

Analysis of passive architectural roof cooling potential to decrease the cooling demand for Northern European Office buildings based on energy modelling and laboratory tests

Voll, Hendrik; Seinre, Erkki; Sööt, Peet-Mati WSEAS transactions on environment and development 2011 / p. 136-145 : ill
<http://www.wseas.us/e-library/transactions/environment/2011/53-080.pdf>

Analyzing power and energy flexibilities by demand response in district heated buildings in Finland and Germany

Ju, Yuchen; Jokisalo, Juha; Kosonen, Risto; Kauppi, Ville; Janßen, Philipp Science and technology for the built environment 2021 / p. 1440-1460 : ill <https://doi.org/10.1080/23744731.2021.1950434> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Building energy audit on example of office building

Soots, Georg 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 119-122 : ill

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

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 modelling and laboratory tests on green roof potential to decrease the cooling demand for North European office buildings

Voll, Hendrik; Kõiv, Teet-Andrus Recent Researches in Automatic Control : 13th WSEAS International Conference on Automatic Control, Modelling & Simulation (ACMOS'11), Lanzarote, Canary Islands, May 27-29, 2011 2011 / p. 125-130 : 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
<http://dx.doi.org/10.1016/j.egypro.2015.11.235>

Cooling demand and daylight in commercial buildings - the influence of window design

Voll, Hendrik; Kõiv, Teet-Andrus Energy Problems and Environmental Engineering : [proceedings of the 3rd WSEAS International Conference on ... EPESE'09, RES'09, WWAI'09] : Tenerife, Canary Islands, July 1-3, 2009 2009 / p. 65-70 : ill

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

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](#)

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

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](#)

DHW consumption in residential, educational and office buildings [Electronic resource]

Kõiv, Teet-Andrus; Voll, Hendrik Proceedings of Clima2010 10th Rehva World Congress "Sustainable Energy Use in Buildings" : Antalya, 9-12.05.2010 2010 / [8] p. [CD-ROM]

DHW design flow rates and consumption profiles in educational, office buildings and shopping centres

Kõiv, Teet-Andrus; Mikola, Alo; Toode, Alvar Smart grid and renewable energy 2013 / p. 287-296 : ill

DHW design flow rates in educational and office buildings

Kõiv, Teet-Andrus; Hani, Allan; Toode, Alvar Recent Researches in Environmental and Geological Sciences : proceedings of the 7th WSEAS International Conference on ... [EE'12, CM'12, WHH'12, GES'12] : Greece, July 14-17, 2012 2012 / p. 330-335 : ill
<https://www.wseas.org/multimedia/journals/environment/2013/56-279.pdf>

Domestic hot water consumption in educational and office buildings of Estonia

Kõiv, Teet-Andrus; Voll, Hendrik 10th Rehva World Congress "Sustainable Energy Use in Buildings" : Antalya, 9-12.05.2010 : [abstracts] 2010 / p. 437

Domestic hot water consumption in educational premises, apartment and office buildings

Kõiv, Teet-Andrus; Voll, Hendrik; Hani, Allan WSEAS transactions on environment and development 2010 / 1, p. 43-52 : ill

Energy consumption and indoor climate analysis of office buildings

Thalfeldt, Martin International journal of energy and environment 2010 / 4, p. 197-204 : ill

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

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

Impact of office tenants' electricity use on the cost-optimal solutions in a cold climate

Kuivjõgi, Helena; Laas, Liina; Ferrantelli, Andrea; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 05001, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124605001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Improvement of workplace ergonomics in atrium-type buildings

Tint, Piia; Hrenov, Georgi; Siirak, Virve; Traumann, Ada; Kritševskaja, Marina; Klauson, Deniss Proceedings of the Latvian Academy of Sciences. Section B, Natural, exact, and applied sciences 2016 / p. 336-340 : ill <https://doi.org/10.1515/prolas-2016-0051>

Increasing natural daylight levels in atrium type buildings

Koppel, Tarmo; Tint, Piia 56th International Riga Technical University Conference "Scientific Conference on Economics and Entrepreneurship SCEE'2015" : proceedings 2015 / p. 154-155

Kas suurhooneid saab muuta 80% energiasäästlikumaks? TTÜ katsetab!

Varrak, Tea Inseneeria 2012 / lk. 16-17 : fot https://artiklid.elnet.ee/record=b2490412*est

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

Kurnitski, Jarek Ehitaja 2013 / lk. 27-29

Kuidas välisvarjestusega (energiat) kokku hoida

Kurnitski, Jarek; Thalfeldt, Martin Inseneeria 2014 / lk. 20-21 : ill

Liginullenergiamaajad - Euroopa ehituse tulevik

Kurnitski, Jarek Inseneeria 2013 / lk. 32-33 : ill

Machine learning-based optimization design workflow based on obstruction angles for building facades

Sepulveda Luque, Abel; Eslamirad, Nasim; Seyed Salehi, Seyed Shahabaldin; Thalfeldt, Martin; De Luca, Francesco Regenerating the City Performance-driven and Simulation-based Computational Design for Sustainable Cities and Communities : proceedings of the 9th Regional International Symposium on Education and Research in Computer Aided Architectural Design in Europe, Tallinn University of Technology, 15-16 June 2023 2023 / p. 15-24 <https://digikogu.taltech.ee/et/Item/c29fc911-ec34-45da-afe6-bc1e8515e15d>

Madal- ja liginullenergiahooned : büroohoonete põhilahendused eskiis- ja eelprojekti

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

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

Maja : Eesti arhitektuuri ajakiri = Estonian architectural review

2010 https://www.ester.ee/record=b1348491*est

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](#)

Microwave reflection properties of building materials in the working environment

Koppel, Tarmo; Haldre, Heldur 56th International Riga Technical University Conference "Scientific Conference on Economics and Entrepreneurship SCEE'2015" : proceedings 2015 / p. 148-150 : tab

Mustamäel täieneb Tehnopol

Ehitaja 2016 / lk. 24 : fot

Nearly zero energy office building without conventional heating

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

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](#)

A novel workflow for early design stages to ensure daylight and summer thermal comfort in buildings = Uudne töövoog projekteerimise algaasis, 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-bbdfb238e402> https://www.estar.ee/record=b5503220*est

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>

Optimization of office building facades in a warm summer continental climate

Hani, Allan; Kõiv, Teet-Andrus Smart grid and renewable energy 2012 / p. 222-230 : ill https://www.scirp.org/pdf/sgre20120300008_98662255.pdf

Performance assessment of ventilative and radiant cooling systems in office buildings during extreme weather conditions under a changing climate

Velashjerdi Farahani, Azin; **Jokisalo, Juha;** Korhonen, Natalia; Jylhä, Kirsti; **Kosonen, Risto;** Lestinen, Sami Journal of building engineering 2022 / art. 104951, 22 p. : ill <https://doi.org/10.1016/j.jobbe.2022.104951> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

A review of non-residential building renovation and improvement of energy efficiency: office buildings in Finland, Sweden, Norway, Denmark, and Germany

Kiviste, Mihkel; Musakka, Sami; **Ruus, Aime;** Vinha, Juha Energies 2023 / art. 4220, 26 p <https://doi.org/10.3390/en16104220>

Sisekliima ja töövõiljakus : uuring võttis luubi alla koolid ja büroohooned : [raamatu "Sisekliima, õpitulemus, töövõiljakus" tutvustus]

EhitusEST 2014 / lk. 46 : ill

Solar radiation-based method for early design stages to balance daylight and thermal comfort in office buildings

Sepulveda Luque, Abel; Seyed Salehi, Seyed Shahabaldin; De Luca, Francesco; Thalfeldt, Martin Frontiers of architectural research 2023 <https://doi.org/10.1016/j.foar.2023.07.001>

Teadlased: ärihoonete raiskav energiakasutus ohustab rohepööret

Mente et Manu 2021 / lk. 11 https://www.estar.ee/record=b1242496*est <https://doi.org/10.1016/j.enbuild.2021.111169>

The computer workers' working conditions influencing the health in modern buildings

Tint, Piia; Karai, Deniss; Oha, Kristel; **Koppel, Tarmo; Tuulik-Leisi, Varje-Riin; Tuulik, Viu; Meigas, Kalju** Intelligent Technologies in Logistics and Mechatronics Systems ITELMS'2013 : proceedings of the 8th international conference 2013 / p. 247-253 : ill

The preliminary research of sea water district heating and cooling for Tallinn coastal area

Hani, Allan; Kõiv, Teet-Andrus Smart grid and renewable energy 2012 / p. 246-252 : ill https://www.scirp.org/pdf/sgre20120300011_19171139.pdf

The working conditions of office-workers in modern buildings

Tint, Piia; Karai, Deniss; Oha, Kristel; **Koppel, Tarmo; Tuulik-Leisi, Varje-Riin; Tuulik, Viiu; Meigas, Kalju** Human factors : sustainable life and mobility : October 16-18, 2013, Torino, Italy : programme, abstracts book 2013 / p. [64]

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](#)

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/74068>

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

Uusi büroohooneid ehitatakse kapitaalselt ümber

Kalamees, Targo EhitusEST 2023 / lk. 28-29 : fot https://www.ester.ee/record=b4442657*est

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>

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>