

**Accuracy assessment of RTK-GNSS equipped UAV conducted as-built surveys for construction site modelling**

Varbla, Sander; Puust, Raido; Ellmann, Artu Survey review 2021 / p. 477-492 <https://doi.org/10.1080/00396265.2020.1830544>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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](#)

**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](#)

**Advancements in underground mine surveys by using SLAM-enabled handheld laser scanners**

Ellmann, Artu; Kütimets, Kaia; Varbla, Sander; Väli, Erik; Kanter, Sander Survey review 2022 / p. 363-374  
<https://doi.org/10.1080/00396265.2021.1944545> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advancing ecohydraulics and ecohydrology by clarifying the role of their component interdisciplinary**

Gosselin, Marie-Pierre; Ouellet, Valerie; Harby, Atle; Nestler, John Journal of ecohydraulics 2019 / p. 172-187  
<https://doi.org/10.1080/24705357.2019.1658137> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Aggregation ready flexibility management methods for mechanical ventilation systems in buildings**

Maask, Vahur; Rosin, Argo; Korötko, Tarmo; Thalfeldt, Martin; Syri, Sanna; Ahmadihangar, 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 pocket dynamics under bridging of stratified flow during rapid filling of a horizontal pipe**

Kaur, Katrin; Laanearu, Janek; Annus, Ivar Journal of hydraulic engineering 2023 / art. 04022030, 11 p. : ill  
[https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0002021](https://doi.org/10.1061/(ASCE)HY.1943-7900.0002021) [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; Laukkanen, 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](#)

**An orthotropic material model for steel fibre reinforced concrete based on the orientation distribution of fibres**

Eik, Marika; Puttonen, Jari; Herrmann, Heiko Composite structures 2015 / p. 324-336 : ill  
<https://doi.org/10.1016/j.compstruct.2014.11.018> [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](#)

**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**  
**Ahmadihangar, 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 of equivalent single layer approach for ultimate strength analyses of ship hull girder**  
**Putranto, Teguh; Kõrgesaar, Mihkel; Tabri, Kristjan** Journal of marine science and engineering 2022 / art. 1530 <https://doi.org/10.3390/jmse10101530> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Application of shore sediments accumulated in navigation channel for restoration of sandy beaches around Pärnu City, SW Estonia, Baltic Sea**  
**Tõnisson, Hannes; Männikus, Rain; Kont, Are; Palginõmm, Valdeko; Alari, Victor; Suuroja, Sten; Vaasma, Tiit; Vilumaa, Kadri** Journal of marine science and engineering 2024 / art. 394 <https://doi.org/10.3390/jmse12030394> [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](#)

**Assessment of along-normal uncertainties for application to terrestrial laser scanning surveys of engineering structures**  
**Mill, Tarvo; Ellmann, Artu** Survey review 2019 / p. 1-16 : ill <https://doi.org/10.1080/00396265.2017.1361565> [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](#)

**Behaviour of tungsten alloy with iron and nickel under repeated high temperature plasma pulses**  
**Laas, T.; Laas, K.; Paju, J.; Priimets, Jaanis; Tõkke, Siim; Väli, B.; Shirokova, Veroonika; Antonov, Maksim; Gribkov, V.A.; Demina, E.V.; Pimenov, V.N.; Paduch, M.; Matulka, R.; Akel, M.** Fusion engineering and design 2020 / art. 111408 <https://doi.org/10.1016/j.fusengdes.2019.111408> [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](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 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](#)

**Calculation method for plates with discrete variable thickness under uniform loading or hydrostatic pressure**  
**Aryassov, G.; Gornostajev, Dmitri; Penkov, Igor** International journal of applied mechanics and engineering 2018 / p. 835–853  
<https://doi.org/10.2478/ijame-2018-0046> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Capacity reliability of water distribution systems**  
**Vaabel, Joonas; Koppel, Tiit; Ainola, Leo; Sarv, Laur** Journal of Hydroinformatics 2014 / p. 731-741  
<https://doi.org/10.2166/hydro.2013.040> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Case-study analysis of concrete large-panel apartment building at pre- and post low-budget energy-renovation**  
**Kuusk, Kalle; Kalamees, Targo; Link, Siim; Ilomets, Simo; Mikola, Alo** Journal of civil engineering and management 2017 / p. 67-75 : ill <https://doi.org/10.3846/13923730.2014.975741> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics 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 in strain gradient elasticity: An internal variables approach**  
**Berezovski, Arkadi** Mechanics research communications 2022 / art. 103997 <https://doi.org/10.1016/j.mechrescom.2022.103997> [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](#)

**Characterization of the applied materials for floating offshore wind turbine members: A review on the current state**  
**Wijaya, Muhammad Rizky Arga; Adiputra, Ristiyanto; Aditya Rio, Prabowo; Putranto, Teguh; Smaradhana, Dharu Feby** Procedia Structural Integrity, vol 37 2023 / p. 41-49 : ill <https://doi.org/10.1016/j.prostr.2023.07.108> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Characterizing energy flexibility of buildings with electric vehicles and shiftable appliances on single building level and aggregated level**  
**Azizi, Elnaz; Ahmadihangar, Roya; Rosin, Argo; Bolouki, Sadegh** Sustainable cities and society 2022 / art. 103999  
<https://doi.org/10.1016/j.scs.2022.103999> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Characterizing the bond properties of automatically placed helical reinforcement in 3D printed concrete**  
**Hass, Lauri; Bos, F.P.; Salet, T.A.M.** Construction and building materials 2022 / art. 129228, 16 p. : ill  
<https://doi.org/10.1016/j.conbuildmat.2022.129228> [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](#)

**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](#)

**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; Džiuvė, 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](#)

### **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](https://doi.org/10.1007/978-981-97-1514-5_8) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **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](#)

### **Conceptualising building information modelling for construction education**

**Olowa, Theophilus Oluwarotimi Olatunde**; **Witt, Emlyn David Qivitoq**; **Lill, Irene** Journal of civil engineering and management 2020 / p. 551-563 <https://doi.org/10.3846/jcem.2020.12918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Convergence theorem for the Haar wavelet based discretization method**

**Majak, Jüri**; **Shvartsman, Boris**; **Kirs, Maarjus**; **Pohlak, Meelis**; **Herranen, Henrik** Composite structures 2015 / p. 227-232 <https://doi.org/10.1016/j.compstruct.2015.02.050> [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](#)

### **Coordinated optimization of parameters of PSS and UPFC-PODCs to improve small-signal stability of a power system with renewable energy generation**

**He, Ping**; **Shen, Runjie**; **Wen, Fushuan**; **Pan, Qi** Journal of energy engineering 2021 / p. 04020089-1-04020089-11 : ill [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000737](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000737) [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/comfort-oriented clustering-based extended time of use pricing**

**Azizi, Elnaz**; **Shotorbani, R.**; **Ahmadihangar, Roya**; **Mohammadi-Ivatloo, B.**; **Rosin, Argo**; **Sadiq, R.** Sustainable cities and society 2021 / art. 102673, 10 p. : ill <https://doi.org/10.1016/j.scs.2020.102673> [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](#) [Article 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.; Abdumumin, 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](#)

**Cross-cultural differences in driver aggression, aberrant, and positive driver behaviors**

Ersan, Özlem; Üzümcüoğlu, Yesim; Azık, Derya; **Pashkevich, Anton; Pashkevich, Maria** Transportation research part F: traffic psychology and behaviour 2020 / p. 88-97 <https://doi.org/10.1016/j.trf.2020.03.020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Cross-shore profile evolution after an extreme erosion event—Palanga, Lithuania**

Kelpšaitė-Rimkienė, Loreta; **Parnell, Kevin Ellis; Žaromskis, Rimas; Kondrat, Vitalijus** Journal of marine science and engineering 2021 / art. 38, p. 1–15 : ill <https://doi.org/10.3390/jmse9010038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Damping characteristics of interconnected power systems with wind-photovoltaic-thermal-bundled power transmitted by AC/DC systems**

He, Ping; Li, Zhao; Zheng, Mingming; **Wen, Fushuan;** Ji, Yugi; Wu, Xinxin Journal of energy engineering 2021 / p. 04021029-1-04021029-10 : ill [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000765](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000765) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Day-ahead economical planning of multi-vector energy district considering demand response program**

Ghasemi-Marzbali, Ali; Shafiei, Mohammad; **Ahmadihangar, Roya** Applied energy 2023 / art. 120351 <https://doi.org/10.1016/j.apenergy.2022.120351> [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; Teittinene, 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](#)

**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](#)

#### **Digital-toolkit for promoting tourist destinations**

**Prokopenko, Olha;** Larina, Yaroslava; Chetveryk, Olena; Kravtsov, Sergiy; Rozhko, Nataliya; Lorvi, Iryna International journal of innovative technology and exploring engineering 2019 / p. 4982-4987 : ill <https://doi.org/10.35940/ijitee.L3745.1081219> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Direct aqueous carbonation on olivine at a CO<sub>2</sub> 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](#)

**Discussion of "Rigid Water Column Model for Simulating the Emptying Process in a Pipeline Using Pressurized Air" by Oscar E. Coronado-Hernández, Vicente S. Fuertes-Miquel, Pedro L. Iglesias-Rey, and Francisco J. Martínez-Solano**  
Hou, Qingzhi; Li, Shunda; Tijsseling, Arris S.; **Laanearu, Janek** Journal of hydraulic engineering 2020 / art. 07020001, 6 p. : ill  
[https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001682](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001682) [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](#)

#### **Driver profiles based on values and traffic safety climate and their relationships with driver behaviors**

Kaçan, Bilgesu; Fındık, Gizem; Üzümcüoğlu, Yeşim; **Pashkevich, Anton; Pashkevich, Maria** Transportation research part F : traffic psychology and behaviour 2019 / p. 246-259 <https://doi.org/10.1016/j.trf.2019.05.010> [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](#)

#### **Dynamic of tunneled planing hulls in waves**

**Roshan, Fatemeh;** Tavakoli, Sasan; Mancini, Simone; Dashtimanesh, Abbas Journal of marine science and engineering 2022 / art. 1038 : ill <https://doi.org/10.3390/jmse10081038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Dynamics of dense gravity currents and mixing in an up-sloping and converging vee-shaped channel**

**Laanearu, Janek;** Cuthbertson, Alan; Davies, Peter A. Journal of hydraulic research 2014 / p. 67-80 : ill  
<https://doi.org/10.1080/00221686.2013.841779> [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 pulsed deuterium plasma irradiation on dual-phase tungsten high-entropy alloys**

Tökke, Siim; Laas, Tõnu; Priimets, Jaanis; **Tarraste, Marek; Mikli, Valdek; Antonov, Maksim** Fusion engineering and design 2022 / 11 p. : ill <https://doi.org/10.1016/j.fusengdes.2022.113260> [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, Iliia; 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.jobbe.2016.02.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Elastic wave Talbot effect in solids with inclusions**

**Berezovski, Arkadi;** Tang, Wen-Xin; Wan, Weishi Mechanics research communications 2014 / p. 21-26 : ill <https://doi.org/10.1016/j.mechrescom.2014.05.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Emissions and power demand in optimal energy retrofit scenarios of the Finnish building stock by 2050**

Hirvonen, Janne; Heljo, Juhani; **Jokisalo, Juha;** Kurvinen, Antti; Saari, Arto; Niemelä, Tuomo; Sankelo, Paula; **Kosonen, Risto** Sustainable cities and society 2021 / art. 102896, 22 p. : ill <https://doi.org/10.1016/j.scs.2021.102896> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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 efficient behavior modeling for demand side recommender system in solar microgrid applications using multi-agent reinforcement learning model**

**Onile, Abiodun Emmanuel; Belikov, Juri;** Levron, Yoash; **Petlenkov, Eduard** Sustainable cities and society 2023 / art. 104392, 20 p. : ill <https://doi.org/10.1016/j.scs.2023.104392> [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 trading and management strategies in a regional integrated energy system with multiple energy carriers and renewable-energy generation**

Wang, Yizheng; Jiang, Chenwei; **Wen, Fushuan;** Xue, Yusheng; Chen, Fei; Zhang, Lijun; Yuan, Xiang Journal of energy engineering 2021 / p. 04020076-1-04020076-12 : ill [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000726](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000726) [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](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.estel.ee/record=b2222369\\*est](http://www.estel.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, COle optimal, or total energy optimal**  
**Kertsmit, 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 analysis of cross-laminated timber rib panels at normal temperature and in fire**  
Kleinhenz, Miriam; **Just, Alar**; Frangi, Andrea Engineering structures 2021 / art. 113091, 14 p. : ill <https://doi.org/10.1016/j.engstruct.2021.113091> [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 investigation on rapid filling of a large-scale pipeline**  
Hou, Qingzhi; Tijsseling, Arris S.; **Laanearu, Janek**; **Annus, Ivar**; **Koppel, Tiit** Journal of hydraulic engineering 2014 / art. 04014053, p. 1-14 : ill [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0000914](https://doi.org/10.1061/(ASCE)HY.1943-7900.0000914) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental investigations on stiffened and Web-core sandwich panels made for steel under quasi-static penetration**  
Romanoff, Jani; **Körgeaar, Mihkel**; Lehto, Pauli; Bertsson, Kennie; Remes, Heikki Procedia Structural Integrity, Vol. 37, C 2021 / p. 17-24 : ill <https://doi.org/10.1016/j.prostr.2022.01.055> [Conference proceedings at Scopus](#) [Article at Scopus](#) [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.job.2020.101752> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Failure consequence evaluation of uncontrollable district heating network**  
Mao, Ding; Wang, Peng; **Ju, Yuchen**; Ni, Long Sustainable cities and society 2022 / art. 103593, 16 p. : ill <https://doi.org/10.1016/j.scs.2021.103593> [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](#)

**Fractional-order modeling and control of ionic polymer-metal composite actuator**  
**Tepljakov, Aleksei**; Vunder, Veiko; **Petlenkov, Eduard**; Nakshatharan, S Sunjai; Punning, Andres; **Kaparin, Vadim**; **Belikov, Juri**; Aabloo, Alvo Smart materials and structures 2019 / 12 p. : ill <https://doi.org/10.1088/1361-665X/ab2c75> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fracture and Damage to the Material accounting for Transportation Crash and Accident**  
Ridwan; **Putranto, Teguh**; Laksono, Fajar Budi; Prawobo, Aditya Rio Procedia Structural Integrity, vol. 27 2020 / p. 38-45 <https://doi.org/10.1016/j.prostr.2020.07.006> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Full field computing for elastic pulse dispersion in inhomogeneous bars**  
**Berezovski, Arkadi**; Kolman, Radek; Berezovski, Mihail; Gabriel, Dusan; Adámek, V. Composite structures 2018 / p. 388-394 : ill <https://doi.org/10.1016/j.compstruct.2018.07.055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Geodesic equations for guided wave helical path separation for a pipe bend**

**Rasgado Moreno, Carlos Omar; Ratassepp, Madis** Mechanical systems and signal processing 2023 / art. 110820

<https://doi.org/10.1016/j.ymssp.2023.110820> [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](#)

### **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](#)

### **Hydraulics of vertical-slot fishways: nonuniform profiles**

**Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Eckert, Mario; Romao, F.; Ferreira, Maria Teresa; Kruusmaa, Maarja; Branco, Paulo** Journal of hydraulic engineering 2019 / p. 06018020-1 - 06018020-6 : ill [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001565](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001565) [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](#)

### **Impact of flow-driven debris on coastal structure during tsunami Bore**

**Harish, S.; Sriram, V.; Sundar, V.; Sannasiraj, S.A.; Didenkulova, Irina** Proceedings of the Fourth International Conference in Ocean Engineering (ICOE2018), vol. 2 2019 / p. 315-326 [https://doi.org/10.1007/978-981-13-3134-3\\_24](https://doi.org/10.1007/978-981-13-3134-3_24) [Conference proceedings metrics at Scopus](#) [Article at Scopus](#)

### **Impact of linear thermal bridges on thermal transmittance of renovated apartment buildings**

**Ilomets, Simo; Kuusk, Kalle; Paap, Leena; Arumägi, Endrik; Kalamees, Targo** Journal of civil engineering and management 2017 / p. 96-104 : ill <https://doi.org/10.3846/13923730.2014.976259> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Impact of pulsed deuterium plasma irradiation on dual-phase tungsten alloys**

**Tõkke, Siim; Laas, Tõnu; Priimets, Jaanis; Mikli, Valdek; Antonov, Maksim** Fusion engineering and design 2021 / art. 112215, 10 p. : ill <https://doi.org/10.1016/j.fusengdes.2020.112215> [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](#)

### **Impact pressure on mechanical properties of aluminum based composite by ECAP-parallel channel**

Pramano, Agus; Dhoska, Klodian; Markja, Irida; **Kommel, Lembit** Pollack periodica 2019 / p. 67–74  
<https://doi.org/10.1556/606.2019.14.1.7> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Impacts of lubricating oils on rheology and chemical compatibility of asphalt binders**

Teymourpour, Pouya; **Sillamäe, Sven**; Bahia, Hussain U. Road Materials and Pavement Design 2015 / p. 50 - 74  
<https://doi.org/10.1080/14680629.2015.1030833> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Improvements of series convergence to the rotating-channel flow problem using hydraulic solutions for a parabolic passage**

Lundberg, Peter; **Laanearu, Janek** Journal of hydraulic research 2018 / p. 313-323 : ill <https://doi.org/10.1080/00221686.2017.1354929>  
[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 climate loads for dwellings in different cold climates to assess hygrothermal performance of building envelopes**

**Ilomets, Simo**; **Kalamees, Targo**; Tariku, Fitsum Canadian journal of civil engineering 2019 / p. 963–968 <https://doi.org/10.1139/cjce-2019-0079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **The influence of bathymetry on regional marine geoid modeling in Northern Europe**

**Varbla, Sander** Journal of Marine Science and Engineering 2022 / art. 793, 25 p. : ill <https://doi.org/10.3390/jmse10060793> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Influence of interior layer properties to moisture dry-out of CLT walls**

**Kukk, Villu**; **Külaots, Annegrete**; **Kers, Jaan**; **Kalamees, Targo** Canadian journal of civil engineering 2019 / p. 1001–1009  
<https://doi.org/10.1139/cjce-2018-0591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Influence of nozzle geometry on fluid flow parameters**

**Penkov, Igor**; **Aleksandrov, Dmitri** International journal of applied mechanics and engineering 2020 / p. 215-222 : ill  
<https://doi.org/10.2478/ijame-2020-0060> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Influence of number of layers on embedment strength of dowel-type connections for glulam and cross-laminated timber**

**Tuhkanen, Eero**; Mölder, Joosep; Schickhofer, Gerhard Engineering structures 2018 / p. 361-368 : ill  
<https://doi.org/10.1016/j.engstruct.2018.09.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Influence of rapidly time-varying boundary conditions on the control of two-dimensional elastic pulses in laminates**

**Berezovski, Arkadi**; **Berezovski, Mihail** Mathematics and mechanics of complex systems 2023 / p. 335-348  
<https://doi.org/10.2140/memocs.2023.11.335> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Influence of residual stress on the stability of steel columns at elevated temperatures**

**Kervališvili, Andrei**; **Talvik, Ivar** Journal of civil engineering and management 2017 / p. 292-299 : ill  
<https://doi.org/10.3846/13923730.2015.1068845> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Internal variables associated with microstructures in solids**

**Berezovski, Arkadi** Mechanics research communications 2018 / p. 30-34 <https://doi.org/10.1016/j.mechrescom.2017.07.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Investment analysis of waste heat recovery system installations on ships' engines**

**Olaniyi, Eunice Omolola**; **Prause, Gunnar Klaus** Journal of marine science and engineering 2020 / art. 811, 21 p. : ill  
<https://doi.org/10.3390/jmse8100811> [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, Seshadri; 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**

**Kouvvara, 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](#)

### **Mechanoelectrical impedance of a carbide-derived carbon-based laminate motion sensor at large bending deflections**

**Must, Indrek; Anton, Mart; Viidalepp, Erki; Põldsalu, Inga; Punning, Andres; Aabloo, Alvo** Smart Materials and Structures 2013 / art. 104015 <https://doi.org/10.1088/0964-1726/22/10/104015> [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](#)

### **A method of optimizing fenestration design for daylighting to reduce heating and cooling loads in offices**

**Voll, Hendrik; Seinre, Erkki** Journal of civil engineering and management 2014 / p. 714-723 : ill <https://doi.org/10.3846/13923730.2013.801920> [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; Ahmadihangar, 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 2D wave motion in microstructured solids**

**Sertakov, Ivan; Engelbrecht, Jüri; Janno, Jaan** Mechanics research communications 2014 / p. 42-49 : ill <https://doi.org/10.1016/j.mechrescom.2013.11.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modelling of the human knee joint supported by active orthosis**

**Musalimov, Victor; Monahov, Juri; Tamre, Mart; Rõbak, Dmitri; Sivitski, Alina; Arjassov, Gennadi; Penkov, Igor** International journal of applied mechanics and engineering 2018 / p. 107-120 : ill <https://doi.org/10.1515/ijame-2018-0007> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Modelling of the influence of drained areas on the environment**

**Vassiljev, Anatoli** Proceedings of the Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing : Prague, Czech Republic, 1-4 September 2015 2015 / Paper 280 <https://doi.org/10.4203/ccp.108.280> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **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](#)

### **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 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](#)

### **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 investigation of single and double steps in planing hulls**

**Sulman, Muhammad; Mancini, Simone; Niazmand Bilandi, Rasul** Journal of marine science and engineering 2024 / art. 614

<https://doi.org/10.3390/jmse12040614> [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, Mihail** 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](#)

### **Numerical simulations of grounding scenarios – benchmark study on key parameters in FEM modelling**

**Brubak, Lars; Hu, Zhiqiang; Kõrgesaar, Mihkel; Schipperen, Ingrid; Tabri, Kristjan** Practical Design of Ships and Other Floating

Structures : Proceedings of the 14th International Symposium, PRADS 2019, September 22-26, 2019, Yokohama, Japan, Vol. II 2020 / p. 257-269 [https://doi.org/10.1007/978-981-15-4672-3\\_16](https://doi.org/10.1007/978-981-15-4672-3_16) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **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](#)

### **Oil prices, unemployment and the financial crisis in oil-importing countries : The case of Spain**

**Ordóñez, 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](#)

**On the application of 2D discrete spectral analysis in case of the KP equation**

**Salupere, Andrus; Ratas, Mart** Mechanics research communications 2018 / p. 141-147 : ill <https://doi.org/10.1016/j.mechrescom.2017.08.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**On the influence of internal degrees of freedom on dispersion in microstructured solids**

**Tamm, Kert; Peets, Tanel** Mechanics research communications 2013 / p. 106-111 : ill <https://doi.org/10.1016/j.mechrescom.2012.10.006> [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 pump efficiency in a water distribution system**

**Koor, Margus; Vassiljev, Anatoli; Koppel, Tiit** Proceedings of the Ninth International Conference on Engineering Computational Technology 2014 / Paper 91, p. 1-10 : ill <https://iwaponline.com/ws/article/23/3/1094/93912/Optimization-of-the-operation-of-water> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**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](#)

**Pattern formation of elastic waves and energy localization due to elastic gratings**

**Berezovski, Arkadi; Engelbrecht, Jüri;** Berezovski, Mihail International journal of mechanical sciences 2015 / p. 137-144 : ill <https://doi.org/10.1016/j.ijsmecsci.2015.07.027> [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 and feasibility analysis of electricity price based control models for thermal storages in households**

**Rosin, Argo; Link, Siim; Lehtla, Madis;** Martins, Joao; **Drovtar, Imre; Roasto, Indrek** Sustainable cities and society 2017 / p. 366-374 : ill <https://doi.org/10.1016/j.scs.2017.04.008> [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.jobee.2022.104951> [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 PICSOU 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](#)

**Performance of modern passive stack ventilation in a retrofitted Nordic apartment building**

Kravchenko, Iliia; **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](#)

**Performance prediction of a Hard-Chine Planing Hull by employing different CFD models**

Hosseini, Azim; Tavakoli, Sasan; **Dashtimanesh, Abbas;** Sahoo, Prasanta K.; **Körgeaar, Mihkel** Journal of marine science and engineering 2021 / art. 481, 26 p. : ill <https://doi.org/10.3390/jmse9050481> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Performances of PID and different fuzzy methods for controlling a ball on beam**

**Vu, Trieu Minh; Tamre, Mart; Moezzi, Reza; Mets, Oliver; Jürise, Mart; Pölder, Ahti; Teder, Leo; Juurma, Märt** Open engineering 2016 / p. 145-151 : ill <https://doi.org/10.1515/eng-2016-0018> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **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](#)

### **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](#)

### **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](#)

### **Readiness assessment for BIM-based building permit processes using fuzzy-COPRAS**

**Ullah, Kaleem; Witt, Emlyn David Qivitoq; Lill, Irene; Banaitienė, Nerija; Statulevičius, Mindaugas** Journal of civil engineering and management 2022 / p. 620–633 : ill <https://doi.org/10.3846/jcem.2022.17274> [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](#)

### **Regression models and fuzzy logic prediction of TBM penetration rate**

**Vu, Trieu Minh; Katušin, Dmitri; Antonov, Maksim; Veinthal, Renno** Open engineering 2017 / p. 60-68 : ill <https://doi.org/10.1515/eng-2017-0012> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Relative complex permittivity and its dependence on frequency**

**Giannoukos, Georgios; Min, Mart; Rang, Toomas** World journal of engineering 2017 / p. 532-537 : ill <https://doi.org/10.1108/WJE-01-2017-0007> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Removal of phosphonates from synthetic and industrial wastewater with reusable magnetic adsorbent particles**

**Rott, Eduard; Nouri, Mohammad; Meyer, Carsten; Minke, Ralf; Schneider, Michael; Mandel, Karl; Ivanova Drenkova-Tuhtan, Asya** Water research 2018 / p. 608-617 <https://doi.org/10.1016/j.watres.2018.08.067> [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](#)

### **Residential energy flexibility characterization using non-intrusive load monitoring**

**Azizi, Elnaz; Ahmadihangar, Roya; Rosin, Argo; Martins, Joao; Lopes, Rui Amaral; Beheshti, M. TH.; Bolouki, Sadegh** Sustainable cities and society 2021 / art. 103321, 12 p. : ill <https://doi.org/10.1016/j.scs.2021.103321> [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;** Haghghat, 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, Iliia; 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](#)

**Road users' evaluations and perceptions of road infrastructure, trip characteristics, and daily trip experiences across countries**

**Azık, Derya; Solmazer, Gaye; Ersan, Özlem; Kaçan, Bilgesu; Findık, Gizem; Üzümcüoğlu, Yeşim; Özkan, Türker; Lajunen, Timo; Öz, Bahar; Pashkevich, Anton; Pashkevich, Maria;** Danelli-Mylona, Vassiliki; Georgogianni, Dimitra; Berisha Krasniqi, Ema; Krasniqi, Muhamed; Makris, Evangelos; Shubenkova, Ksenia; Xheladini, Gentianë Transportation Research Interdisciplinary Perspectives 2021 / Art. 100412 <https://doi.org/10.1016/j.trip.2021.100412> [Journal metrics at Scopus](#) [Article at Scopus](#) [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](https://doi.org/10.1007/978-3-031-06116-5_62) [Article collection metrics at Scopus](#) [Article at Scopus](#)

**Safety improvements for high-speed planing craft occupants : A systematic review**

**Roshan, Fatemeh;** Dashtimanesh, Abbas; **Kujala, Pentti Jouko Sakari** Journal of marine science and engineering 2024 / art. 845  
<https://doi.org/10.3390/jmse12050845> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Selective laser melted Ti6Al4V split-P TPMS lattices for bone tissue engineering**

**Rezapourianghahfarokhi, Mansoureh;** Jasiuk, Iwona; **Sarna, Mart; Hussainova, Irina** International journal of mechanical sciences 2023 / art. 108353 <https://doi.org/10.1016/j.ijmecsci.2023.108353> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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](#)

**Shipping decarbonization : an overview of the different stern hydrodynamic energy saving devices**

**Spinelli, Flaminia; Mancini, Simone; Vitiello, Luigi; Niazmand Bilandi, Rasul;** De Carlini, Maria Journal of marine science and engineering 2022 / art. 574 <https://doi.org/10.3390/jmse10050574> [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](#)

**Simulation of the behavior of a ship hull under grounding : effect of applied element size on structural crashworthiness**

**Prabowo, Aditya Rio; Putranto, Teguh;** Sohn, Jung Min Journal of Marine Science and Engineering 2019 / Art. 270  
<https://doi.org/10.3390/jmse7080270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Small low-temperature district heating network development prospects**

**Volkova, Anna; Krupenski, Igor;** Pieper, Henrik; Ledvanov, Aleksandr; **Latšov, 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](#)

**Small unmanned surface vessels — a review and critical analysis of relations to safety and safety assurance of larger autonomous ships**

**Bolbot, Victor; Sandru, Andrei; Saarniemi, Ture; Puolakka, Otto; Kujala, Pentti Jouko Sakari;** Valdez Banda, Osiris A. Journal of marine science and engineering 2023 / art. 2387, 38 p. : ill <https://doi.org/10.3390/jmse11122387> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#) [Article at WOS](#)

**A smart-contract-based adaptive security governance architecture for smart city service interoperability**

**Siddiqui, Shahbaz; Hameed, Sufian; Shah, Syed Attique; Arshad, Junaid; Ahmed, Yussuf; Draheim, Dirk** Sustainable Cities and Society 2024 / art. 105717 <https://doi.org/10.1016/j.scs.2024.105717> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Solitons modelled by Boussinesq-type equations**

**Engelbrecht, Jüri; Peets, Tanel; Tamm, Kert** Mechanics research communications 2018 / p. 62-65

<https://doi.org/10.1016/j.mechrescom.2017.05.008> [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.eester.ee/record=b2222369\\*est](http://www.eester.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](#)

### **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](#)

### **Sustainable conditions for the development of renewable energy systems : a triple bottom line perspective**

Lerman, Laura Visintainer; Benitez, Guilherme Brittes; **Gerstlberger, Wolfgang Dieter;** Rodrigues, Vinícius Picanço; Frank,

Alejandro G. Sustainable cities and society 2021 / art. 103362, 11 p. : ill <https://doi.org/10.1016/j.scs.2021.103362> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **System vibration control using linear quadratic regulator**

**Abdelrahman, Mostafa; Arjassov, Gennadi; Tamre, Mart; Penkov, Igor** International journal of applied mechanics and engineering 2022 / p. 1-8

<https://doi.org/10.2478/ijame-2022-0031> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **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](#)

### **Terrestrial laser scanning for the monitoring of bridge load tests - two case studies**

**Löhmus, Hannes; Ellmann, Artu; Märdla, Silja; Idnurm, Siim** Survey review 2018 / p. 270-284 : ill

<https://doi.org/10.1080/00396265.2016.1266117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The 5 mm geoid model for Estonia computed by the least squares modified Stokes's formula**

**Ellmann, Artu;** Märdla, Silja; Oja, Tõnis Survey review 2020 / p. 352-372 : ill <https://doi.org/10.1080/00396265.2019.1583848> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The effect of approximation accuracy of the orientation distribution function on the elastic properties of short fibre reinforced composites**

Eik, Marika; Puttonen, Jari; **Herrmann, Heiko** Composite structures 2016 / p. 12-18 : ill <https://doi.org/10.1016/j.compstruct.2016.03.046>

[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 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](#)

### **The relationship between self and other in aggressive driving and driver behaviors across countries**

Ersan, Özlem; Üzümcüoğlu, Yeşim; Azık, Derya; **Pashkevich, Anton; Pashkevich, Maria** Transportation research part F: traffic psychology and behaviour 2019 / p. 122-138 <https://doi.org/10.1016/j.trf.2019.08.020> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

### **Throughput estimation with regard to airtime consumption unfairness in mixed data rate Wi-Fi networks**

Abdul-Hadi, Alaa Mohammed; Tarasyuk, Olga; Gorbenko, Anatoliy; Kharchenko, Vyacheslav; **Hollstein, Thomas** Communications - Scientific Letters of the University of Žilina 2014 / p. 84-89 : ill <https://komunikacie.uniza.sk/pdfs/csl/2014/01/15.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Toward the application of the layer-wise displacement theory in passenger ships - a quasi-static response**

**Imala, Mikk-Markus; Naar, Hendrik; Tabri, Kristjan**; Romanoff, Jani Mechanics of Advanced Materials and Structures 2023 / p. 4698-4710 <https://doi.org/10.1080/15376494.2022.2103859> [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?**

**Priavoulou, 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 metrics at WOS](#) [Article at WOS](#)

### **Tradition and innovation : Between dynamics and tensions**

Ferreiro, Maria de Fátima; Sheikh, Fayaz Ahma; **Reidolf, Merli**; Sousa, Cristina; Bhaduri, Saradindu African Journal of Science, Technology, Innovation and Development 2019 / p. 533-542 : ill <https://doi.org/10.1080/20421338.2018.1558743> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Two-Stage Self-Healing Restoration Strategy Considering Operating Performance**

Pang, Kaiyuan; Wang, Chongyu; **Wen, Fushuan; Palu, Ivo**; Feng, Changsen; Yang, Zeng; Chen, Minghui; Zhao, Hongwei; Shang, Huiyu Journal of Energy Engineering 2020 [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000683](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000683) [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; Körgesaar, 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](#)

### **The underwater soundscape at Gulf of Riga marine-protected areas**

**Prawirasasra, Muhammad Saladin; Mustonen, Mirko; Klauson, Aleksander** Journal of marine science and engineering 2021 / 17 p. : ill <https://doi.org/10.3390/jmse9080915> [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](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**

**Körbe 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](#)

### **Use of the real-time demands for calibration of water distribution systems**

**Vassiljev, Anatoli; Koppel, Tiit** Proceedings of the Fourteenth International Conference on Civil, Structural and Environmental Engineering Computing 2013 / p. 1-9 : ill [Paper 233] <https://www.ctresources.info/ccp/paper.html?id=7566> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Using machine learning methodology to model nutrient discharges from ports: a case study of a fertilizer terminal**

Lappalainen, Suvi-Tuuli; **Kotta, Jonne; Tombak, Mari-Liis; Tapaninen, Ulla Pirita** Journal of marine science and engineering 2024 / 12 p., ill <https://doi.org/10.3390/jmse12010143> <https://www.mdpi.com/2077-1312/12/1/143> [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; Kuk, 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](#)