Data acquisition workflow utilizing lod3 geometry templates and point clouds for urban building energy modelling
Iliste, Elisa; **Pikas, Ergo**; **Kalamees, Targo**; **Viik, Joosep** Proceedings of the 2024 European Conference on Computing in Construction 2024 / p. 689-696 https://doi.org/10.35490/EC3.2024.221 Conference proceedings at Scopus Article at Scopus

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.jobe.2022.104759 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Adaptive ventilation for climate control in a medieval church in cold climate
Napp, Margus; Wessberg, Magnus; **Kalamees, Targo**; Broström, Tor International journal of ventilation 2016 / p. 1-14 : ill
https://doi.org/10.1080/14733315.2016.1173289 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Addressing housing needs of the displaced people promoting resilient and sustainable communities
Jayakody, Chathuranganee; Malalgoda, Chamindi Ishara; Amaratunga, Dilanthi; Haigh, Richard; Liyanage, Champika; Hamza, Mo; **Witt, Emlyn David Qivitoq**; Fernando, Nishara International Journal of Disaster Resilience in the Built Environment 2022 / p. 368-385 : ill https://doi.org/10.1108/IJDRBE-09-2021-0124 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Advanced digital technologies in the post-disaster reconstruction process—A review leveraging small language models
Rawat, Alok; **Witt, Emlyn David Qivitoq**; Roumyeh, Mohamad; **Lill, Irene** Buildings 2024 / art. 3367
https://doi.org/10.3390/buildings14113367 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Aggregation ready flexibility management methods for mechanical ventilation systems in buildings
Maask, Vahur; **Rosin, Argo**; **Korõtko, Tarmo**; **Thalfeldt, Martin**; **Syri, Sanna**; **Ahmadiahangar, Roya** Energy and buildings 2023 / art. 113369, 14 p. : ill https://doi.org/10.1016/j.enbuild.2023.113369 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Air leakage levels in timber frame building envelope joints
Kalamees, Targo; **Alev, Üllar**; **Pärnalaas, Mihkel** Building and environment 2017 / p. 121-129 : ill
https://doi.org/10.1016/j.buildenv.2017.02.011 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Air leakage of joints filled with polyurethane foam
Hallik, Jaanus; **Gustavson, Heleen**; **Kalamees, Targo** Buildings 2019 / art. 172, 15 p. : ill https://doi.org/10.3390/buildings9070172 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Air pressure differences over external walls in new and retrofitted schools and daycare centers
Kauppinen, Antti; **Kiviste, Mihkel**; Pirhonen, Joni; Tuominen, Eero; Laukkarinen, Anssi; Huttunen, Petteri; Vinha, Juha Buildings 2022 / art. 1629 https://doi.org/10.3390/buildings12101629 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Airtightness of cross-laminated timber envelopes : influence of moisture content, indoor humidity, orientation, and assembly
Kukk, Villu; **Bella, Adeniyi**; **Kers, Jaan**; **Kalamees, Targo** Journal of building engineering 2021 / art. 102610
https://doi.org/10.1016/j.jobe.2021.102610 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Airtightness, air exchange and energy performance in historic residential buildings with different structures
Eskola, Lari; **Alev, Üllar**; **Arumägi, Endrik**; Jokisalo, Juha; Donarelli, Anna; Sirén, Kai; **Kalamees, Targo** International journal of ventilation 2015 / p. 11-26 : ill https://doi.org/10.1080/14733315.2015.11684066 Journal metrics at Scopus Article at Scopus

Alternative approach to buckling of square hollow section steel columns in fire
Kervališvili, Andrei; **Talvik, Ivar** Journal of constructional steel research 2014 / p. 140-150 : ill https://doi.org/10.1016/j.jcsr.2013.11.018 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysis of energy economic renovation for historic wooden apartment buildings in cold climates
Arumägi, Endrik; **Kalamees, Targo** Applied energy 2014 / p. 540-548 : ill https://doi.org/10.1016/j.apenergy.2013.10.041 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysis of measures for managing issues in post-disaster housing reconstruction
Bilau, Abdulquadri Ade; **Witt, Emlyn David Qivitoq**; **Lill, Irene** Buildings 2017 / art. 29, p. 1-26 : ill
https://doi.org/10.3390/buildings7020029 Journal metrics at Scopus Article at Scopus

Analysis of the insolation criteria for nearly-zero energy buildings in Estonia
Voll, Hendrik; **De Luca, Francesco**; Pavlovas, Vitalis Science and technology for the built environment 2016 / p. 939-950 : ill
https://doi.org/10.1080/23744731.2016.1195657 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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 approach for maximizing self-consumption of nearly zero energy buildings- case study : Baltic region
Ahmadiahangar, Roya; Karami, Hossein; **Husev, Oleksandr**; **Blinov, Andrei**; **Rosin, Argo**; Jonaitis, Audrius; Sanjari, Mohammad Javad Energy 2022 / art. 121744, 11 p. : ill https://doi.org/10.1016/j.energy.2021.121744 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

The applicability of limiting phase angle temperatures for specifying asphalt binder low temperature performance
Lill, Kristjan; **Kontson, Karli**; **Aavik, Andrus** Baltic journal of road and bridge engineering 2023 / p. 166-184 https://doi.org/10.7250/bjrbe.2023-18.623 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Application potential of combining strain hardening cementitious composites and helical reinforcement for 3D concrete printed structures : case study of a spiral staircase
Hass, Lauri; Nefs, K.; Bos, F. P.; Salet, T. A. M. Journal of building engineering 2023 / art. 107926 https://doi.org/10.1016/j.jobe.2023.107926 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Aqueous mineral carbonation of oil shale mine waste (limestone) : a feasibility study to develop a CO2 capture sorbent
Puthiya Veetil, Sanoop Kumar; **Rebane, Kaarel**; **Yörük, Can Rüstü**; **Lopp, Margus**; **Trikkel, Andres**; **Hitch, Michael William** Energy 2021 / art. 119895 https://doi.org/10.1016/j.energy.2021.119895 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Assumptions to road pavement testing by non-destructive means
Janulevičius, Justinas; Čygas, Donatas; Giniotis, Vytautas; **Aavik, Andrus** The Baltic journal of road and bridge engineering 2013 / p. 227-231 : ill https://doi.org/10.3846/bjrbe.2013.29 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Avoiding mould growth in an interiorly insulated log wall
Alev, Üllar; **Kalamees, Targo** Building and environment 2016 / p. 104-115 : ill https://doi.org/10.1016/j.buildenv.2016.05.020 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Benchmark of methods for annual glare risk assessment
Sepulveda Luque, Abel; Bueno, Bruno; Wang, Taoning; Wilson, Helen Rose Building and environment 2021 / art. 108006 https://doi.org/10.1016/j.buildenv.2021.108006 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Bending and pull-out tests on a novel screw type reinforcement for extrusion-based 3D printed concrete
Hass, Lauri; Bos, Freek Second RILEM International Conference on Concrete and Digital Fabrication : Digital Concrete 2020 2020 / p. 632-645 : ill https://doi.org/10.1007/978-3-030-49916-7_64 Journal metrics at Scopus Article at Scopus

Benefits through space heating and thermal storage with demand response control for a district-heated office building
Ju, Yuchen; **Hiltunen, Pauli**; **Jokisalo, Juha**; **Kosonen, Risto**; **Syri, Sanna** Buildings 2023 / art. 2670, 23 p. : ill https://doi.org/10.3390/buildings13102670 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The BIM-based building permit process : factors affecting adoption
Ullah, Kaleem; **Witt, Emlyn David Qivitoq**; **Lill, Irene** Buildings 2022 / art. 45 https://doi.org/10.3390/buildings12010045 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Building information modelling (BIM) - enabled construction education : teaching project cash flow concepts
Olowa, Theophilus Oluwarotimi Olatunde; **Witt, Emlyn David Qivitoq**; **Lill, Irene** International Journal of Construction Management 2021 / p. 1494-1505 : ill https://doi.org/10.1080/15623599.2021.1979300 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Carbonation of steel slag and gypsum for building materials and associated reaction mechanisms
Wang, Xue; Ni, Wen; Li, Jiajie; Zhang, Siqi; **Hitch, Michael William**; Pascual, Rodrigo Cement and Concrete Research 2019 / art. 105893, 12 p. : ill https://doi.org/10.1016/j.cemconres.2019.105893 Journal metrics at Scopus Article at Scopus Journal metricsc at WOS Article at WOS

Catalytic effect of oil shale ash on CO2 gasification of leached wheat straw and reed chars
Link, Siim; Tran, Khanh-Quang; Bach, Quang-Vu; Yrjas, Patrik; **Rosin, Argo** Energy 2018 / p. 906-913
https://doi.org/10.1016/j.energy.2018.04.013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Causality and interpretation : a new design model inspired by the Aristotelian legacy
Pikas, Ergo; Koskela, Lauri; Seppänen, Olli Construction management and economics 2022 / p. 507-525 : ill
https://doi.org/10.1080/01446193.2021.1934884 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Centimetre-range deformations of built environment revealed by drone-based photogrammetry
Varbla, Sander; **Ellmann, Artu**; **Puust, Raido** Automation in Construction 2021 / art. 103787
https://doi.org/10.1016/j.autcon.2021.103787 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

CFD comparison of the influence of casting of samples on the fiber orientation distribution
Goidyk, Oksana; **Heinštein, Mark**; **Herrmann, Heiko** Fibers 2023 / art. 6 https://doi.org/10.3390/fib11010006 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Charring performance of timber structures protected by traditional lime-based plasters
Liblik, Johanna; **Nurk, Meeri**; **Just, Alar** Construction and building materials 2022 / art. 128572
https://doi.org/10.1016/j.conbuildmat.2022.128572 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Combined 3D building surveying techniques – terrestrial laser scanning (TLS) and total station surveying for BIM data management purposes
Mill, Tarvo; Alt, Aivars; **Liias, Roode** Journal of civil engineering and management 2013 / p. S23-S32 : ill
https://www.researchgate.net/publication/261643973_Combined_3D_building_surveying_techniques-Terrestrial_laser_scanning_TLS_and_total_station_surveying_for_BIM_data_management_purposes
https://doi.org/10.3846/13923730.2013.795187 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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.jobe.2019.02.009 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative assessment of heat recovery from treated wastewater in the district heating systems of the three capitals of the Baltic countries
Ziemele, Jelena; **Volkova, Anna**; **Latõšov, Eduard**; Murauskaite, Lina; Džiuve, Vytautas Energy 2023 / art. 128132
https://doi.org/10.1016/j.energy.2023.128132 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of performance-based specification properties for asphalt binders sourced from around the world
Lill, Kristjan; Khan, Ahmad Nawaz; **Kontson, Karli**; Hesp, Simon A. M. Construction and building materials 2020 / art. 120552, 8 p. : ill https://doi.org/10.1016/j.conbuildmat.2020.120552 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Computationally efficient method for steel column buckling in fire
Kervalishvili, Andrei; **Talvik, Ivar** Buildings 2023 / 19 p https://doi.org/10.3390/buildings13020407 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Conceptual framework of information flow synchronization throughout the building lifecycle
Raitviir, Christopher-Robin; **Lill, Irene** Buildings 2024 / art. 2207 https://doi.org/10.3390/buildings14072207 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Converting Tallinn's historic centre's (Old Town) heating system to a district heating system
Volkova, Anna; **Krupenski, Igor**; **Kovtunova, Natalja**; **Hlebnikov, Aleksandr**; **Mašatin, Vladislav**; Ledvanov, Aleksandr Energy 2023 / art. 127429 https://doi.org/10.1016/j.energy.2023.127429 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Cost effectiveness of energy performance improvements in Estonian brick apartment buildings
Kuusk, Kalle; **Kalamees, Targo**; **Maivel, Mikk** Energy and buildings 2014 / p. 313-322 : ill https://doi.org/10.1016/j.enbuild.2014.03.026 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 savings and CO2 emissions reduction potential in the German district heating system with demand response
Ju, Yuchen; Lindholm, Joakim; Verbeck, Moritz; **Jokisalo, Juha**; **Kosonen, Risto**; Janßen, Philipp; Li, Yantong; Schäfers, Hans; Nord, Natasa Science and Technology for the Built Environment 2022 / p. 255 - 274 https://doi.org/10.1080/23744731.2021.2018875 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 Artile at WOS

Cost-effective heating control approaches by demand response and peak demand limiting in an educational office building with district heating
Yuan, Xiaolei; Vand, Behrang; Martin, Kristian; **Jokisalo, Juha**; Liang, Yumin; **Kosonen, Risto**; Pan, Yiqun Buildings 2023 / art. 332, 18 p. : ill https://doi.org/10.3390/buildings13020332 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Cost-optimal renovation solutions for detached rural houses in Severe cold regions of China
Hu, Xinyi; **Jokisalo, Juha**; **Kosonen, Risto**; Lehtonen, Matti; Shao, Teng Buildings 2023 / art. 771, 19 p. : ill https://doi.org/10.3390/buildings13030771 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Crashworthiness performance of stiffened bottom tank structure subjected to impact loading conditions : ship-rock interaction
Prabowo, Aditya Rio; Sohn, Jung Min; **Putranto, Teguh** Curved and Layered Structures 2019 / p. 245–258 : ill https://doi.org/10.1515/cls-2019-0016 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Critical factors for effective BIM-Enabled education : an adaptive structuration theory perspective
Olowa, Theophilus Oluwarotimi Olatunde; **Witt, Emlyn David Qivitoq**; **Lill, Irene**; Rasheed, A.; Abdulmumin, A.; Adebiyi, R. Buildings 2023 / art. 3044, 18 p. : ill https://doi.org/10.3390/buildings13123044 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Data generative machine learning model for the assessment of outdoor thermal and wind comfort in a northern urban environment
Eslamirad, Nasim; **De Luca, Francesco**; **Lylykangas, Kimmo Sakari**; **Ben Yahia, Sadok** Frontiers of architectural research 2023 / p. 541-555 : ill https://doi.org/10.1016/j.foar.2022.12.001 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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.jobe.2021.103532 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Defining a BIM-enabled learning environment - an adaptive structuration theory perspective
Olowa, Theophilus Oluwarotimi Olatunde; **Witt, Emlyn David Qivitoq**; Morganti, Caterina; Teittinine, Toni; **Lill, Irene** Buildings 2022 / art. 292 https://doi.org/10.3390/buildings12030292 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Demand response potential of district heating in a swimming hall in Finland
Yuan, Xiaolei; Lindroos, Leo; **Jokisalo, Juha**; **Kosonen, Risto**; Pan, Yiqun; Jin, Hui Energy and buildings 2021 / art. 111149, 12 p. : ill https://doi.org/10.1016/j.enbuild.2021.111149 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of high-performing hybrid ground source heat pump (GSHP) system in an educational building
Xue, Tianchen; **Jokisalo, Juha**; **Kosonen, Risto**; Ju, Yuchen Buildings 2023 / art. 1825, 26 p. : ill https://doi.org/10.3390/buildings13071825 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of the first net-zero energy buildings in Estonia
Arumägi, Endrik; **Kalamees, Targo** Science and technology for the built environment 2016 / p. 1039-1049 : ill https://doi.org/10.1080/23744731.2016.1206793 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Designing highly insulated cross-laminated timber external walls in terms of hygrothermal performance : field measurements and simulations
Kukk, Villu; **Kaljula, Laura**; **Kers, Jaan**; **Kalamees, Targo** Building and Environment 2022 / art. 108805

https://doi.org/10.1016/j.buildenv.2022.108805 Journal metrics at Scopus Article at Scopus Journal metrics at WOS 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

Determination of paper plaster hygrothermal performance: influence of different types of paper on sorption and moisture buffering
Vares, Maia-Liisa; **Ruus, Aime**; **Nutt, Nele**; **Kubjas, Ardo**; **Raamets, Jane** Journal of building engineering 2021 / art. 101830, 8 p. : ill https://doi.org/10.1016/j.jobe.2020.101830 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determining ranges and spatial distribution of road frost heave by terrestrial laser scanning
Mill, Tarvo; **Ellmann, Artu**; **Aavik, Andrus**; Horemuz, Milan; Sillamäe, Sven The Baltic journal of road and bridge engineering 2014 / p. 225-234 : ill https://doi.org/10.3846/bjrbe.2014.28 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Deterministic and probabilistic analyses of the bearing capacity of screw cast in situ displacement piles in silty soils as measured by CPT and SDT
Leetsaar, Lehar; Korkiala-Tanttu, Leena The Baltic journal of road and bridge engineering 2023 / p. 99-127 : ill
https://doi.org/10.7250/bjrbe.2023-18.600 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

Direct aqueous carbonation on olivine at a CO2 partial pressure of 6.5 MPa
Li, Jiajie; Jacobs, Anthony D.; **Hitch, Michael William** Energy 2019 / p. 902-910 : ill https://doi.org/10.1016/j.energy.2019.02.125 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Doping engineering for controlled hydration and mechanical properties in Portland cement mortar with ultra-low ZnO concentration
Tamashiro, Jacqueline Roberta; de la Rubia, Miguel Angel; Rubio-Marcos, Fernando; **Rojas Hernandez, Rocio Estefania**; Silva, Lucas Henrique Pereira; de Paiva, Fabio Friol Guedes; Kinoshita, Angela; Terrades, Amparo Moragues Journal of building engineering 2023 / art. 107748 https://doi.org/10.1016/j.jobe.2023.107748 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

The economic challenges of deep energy renovation - differences, similarities, and possible solutions in Northern Europe : Estonia and Denmark
Rose, Jorgen; **Kuusk, Kalle**; Thomsen, Kirsten Engelund; **Kalamees, Targo**; Morck, Ove Christen ASHRAE transactions. Vol. 122, pt. 1 2016 / p. 58-68 : ill https://www.proquest.com/openview/3b32b899a3b498dc8694f261aaaa9cf0/1?pq-origsite=gscholar&cbl=34619 Conference Proceedings at Scopus Article at Scopus Article at WOS

Economic viability of energy-efficiency measures in educational buildings in Finland
Alanne, Kari; Schade, Jutta; Martinac, Ivo; Saari, Arto; Jokisalo, Juha; **Kalamees, Targo** Advances in building energy research 2013 / p. 120-127 https://doi.org/10.1080/17512549.2013.809272 Journal metrics at Scopus Article at Scopus

Editorial
International journal of disaster resilience in the built environment 2020 / p. 1-2 https://doi.org/10.1108/IJDRBE-02-2020-084 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

The effect of printing direction on the strength characteristics of a 3D printed concrete wall section
Põldaru, Mattias; **Tammkõrv, Karl**; **Tuisk, Tanel**; **Kiviste, Mihkel**; **Puust, Raido** Buildings 2023 / art. 2917
https://doi.org/10.3390/buildings13122917 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of the urban microenvironment on the indoor air temperature of the residential building stock in the Helsinki region
Kravchenko, Ilia; Farahani, Azin Velashjerdi; **Kosonen, Risto**; Kilpeläinen, Simo; Saranko, Olli; Fortelius, Carl Building and Environment 2023 / art. 110971 https://doi.org/10.1016/j.buildenv.2023.110971 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The effect of thermal transmittance of building envelope and material selection of wind barrier on moisture safety of timber frame exterior wall
Pihelo, Peep; **Kalamees, Targo** Journal of building engineering 2016 / p. 29-38 : ill https://doi.org/10.1016/j.jobe.2016.02.002 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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 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 cascade connection of a low-temperature district heating network to the return line of a high-temperature district heating network
Volkova, Anna; **Krupenski, Igor**; Ledvanov, Aleksandr; Hlebnikov, Aleksandr; **Lepiksaar, Kertu**; **Latõšov, Eduard**; **Mašatin, Vladislav** Energy 2020 / art. 117304, 15 p. : ill https://doi.org/10.1016/j.energy.2020.117304 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Energy demand for the heating and cooling of residential houses in Finland in a changing climate
Jylhä, Kirsti; Jokisalo, Juha; **Kalamees, Targo** Energy and buildings 2015 / p. 104-116 : ill https://doi.org/10.1016/j.enbuild.2015.04.001 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** 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 use and indoor climate of conservation heating, dehumidification and adaptive ventilation for the climate control of a mediaeval church in a cold climate
Napp, Margus; **Kalamees, Targo** Energy and buildings 2015 / p. 61-71 : ill https://doi.org/10.1016/j.enbuild.2015.08.013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Epistemological explanation of lean construction
Koskela, Lauri; Ferrantelli, Andrea; Niiranen, Jarkko; **Pikas, Ergo**; Dave, Bhargav Journal of construction engineering and management 2019 / p. 04018131-1 -04018131-10 https://doi.org/10.1061/(ASCE)CO.1943-7862.0001597 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Estimating parameters for traffic flow using navigation data on vehicles
Burinskiene, Marija; Kapski, Denis; Kasyanik, Valery; **Pashkevich, Anton** The Baltic journal of road and bridge engineering 2020 / p. 1-21 https://doi.org/10.7250/bjrbe.2020-15.492 Journal metrics at Scopus Article at Scopus Journal metrics at WOS 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

Estonian traffic behaviour monitoring studies 2001-2016 : overview and results
Ess, Juri; **Antov, Dago** The Baltic journal of road and bridge engineering 2017 / p. 167-173 https://doi.org/10.3846/bjrbe.2017.20 http://www.ester.ee/record=b2222369*est Journal metrics at Scopus Article at Scopus Article at WOS

European roadmap for the En-ActivETICS advancement and potential of the PV/PCM unventilated wall system application
Heim, Dariusz; **Talvik, Martin**; Wieprzkowicz, Anna; **Ilomets, Simo**; Knera, Dominika; **Kalamees, Targo**; Czarny, Dariusz Energy and buildings 2023 / art. 113207 https://doi.org/10.1016/j.enbuild.2023.113207 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Evaluation of renovation strategies : cost-optimal, CO‐e optimal, or total energy optimal
Kertsmik, Kadri-Ann; **Kuusk, Kalle**; **Lylykangas, Kimmo Sakari**; **Kalamees, Targo** Energy and buildings 2023 / art. 112995 https://doi.org/10.1016/j.enbuild.2023.112995 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 observation of crack formation on surface of charring timber
Rinta-Paavola, Aleksi; **Ferrantelli, Andrea**; Hostikka, Simo Fire safety journal 2024 / art. 104231
https://doi.org/10.1016/j.firesaf.2024.104231 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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** 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

Failure analysis of a spray polyurethane foam roofing system
Kalamees, Targo; **Põldaru, Mattias**; **Ilomets, Simo**; **Klõšeiko, Paul**; **Kallavus, Urve**; **Rosenberg, Margit**; **Õiger, Karl** Journal of building engineering 2020 / art. 101752, 9 p. : ill https://doi.org/10.1016/j.jobe.2020.101752 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fire protection provided by insulation materials - a new design approach for timber frame assemblies
Tiso, Mattia; **Just, Alar** Structural engineering international 2017 / p. 231-237 https://doi.org/10.2749/101686617X14881932435899 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Free cooling potential of an airside economizer in Estonia
Palmiste, Ülar; **Voll, Hendrik** Science and technology for the built environment 2016 / p. 951-959 : ill
https://doi.org/10.1080/23744731.2016.1195661 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Geodetic monitoring of bridge deformations occurring during static load testing
Mill, Tarvo; **Ellmann, Artu**; Kiisa, Martti; **Idnurm, Juhan**; Horemuz, Milan; **Aavik, Andrus** The Baltic journal of road and bridge engineering 2015 / p. 17-27 : ill https://doi.org/10.3846/bjrbe.2015.03 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Guest editorial
Lill, Irene; Perera, Srinath International journal of disaster resilience in the built environment 2017 / p. 2-4
https://doi.org/10.1108/IJDRBE-11-2016-0049 Journal metrics at Scopus Article at Scopus

Heating energy-saving potentials in HVAC system of swimming halls : a review
Yuan, Xiaolei; Chen, Zhisen; Liang, Yumin; Pan, Yiqun; **Jokisalo, Juha**; **Kosonen, Risto** Building and environment 2021 / art. 108189, 18 p. : ill https://doi.org/10.1016/j.buildenv.2021.108189 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** 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

High-strength fuel pellets made of flour milling and coal slack wastes
Tabakaev, Roman; Kahn, Victor; Dubinina, Yury; **Preis, Sergei** Energy 2022 / art. 123071 https://doi.org/10.1016/j.energy.2021.123071 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

How well are energy performance objectives being achieved in renovated apartment buildings in Estonia?

Hamburg, Anti; **Kalamees, Targo** Energy and buildings 2019 / p. 332–341 https://doi.org/10.1016/j.enbuild.2019.07.006 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Hygrothermal performance of a brick wall with interior insulation in cold climate : vapour open vs vapour tight approach
Klõšeiko, Paul; **Kalamees, Targo** Journal of building physics 2022 / p. 3-35 : ill https://doi.org/10.1177/17442591211056067 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hygrothermal performance of internally insulated brick wall in cold climate : a case study in a historical school building
Klõšeiko, Paul; **Arumägi, Endrik**; **Kalamees, Targo** Journal of building physics 2015 / p. 444-464 : ill https://doi.org/10.1177/1744259114532609 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hygrothermal performance of thick PCM mortar behind PV panels in energy-activated ETICS facades
Talvik, Martin; **Ilomets, Simo**; **Klõšeiko, Paul**; **Kalamees, Targo**; **Põldaru, Mattias**; Heim, Dariusz Buildings 2023 / art. 1572 https://doi.org/10.3390/buildings13061572 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of built-in moisture on the design of hygrothermally safe cross-laminated timber external walls : a stochastic approach
Kukk, Villu; **Kers, Jaan**; **Kalamees, Targo**; Wang, Lin; **Ge, Hua** Building and environment 2022 / art. 109736 https://doi.org/10.1016/j.buildenv.2022.109736 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

Improving design quality by contractor involvement : an empirical study on effects
Lappalainen, Eelon; Uusitalo, Petteri; **Pikas, Ergo**; Seppänen, Olli; Peltokorpi, Antti; Uusitalo, Petri; Reinbold, Ana; Menzhinskii, Nikolai Buildings 2022 / art. 1188 https://doi.org/10.3390/buildings12081188 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Indoor hygrothermal loads for the deterministic and stochastic design of the building envelope for dwellings in cold climates
Ilomets, Simo; **Kalamees, Targo**; Vinha, Juha Journal of building physics 2018 / p. 547-577 : ill https://doi.org/10.1177/1744259117718442 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Jobs created out of Tallinn have not reduced commuting
Mäe, Roland; **Antov, Dago**; **Antso, Imre** The Baltic journal of road and bridge engineering 2013 / p. 58-65 https://doi.org/10.3846/bjrbe.2013.08 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Learning based personalized energy management systems for residential buildings
Soudari, Mallikarjun; Srinivasan, Seshadhri; Balasubramanian, Subathra; **Vain, Jüri**; **Kotta, Ülle** Energy and buildings 2016 / p. 953-968 : ill https://doi.org/10.1016/j.enbuild.2016.05.059 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Circular, local, open : a recipe for sustainable building construction
Kouvara, Asimina; **Priavolou, Christina**; Ott, Denise; Scherer, Philipp; Zyl-Bulitta, Verena Helen van Buildings 2023 / art. 2493 https://doi.org/10.3390/buildings13102493 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 waste heat enabling abandoning coal in Espoo district heating system
Hiltunen, Pauli; **Syri, Sanna** Energy 2021 / art. 120916, 11 p. : ill https://doi.org/10.1016/j.energy.2021.120916 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Mechanical properties and self-healing capacity of ultra high performance fibre reinforced concrete with alumina nano-

fibres : tailoring ultra high durability concrete for aggressive exposure scenarios
Cuenca, Estefania; D'Ambrosio, Leonardo; Lizunov, Dennis; **Tretjakov, Aleksei**; **Volobujeva, Olga**; Ferrara, Liberato Cement and concrete composites 2021 / art. 103956, 17 p https://doi.org/10.1016/j.cemconcomp.2021.103956 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Methodology for evaluating the transition process dynamics towards 4th generation district heating systems
Volkova, Anna; **Mašatin, Vladislav**; **Siirde, Andres** Energy 2018 / p. 253-261 : ill https://doi.org/10.1016/j.energy.2018.02.123 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microgrid oriented modeling of space heating system based on neural networks
Häring, Tobias; **Kull, Tuule Mall**; **Ahmadiahangar, Roya**; **Rosin, Argo**; **Thalfeldt, Martin**; **Biechl, Helmuth** Journal of building engineering 2021 / art. 103150, 12 p. : ill https://doi.org/10.1016/j.jobe.2021.103150 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modelling the technical–economic relevance of the ETICS construction process
Sulakatko, Virgo Buildings 2018 / art. 155, 26 p. : ill https://doi.org/10.3390/buildings8110155 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modified procedure for buckling of steel columns at elevated temperatures
Kervalishvili, Andrei; **Talvik, Ivar** Journal of Constructional Steel Research 2016 / p. 108 - 119
https://doi.org/10.1016/j.jcsr.2016.07.008 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Moisture buffer value of composite material made of clay-sand plaster and wastepaper
Nutt, Nele; **Kubjas, Ardo** Journal of sustainable architecture and civil engineering 2020 / p. 108−115
https://doi.org/10.5755/j01.sace.27.2.25391 Journal metrics at Scopus Article at Scopus

Moisture control strategies of habitable basements in cold climates
Asphaug, Silje Kathrin; Kvande, Tore; Time, Berit; Peuhkuri, Ruut H.; **Kalamees, Targo**; Johansson, Pär; Berardi, Umberto; Lohne, Jardar Building and Environment 2020 / Art. 106572 https://doi.org/10.1016/j.buildenv.2019.106572 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Moisture safety in prefabricated roof renovations : causes and strategies
Kodi, Georg-Mihkel; **Kalbe, Kristo**; **Pihelo, Peep**; **Kalamees, Targo** Journal of sustainable architecture and civil engineering 2024 / p. 68-83 https://doi.org/10.5755/j01.sace.35.2.35825 Journal metrics at Scopus Article at Scopus

MO-NILM: A multi-objective evolutionary algorithm for NILM classification
Machlev, Ram; **Belikov, Juri**; Beck, Yuval; Levron, Yoash Energy and buildings 2019 / p. 134-144
https://doi.org/10.1016/j.enbuild.2019.06.046 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Multi-performance optimization of static shading devices for glare, daylight, view and energy consideration
De Luca, Francesco; **Sepulveda Luque, Abel**; **Varjas, Toivo** Building and environment 2022 / art. 109110
https://doi.org/10.1016/j.buildenv.2022.109110 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Multi-source district heating system full decarbonization strategies: Technical, economic, and environmental assessment
Pakere, Ieva; Feofilovs, Maksims; **Lepiksaar, Kertu**; Vītoliņš, Valdis; Blumberga, Dagnija Energy 2023 / art. 129296
https://doi.org/10.1016/j.energy.2023.129296 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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 solar envelope method based on solar ordinances for urban planning
De Luca, Francesco; Dogan, Timur Building Simulation 2019 / p. 817 - 834 https://doi.org/10.1007/s12273-019-0561-1 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Numerical analysis of additional heat loss induced by air cavities between insulation boards due to non-ideality
Hallik, Jaanus; **Klõšeiko, Paul**; **Piir, Reimo**; **Kalamees, Targo** Journal of building engineering 2022 / art. 05221 https://doi.org/10.1016/j.jobe.2022.105221 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Numerical simulation of acoustic emission during crack growth in 3-point bending test
Berezovski, Arkadi; Berezovski, Mihhail Structural control & health monitoring 2017 / e1996, p. 1-8 : ill https://doi.org/10.1002/stc.1996 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Numerical simulation of CLT moisture uptake and dry-out following water infiltration through end-grain surfaces
Brandstätter, Florian; Kalbe, Kristo; Autengruber, Maximilian; Lukacevic, Markus; Kalamees, Targo; **Ruus, Aime**; **Annuk, Alvar**; Füssl, Josef Journal of Building Engineering 2023 / art. 108097 https://doi.org/10.1016/j.jobe.2023.108097 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Oil prices, unemployment and the financial crisis in oil-importing countries : The case of Spain
Ordonez, Javier; Monfort, Mercedes; Cuestas, Juan Carlos Energy 2019 / p. 625-634 https://doi.org/10.1016/j.energy.2019.05.209 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Oil shale ash based backfilling concrete - strength development, mineral transformations and leachability
Uibu, Mai; Somelar, Peeter; **Raado, Lembi-Merike**; Irha, Natalja; **Hain, Tiina**; **Koroljova, Arina**; **Kuusik, Rein, keemik** Construction and building materials 2016 / p. 620-630 : ill https://doi.org/10.1016/j.conbuildmat.2015.10.197 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Operation of district heat network in electricity and balancing markets with the power-to-heat sector coupling
Javanshir, Nima; Syri, Sanna; Tervo, Seela; **Rosin, Argo** Energy 2023 / art. 126423 https://doi.org/10.1016/j.energy.2022.126423 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimization of renewable energy for buildings with energy storages and 15-minute power balance
Savolainen, Rebecka; Lahdelma, Risto Energy 2022 / art. 123046 https://doi.org/10.1016/j.energy.2021.123046 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Overview and future challenges of nearly zero-energy building (nZEB) design in Eastern Europe
Attia, Shady; **Kurnitski, Jarek**; Kosin, Piotr; Borodinecs, Anatolijs; Belafi, Zsofia 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

Parameter estimation of PEM fuel cells employing the hybrid grey wolf optimization method
Miao, Di; Chen, Wei; Zhao, Wei; **Demsas, Tekle** Energy 2020 / Art. 116616 https://doi.org/10.1016/j.energy.2019.116616 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Peak shaving of a district heated office building with short-term thermal energy storage in Finland
Ju, Yuchen; **Jokisalo, Juha**; **Kosonen, Risto** Buildings 2023 / art. 573, 23 p. : ill https://doi.org/10.3390/buildings13030573 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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.jobe.2022.104951 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Performance of modern passive stack ventilation in a retrofitted Nordic apartment building
Kravchenko, Ilia; **Kosonen, Risto**; **Jokisalo, Juha**; Kilpeläinen, Simo Buildings 2022 / art. 96, 27 p. : ill https://doi.org/10.3390/buildings12020096 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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**; **Võsa, 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 Aericle at WOS

Power plant fuel consumption rate during load cycling
Nešumajev, Dmitri; **Rummel, Leo**; **Konist, Alar**; **Ots, Arvo**; **Parve, Teet** Applied energy 2018 / p. 124-135 : ill https://doi.org/10.1016/j.apenergy.2018.04.063 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Process development for 3D laser lithography
Kaste, N.; Filbert, A.; Mescheder, U.; **Rang, Toomas**; **Rang, Galina** High performance and optimum design of structures and materials 2014 / p. 139-150 : ill https://doi.org/10.2495/HPSM140131 Conference proceedings at Scopus Article at Scopus

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

Quick protocol for integrating the attribute information of unstructured point cloud data into a solar envelope simulation
Alkadri, Miktha Farid; **De Luca, Francesco**; Turrin, Michela; Agung, Muhammad Rafif Cahyadi Journal of green building 2023 / p. 3-15 : ill https://doi.org/10.3992/jgb.18.4.3 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

Realisation of energy performance targets of an old apartment building renovated to nZEB
Hamburg, Anti; **Kuusk, Kalle**; **Mikola, Alo**; **Kalamees, Targo** Energy 2020 / art. 116874, 10 p. : ill https://doi.org/10.1016/j.energy.2019.116874 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Renovation alternatives to improve energy performance of historic rural houses in the Baltic Sea region
Alev, Üllar; Eskola, Lari; **Arumägi, Endrik**; **Kalamees, Targo** Energy and buildings 2014 / p. 58-66 : ill https://doi.org/10.1016/j.enbuild.2014.03.049 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Retrofit cost-effectiveness : Estonian apartment buildings
Kuusk, Kalle; **Kalamees, Targo** Building research & information 2016 / p. 920-934 : ill https://doi.org/10.1080/09613218.2016.1103117 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reverse solar envelope method. A new building form-finding method that can take regulatory frameworks into account
De Luca, Francesco; Dogan, Timur; **Sepulveda Luque, Abel** Automation in construction 2021 / art. 103518, 18 p. : ill https://doi.org/10.1016/j.autcon.2020.103518 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Risk of microbial growth in ventilation ductwork located in the humid and cold conditions
Kravchenko, Ilia; Pasanen, Pertti; Lestinen, Sami; Kilpeläinen, Simo; **Kosonen, Risto** Buildings 2023 / art. 1683, 14 p. : ill https://doi.org/10.3390/buildings13071683 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Robotically placed reinforcement using the automated screwing device – an application perspective for 3D concrete printing
Hass, Lauri; Bos, Freek Third RILEM International Conference on Concrete and Digital Fabrication : Digital Concrete 2022 2022 / p. 417 - 423 https://doi.org/10.1007/978-3-031-06116-5_62 Article collection metrics at Scopus Article at Scopus

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

Simulated influence of indoor climate and ventilation on schoolwork performance in Estonian manor schools
Kalamees, Targo; **Väli, Alan**; **Kallavus, Urve**; **Kurik, Lembit**; **Alev, Üllar** International journal of ventilation 2015 / p. 153-164 : ill https://doi.org/10.1080/14733315.2015.11684077 Journal metrics at Scopus Article at Scopus

Small low-temperature district heating network development prospects
Volkova, Anna; **Krupenski, Igor**; Pieper, Henrik; Ledvanov, Aleksandr; **Latõšov, Eduard**; **Siirde, Andres** Energy 2019 / p. 714-722 https://doi.org/10.1016/j.energy.2019.04.083 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 / p. 1030 - 1046 https://doi.org/10.1016/j.foar.2023.07.001 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Statistical analysis of reinforced concrete bridges in Estonia
Sein, Sander; Campos Matos, Jose; **Idnurm, Juhan** The Baltic journal of road and bridge engineering 2017 / p. 223–233 : ill http://hdl.handle.net/1822/53582 http://www.ester.ee/record=b2222369*est https://doi.org/10.3846/bjrbe.2017.28 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Strength- and moisture-related studies of historical building materials: A case study from Southern Estonia
Gineiko, Aljona; **Kiviste, Mihkel** Buildings 2024 / art. 3565 https://doi.org/10.3390/buildings14113565 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Superpave pavement design temperatures in Estonia
Kontson, Karli; **Lill, Kristjan**; **Aavik, Andrus** The Baltic journal of road and bridge engineering 2023 / p. 190-204 https://doi.org/10.7250/bjrbe.2023-18.603 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

Tall buildings cluster form rationalization in a Nordic climate by factoring in indoor-outdoor comfort and energy
De Luca, Francesco; Naboni, Emanuele; Lobaccaro, Gabriele Energy and buildings 2021 / art. 110831, 16 p. : ill https://doi.org/10.1016/j.enbuild.2021.110831 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Techno-economic analysis and energy forecasting study of domestic and commercial photovoltaic system installations in Estonia
Shabbir, Noman; **Kütt, Lauri**; **Raja, Hadi Ashraf**; Jawad, Muhammad; Allik, Alo; **Husev, Oleksandr** Energy 2022 / art. 124156 https://doi.org/10.1016/j.energy.2022.124156 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Techno-economic analysis of a 5th generation district heating system using thermo-hydraulic model : a multi-objective analysis for a case study in heating dominated climate
Saini, Puneet; Huang, Pei; Fiedler, Frank; **Volkova, Anna**; Zhang, Xingxing Energy and buildings 2023 / art. 113347 https://doi.org/10.1016/j.enbuild.2023.113347 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Tensile analysis and assessment of carbon and alloy steels using FE approach as an idealization of material fractures under collision and grounding
Ridwan; Prabowo, Aditya Rio; Muhayat, Nurul; **Putranto, Teguh**; Sohn, Jung Min Curved and Layered Structures 2020 / p. 188-198 https://doi.org/10.1515/cls-2020-0016 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The effect of flanking element length in thermal bridge calculation and possible simplifications to account for combined thermal bridges in well insulated building envelopes
Hallik, Jaanus; **Kalamees, Targo** Energy and buildings 2021 / art. 111397 https://doi.org/10.1016/j.enbuild.2021.111397 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The effects of production technologies on the air permeability and crack development of cross-laminated timber
Kukk, Villu; **Kalamees, Targo**; **Kers, Jaan** Journal of building physics 2019 / p. 171-186 : ill https://doi.org/10.1177/1744259119866869 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The impact of energy renovation on continuously and intermittently heated residential buildings in Southern Europe

Wang, Yangmin; Hirvonen, Janne; Qu, Ke; **Jokisalo, Juha**; **Kosonen, Risto** Buildings 2022 / art. 1316, 33 p. : ill https://doi.org/10.3390/buildings12091316 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Towards sustainable construction practices : how to reinvigorate vernacular buildings in the digital era?
Priavolou, Christina; **Tsiouris, Nikiforos**; Niaros, Vasileios; **Kostakis, Vasileios** Buildings 2021 / art. 297 https://doi.org/10.3390/buildings11070297 Journal metrics at Scopus Article at Scopus Journal metriics 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

Ultimate strength assessment of stiffened panels using Equivalent Single Layer approach under combined in-plane compression and shear
Putranto, Teguh; **Kõrgesaar, Mihkel**; Jelovica, Jasmin Thin-Walled Structures 2022 / art. 109943 https://doi.org/10.1016/j.tws.2022.109943 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Unified methodology for estimating efficiency of traffic calming measures - example of Estonia
Ess, Juri; **Antov, Dago** The Baltic journal of road and bridge engineering 2016 / p. 259-265 https://doi.org/10.3846/bjrbe.2016.30 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Unmanned aerial vehicle surveying for monitoring road construction earthworks
Julge, Kalev; **Ellmann, Artu**; **Köök, Romet** The Baltic journal of road and bridge engineering 2019 / p. 1-17 : ill https://doi.org/10.7250/bjrbe.2019-14.430 http://www.ester.ee/record=b2222369*est https://journals.vgtu.lt/index.php/BJRBE Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Use of smartphone accelerometers for winter road maintenance improvement in urban areas
Kõrbe Kaare, Kati; **Koppel, Ott**; Kuhi, Kristjan Urban transport XIX 2013 / p. 253-263 : ill https://doi.org/10.2495/UT130201 Conference Proceedings at Scopus Article at Scopus

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

Wetting circumstances, expected moisture content, and drying performance of CLT end-grain edges based on field measurements and laboratory analysis
Kalbe, Kristo; **Kalamees, Targo**; **Kukk, Villu**; **Ruus, Aime**; **Annuk, Alvar** Building and environment 2022 / art. 109245 https://doi.org/10.1016/j.buildenv.2022.109245 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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