

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

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

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

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

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

Kiil, Martin; Simson, Raimo; Thalfeldt, Martin; Kurnitski, Jarek Atmosphere 2020 / art. 127, 21 p. : ill <https://doi.org/10.3390/atmos11020127> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Eesti teadlase uus meetod maandab tõmbus- ja nakkusriski

Harrik, Airika novaator.err.ee 2025 <https://novaator.err.ee/1609794054/eesti-teadlase-uus-meetod-maandab-tõmbus-ja-nakkusriski> <https://digikogu.taltech.ee/et/Item/e12facc0-069c-455a-b91b-ed472db43f80>

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

Ejaz, Muhammad Farhan; Kilpeläinen, Simo; Mikola, Alo; Kiil, Martin; Kurnitski, Jarek; Kosonen, Risto E3S Web of Conferences : Roomvent Conference 2024 2024 / 5 p <https://invitepeople.com/public/events/fe41371a0b/pages/ed19d3ae89>

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

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

The impact of infiltration on heating systems dimensioning in Estonian climate

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

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

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

Overheating and air velocities in modern office buildings during heating season

Kiil, Martin; Simson, Raimo; Thalfeldt, Martin; Kurnitski, Jarek Indoor air 2024 / art. 992937, 20 p. <https://doi.org/10.1155/2024/992937> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overheating and daylighting evaluation for free-running classroom designs

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

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

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

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

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

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](#)

Respiratory infection risk based ventilation and room conditioning design method with year-round thermal comfort

control in modern office buildings

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

Respiratory infection risk-based ventilation design method

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

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

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

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

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

Ventilation effectiveness and incomplete mixing in air distribution design for airborne transmission

Kiil, Martin; Mikola, Alo; Vösa, Karl-Villem; Simson, Raimo; Kurnitski, Jarek Building and environment 2025 / art. 112207 <https://doi.org/10.1016/j.buildenv.2024.112207>

Ventilation effectiveness in classroom infection risk control

Kiil, Martin; Valgma, Ingo; Vösa, Karl-Villem; Simson, Raimo; Mikola, Alo; Tark, Teet; Kurnitski, Jarek E3S Web of Conferences : 11th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, IAQVEC2023 2023 / art. 01043, 8 p <https://doi.org/10.1051/e3sconf/202339601043> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Ventilation effectiveness measurements and CFD simulations in classrooms for infection risk control

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