature distribution and ventilation in large industrial halls

Kurnitski, Jarek; Ahmed, Kaiser; Simson, Raimo; Sistonen, Esko Making Comfort Relevant : 9th International Windsor Conference : proceedings : Cumberland Lodge, Windsor Great Park, UK, 7th-10th April 2016 2016 / p. 340-348 : ill http://nceub.org.uk/W2016/pdfs/proceedings/Proceedings_Windsor_Conference_2016.pdf

Thermal comfort and draught assessment in a modern open office building in Tallinn

Kiil, Martin; Mikola, Alo; Thalfeldt, Martin; Kurnitski, Jarek E3S Web of Conferences : CLIMA 2019 Congress, Bucharest, Romania, May 26-29, 2019 2019 / art. 02013, 7 p. : ill <https://doi.org/10.1051/e3sconf/201911102013> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Thermal mass and energy recovery utilization for peak load reduction panel

Fadejev, Jevgeni; Simson, Raimo; Kurnitski, Jarek; Bomberg, Mark Energy procedia 2017 / p. 39-44 : ill <https://doi.org/10.1016/j.egypro.2017.09.628> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Toetusraha läheb jõukatele: „Pikka plaani ega head riigivalitsemist ei ole võimalik selles mustris kuidagi näha.“

Hallik, Liina Õhtuleht 2023 / Lk. 12-13 <https://dea.digar.ee/article/oh tuleht/2023/10/28/9.1>

Total economy of energy-efficient office building facades in a cold climate = Külmas kliimas asuvate energiatõhusate büroohoonete fassaadi energia- ja majandusanalüüs

Thalfeldt, Martin 2016 <https://digi.lib.ttu.ee/ii/?4068> https://www.ester.ee/record=b4552059*est

Total economy of windows and facades in low energy office buildings

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik; Pikas, Ergo The REHVA European HVAC journal 2014 / p. 19-24 : ill

Towards nZEB - some examples of national requirements and roadmaps

Jagemar, Lennart; Schmidt, Michael; Allard, Francis; Heiselberg, Per; Kurnitski, Jarek The REHVA European HVAC journal 2011 / p. 14-17 : ill <https://vbn.aau.dk/en/publications/towards-nzeb-some-examples-of-national-requirements-and-roadmaps>

Towards the definition of a reference ideal radiator for the assessment of heat emission efficiency in buildings

Ferrantelli, Andrea; Vösa, Karl-Villem; Kurnitski, Jarek IOP conference series : materials science and engineering 2018 / art. 012034, 8 p. : ill <https://doi.org/10.1088/1757-899X/415/1/012034> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Toxicities of detergents used in cleaning chemicals and hygiene products in a test battery of Ex Vivo and in Vitro assays

Andersson, Maria A.; Nagy, Szabolcs; Mikkola, Raimo; Kurnitski, Jarek; Salonen, Heidi Sisäilmastoseminaari 2019 : 14.3.2019 2019 / p. 297-302 https://www.sisailmautiset.fi/Sisailmastoseminaari_2019.pdf

Toxicity screening of fungal extracts and metabolites, xenobiotic chemicals, and indoor dusts with in vitro and ex vivo

bioassay methods

Hintikka, Tuomas; Andersson, Maria A.; Lundell, Taina; Marik, Tamas; Kredics, Laszlo; Mikkola, Raimo; Andersson, Magnus C.; **Kurnitski, Jarek**; Salonen, Heidi Pathogens 2024 / art. 217 <https://doi.org/10.3390/pathogens13030217> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transmission of SARS-CoV-2 by inhalation of respiratory aerosol in the Skagit Valley Chorale superspreading event

Miller, Shelly L.; Nazaroff, William W.; Jimenez, Jose L.; **Kurnitski, Jarek** Indoor air 2021 / p. 314-323 <https://doi.org/10.1111/ina.12751> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TTÜ aasta teadlane 2015 on professor Jarek Kurnitski

Kurnitski, Jarek Mente et Manu 2016 / lk. 20-21 : fot https://artiklid.elnet.ee/record=b2767546*est

TTÜ ehitusteaduskonnast võrsus kolm uut doktorit : [Mikk Maivel, Kalle Kuusk, Endrik Arumägi]

Kurnitski, Jarek Ehitaja 2015 / lk. 12-13 https://artiklid.elnet.ee/record=b2740486*est

TTÜ pereühiselamu lugu : vanast paneelmajast moodsaks liginullenergiahooneks = История семейного общежития ТТУ : современное здание с близким к нулю потреблением энергии из старого панельного дома

Trell, Kristel Elamu 2018 / lk. 10-13, 32-35 : ill https://www.ester.ee/record=b1072137*est https://artiklid.elnet.ee/record=b2865889*est

TTÜ professor : EKKM-i renoveerimist oleks maksumaksjale raske põhjendada [Võrguväljaanne]

Maarits, Merit kultuur.err.ee 2019 / fot [TTÜ professor: EKKM-i renoveerimist oleks maksumaksjale raske põhjendada](#)

TTÜ professor : EKKM-i renoveerimist oleks maksumaksjale raske põhjendada [Võrguväljaanne]

Maarits, Merit; **Kurnitski, Jarek** kultuur.err.ee 2019 / fot [TTÜ professor: EKKM-i renoveerimist oleks maksumaksjale raske põhjendada](#)

TTÜ tutvustas ehitajatele laborite kasutamise võimalusi : [ka Tea Varraku, Targo Kalamehe ja Jarek Kurnitski kommentaarid]

Ehitaja 2015 / lk. 24 : fot

TTÜ uuendused : ehitusteaduskonnast ehituse ja arhitektuuri instituudiks

Kurnitski, Jarek EhitusEST 2017 / lk. 20-21 http://www.ester.ee/record=b4442657*est https://artiklid.elnet.ee/record=b2828406*est

Tulevaste ehitusinseneride kasvulava sai nurgakivi

Ehitaja 2019 / lk. 30-31 : fot http://www.ester.ee/record=b1072123*est

12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020

2020 <https://www.e3s-conferences.org/articles/e3sconf/abs/2020/32/contents/contents.html>

Urban planning principles of nearly zero-energy residential buildings in Estonia

Voll, Hendrik; Thalfeldt, Martin; De Luca, Francesco; **Kurnitski, Jarek**; Olesk, Timo Management of environmental quality - an international journal 2016 / p. 634-648 : ill <https://doi.org/10.1108/meq-05-2015-0101> [Journal metrics at Scopus](#) [Article at Scopus](#)

US DOE launched a common definition for Zero Energy Buildings

Kurnitski, Jarek; Hogeling, Jaap The REHVA European HVAC journal 2015 / p. 58-60 : ill

Using portable air cleaners to restrict airborne transmission in an open plan office – a field measurement and CFD study

Kilpeläinen, Simo; Ejaz, Muhammad F.; **Mikola, Alo**; **Kiil, Martin**; **Kurnitski, Jarek**; Kosonen, Risto E3S Web of Conferences : Roomvent Conference 2024 2024 / 6 p <https://invitepeople.com/public/events/fe41371a0b/pages/ed19d3ae89>

Uuring : Eesti liginullenergiahooned on Põhjamaade kõige säästlikumad [Võrguväljaanne]

Kurnitski, Jarek novaator.err.ee 2020 / fot [Uuring: Eesti liginullenergiahooned on Põhjamaade kõige säästlikumad](#)

Uuring: targalt küttes võib kuludelt säästa viiendiku

goodnews.ee novaator.err.ee 2024 [Uuring: targalt küttes võib kuludelt säästa viiendiku](#) <https://novaator.err.ee/1609490215/uuring-borsihinda-jalgiv-soojuspump-vahendab-kuttekulusid-12-prot senti>

Uus meetod tagab hoones puhta siseõhu

Kurnitski, Jarek Ehitaja 2021 / lk. 20 https://www.ester.ee/record=b1072123*est

Uus riiklik strateegia näeb ette kõigi vanemate hoonete rekonstrueerimist

Kurnitski, Jarek Elamu 2020 / lk. 4-7 : ill https://www.ester.ee/record=b1072137*est

Uusi tulemusi ja sammude seadmist kriisidest väljumiseks

Kurnitski, Jarek EhitusEST 2022 / lk. 22 https://www.ester.ee/record=b4442657*est

Uusi tulemusi ja sammude seadmist kriisidest väljumiseks

Kurnitski, Jarek Ehitaja 2022 / lk. 43 https://www.ester.ee/record=b1072123*est

Uute kortermajade kaldteed neelavad meeletult elektrit. Seetõttu võivad ka arved paisuda ootamatult suureks

Tigasson, Külli-Riin ekspress.ee 2024 [Uute kortermajade kaldteed neelavad meeletult elektrit. Seetõttu võivad ka arved paisuda ootamatult suureks](#)

V3 väljakutsete vanik

Soomere, Tarmo; Kurnitski, Jarek; Randma-Liiv, Tiina; Vasar, Eero Akadeemilisi arutlusi : ilmast ja inimestest 2022 / lk. 153-156 https://www.ester.ee/record=b5521198*est <https://dea.digar.ee/article/postimees/2021/03/03/14.6>

V3 väljakutsete vanik

Soomere, Tarmo; Kurnitski, Jarek; Randma-Liiv, Tiina; Vasar, Eero Postimees 2021 / Lk. 15 <https://dea.digar.ee/article/postimees/2021/03/03/14.6>

Vajalikke selgitusi liginullenergiahoone ja energiatõhususe kohta = Разъяснения по энергетической эффективности и зданиям с близким к нулю потреблением энергии

Kurnitski, Jarek Elamu 2018 / lk. 14-15 : fot; 36-37 : фото https://www.ester.ee/record=b1072137*est https://artiklid.elnet.ee/record=b2865891*est

Varjendite rajamise nõue võib kergitada korterite hinda

Landeiro, Ingrid; Jet, Olga err.ee 2024 [Varjendite rajamise nõue võib kergitada korterite hinda](#)

Water vapour mobilises building related non-volatile chemicals and mycotoxins and may be used to remove substances of potential health hazard from indoor surfaces

Selkäinaho, Jorma; Harmo, Panu; Kurnitski, Jarek Roomvent&Ventilation 2018 : Excellent Indoor Climate and High Performing Ventilation : proceedings 2018 / p. 91-96 : ill <https://www.lyyti.fi/e/?p=s&k=76eA857eee2A33adcE00b0E> <https://www.lyyti.fi/e/?p=s&k=a0E0486b2BC6d8D0F880e96C> https://www.lyyti.fi/reg_att/efA658E7F74904eE7C/0346A5827dBb77E92710.pdf

VAV fan coil and demand controlled active chilled beam systems energy efficiency and thermal comfort performance comparison in a Japanese office building

Ahmed, Kaiser; Yoon, Gyuyoung; Ukai, Makiko; Kurnitski, Jarek E3S Web of Conferences : BuildSim Nordic 2024 2024 / art. 06004 <https://doi.org/10.1051/e3sconf/202456206004>

Wax actuator's empirical model development and application to underfloor heating control with varying complexity of controller modelling detail

Parts, Tuule Mall; Ferrantelli, Andrea; Naar, Hendrik; Thalfeldt, Martin; Kurnitski, Jarek Journal of building performance simulation 2023 / p. 772-796 <https://doi.org/10.1080/19401493.2023.2201818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ventilation effectiveness and incomplete mixing in air distribution design for airborne transmission

Kiil, Martin; Mikola, Alo; Vösa, Karl-Villem; Simson, Raimo; Kurnitski, Jarek Building and environment 2025 / art. 112207 <https://doi.org/10.1016/j.buildenv.2024.112207>

Ventilation effectiveness in classroom infection risk control

Kiil, Martin; Valgma, Ingo; Vösa, Karl-Villem; Simson, Raimo; Mikola, Alo; Tark, Teet; Kurnitski, Jarek E3S Web of Conferences : 11th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, IAQVEC2023 2023 / art. 01043, 8 p <https://doi.org/10.1051/e3sconf/202339601043> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Ventilation effectiveness measurements and CFD simulations in classrooms for infection risk control

Mikola, Alo; Kiil, Martin; Vösa, Karl-Villem; Ejaz, Muhammad Farhan; Kilpeläinen, Simo; Kosonen, Risto; Kurnitski, Jarek E3S Web of Conferences : Roomvent Conference 2024 2024 / 6 p <https://invitepeople.com/public/events/fe41371a0b/pages/ed19d3ae89>

Ventilation performance in deep renovation of multifamily apartment buildings = Terviklikult renoveeritud korterelamute ventilatsioonisüsteemide toimivus

Mikola, Alo 2022 <https://doi.org/10.23658/taltech.38/2022> <https://digikogu.taltech.ee/et/Item/55e3f98e-1a11-498e-98c5-3068a231e2d5> https://www.ester.ee/record=b5505006*est

Ventilation positive pressure intervention effect on indoor air quality in a school building with moisture problems

Vornanen-Winqvist, Camilla; Järvi, Kati; Toomla, Sander; Ahmed, Kaiser; Kurnitski, Jarek International journal of environmental research and public health 2018 / 23 p. : ill <https://doi.org/10.3390/ijerph15020230> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ventilation rate and room size effects on infection risk of COVID-19

Kurnitski, Jarek The REHVA European HVAC journal 2020 / p. 26-31 : ill <https://www.rehva.eu/rehva-journal/chapter/ventilation-rate-and-room-size-effects-on-infection-risk-of-covid-19>

Ventilatsioonisüsteemid ja viiruse levik

Kurnitski, Jarek EhitusEST 2020 / lk. 20-21 : ill https://www.ester.ee/record=b4442657*est <https://ehitusest.ee/uudis/2020/06/18/tiit-land-kool-tuleb-viia-riigile-oluliste-otsuste-juurde/>

Vertical temperature gradient and operative temperature with three heating systems in a low-energy building

Maivel, Mikk; Kurnitski, Jarek; Lahesoo, Kaarel 7. Passivhus Norden / Sustainable Cities and Buildings : Copenhagen, 20-21 August 2015 2015 / p. 1-9 : ill

Viiruse leviku pidurdamiseks on vaja korralikku ventilatsiooni

Uutar, Aivar; **Kurnitski, Jarek** Õpetajate Leht 2020 / lk. 13 <https://opleht.ee/2020/09/viiruse-leviku-pidurdamiseks-on-vaja-korralikku-ventilatsiooni/> <https://dea.digar.ee/article/opetajateleht/2020/09/04/12.2>

Window model and 5 year price data sensitivity to cost-effective facade solutions for office buildings in Estonia

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik Energy 2017 / p. 685-697 : ill <https://doi.org/10.1016/j.energy.2017.06.160> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

WS 16 nZEB nearly zero energy buildings - system boundaries and implementation in national codes

Kurnitski, Jarek Energy efficient, smart and healthy buildings : REHVA Workshops at CLIMA 2013 : Prague, Czech Republic, 17-19 June 2013 2013 / p. 81-87 : ill

Ärihoonete renoveerimine ei taga Eestis loodetud energiatõhusust

Uusen, Kaire Ehitaja 2021 / lk. 16-17 : fot https://www.ester.ee/record=b1072123*est <https://www.ehitusuudised.ee/uudised/2021/08/02/uuring-arihoonete-renoveerimine-ei-tagaloodetud-energiatohusust>

Ülikooli arengu lühivisioon

Kurnitski, Jarek Mente et Manu 2020 / lk. 30-31 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_02_2020/mobile/index.html https://www.ester.ee/record=b1242496*est

Ylipaineistuksen ja ilmanpitävyyden vaikutus rakenteiden kosteustekniseen toimintaan

Mattila, Milla; Vornanen-Winqvist, Camilla; Jerkku, Ilkka; Kurnitski, Jarek Sisäilmastoseminaari 2018 : Messukeskus, Helsinki, 15.3.2018 2018 / s. 345-350 : ill http://sisailmayhdistys.fi/SISAILMASTO_seminaarijulkaisu2018.pdf

Военные рассказали, как будут выглядеть бункеры на восточной границе Эстонии

severnojepoberezhje.postimees.ee 2024 [Военные рассказали, как будут выглядеть бункеры на восточной границе Эстонии](#)

Государство планирует обязать компании строить большие здания сразу с убежищами

Jet, Olga rus.err.ee 2024 [Государство планирует обязать компании строить большие здания сразу с убежищами](#)

Жители квартир часто страдают от высокого уровня углекислого газа

Piir, Rait rus.err.ee 2024 [Жители квартир часто страдают от высокого уровня углекислого газа](#)

Консультант: государство выделяет средства на реновацию домов нестабильно

Pott, Toomas rus.err.ee 2023 [Консультант: государство выделяет средства на реновацию домов нестабильно](#)

Половина эстоноземельцев живет в домах, отчаянно нуждающихся в реновации. Важно знать, что все работы лучше проводить за один раз!

Kurnitski, Jarek dekor.delfi.ee 2023 [Половина эстоноземельцев живет в домах, отчаянно нуждающихся в реновации. Важно знать, что все работы лучше проводить за один раз!](#)

При строительстве жилых домов в Эстонии нужно учитывать потепление климата

Piir, Rait rus.err.ee 2023 [При строительстве жилых домов в Эстонии нужно учитывать потепление климата](#)

Профессор TalTech: жить в новом доме - недешевое удовольствие

Kurnitski, Jarek rus.err.ee 2024 [Профессор TalTech: жить в новом доме - недешевое удовольствие](#)

Результаты реконструкции многоквартирных домов в Эстонии по схеме KredEx. Вентиляционные системы

Kurnitski, Jarek; Mikola, Alo abok.ru 2022 / 1 c. : ил https://www.abok.ru/for_spec/articles.php?nid=8035

Старые системы вентиляции усложняют реновацию многоквартирных домов

Dotšar, Ilja rus.err.ee 2023 [Старые системы вентиляции усложняют реновацию многоквартирных домов](#) <https://digikogu.taltech.ee/et/item/55e3f98e-1a11-498e-98c5-3068a231e2d5> https://www.ester.ee/record=b5505006*est

Чтобы балконы не падали: город поможет

stolitsa.ee 2024 <https://stolitsa.ee/tallinn/chtoby-balkony-ne-padali-gorod-pomozhet>

Эксперт: при правильной реновации дома в спальнях районах простоят еще 100 лет

Sildvee, Reimo rus.err.ee 2023 [Эксперт: при правильной реновации дома в спальных районах простоят еще 100 лет](#)

Ярек Курнитски : остались ли вообще возможности для экономии? [Online resource]

Kurnitski, Jarek rus.err.ee 2022 [Ярек Курнитски : остались ли вообще возможности для экономии?](#)