Jakub Kolarik - Research outputs - DTU Orbit (25/06/2019)

**Energiforbrug og bygningsautomatik**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Communication

**indeklima**
Kolarik, J., 2018, EnDrIn FM-Lærebog. 48 p.
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2018 › Education

**International undersøgelse af krav og praksis for boligventilation**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Communication

**Potential of mechanical ventilation for reducing overheating risks in retrofitted Danish apartment buildings from the period 1850-1890 – A simulation-based study**
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

**The effects of cement-based and cement-ash-based mortar slabs on indoor air quality**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Using the PASSYS cell for model-to-model comparison of hygrothermal building envelope simulation tools**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review

**Design and operation of ventilation in low energy residences – A survey on code requirements and building reality from six European countries and China**
Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review

**Indoor air quality in mechanically ventilated residential dwellings/low-rise buildings: A review of existing information**
Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review

**Numerical analysis of the potential of using light radiant ceilings in combination with diffuse ventilation to achieve thermal comfort in NZEB buildings**
Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review

**Visual Comfort Evaluation in Residential Buildings: a Simulation-Based Study**
Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review

**An International Project on Indoor Air Quality Design and Control in Low Energy Residential Buildings**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review
Challenging the assumptions for thermal sensation scales
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Effect of building renovation on energy use and indoor environment: Comparison of simulations and measurements in six apartment buildings
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

IEA Project on Indoor Air Quality Design and Control In Low Energy Residential Buildings
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Key figures for joint assessment of indoor environmental quality (IEQ) and energy consumption in modern buildings – a literature review
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Sensory ratings of emissions from nontraditional building materials
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Thermo Active Building Systems (TABS) - Performance in practice and possibilities for optimization
Kolarik, J., 2016, Technical University of Denmark, Department of Civil Engineering. 70 p. (DTU Byg Sagsrapport; No. SR-16-04 (DK)).
Research output: Book/Report › Report – Annual report year: 2016 › Research

Unsteady-state human-body exergy consumption rate and its relation to subjective assessment of dynamic thermal environments
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Agent-Based Decision Control—How to Appreciate Multivariate Optimisation in Architecture
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2016 › Research › peer-review

Field measurements of perceived air quality and concentration of volatile organic compounds in four offices of the university building
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Indoor environment and energy consumption optimization using field measurements and building energy simulation
Christensen, J. E., Chasapis, K., Gazovic, L. & Kolarik, J., 2015, In : Energy Procedia. 78, p. 2118-2123
Research output: Contribution to journal › Conference article – Annual report year: 2015 › Research › peer-review
Influence of measurement uncertainty on classification of thermal environment in buildings according to European Standard EN 15251
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Operative temperature drifts and occupant satisfaction with thermal environment in three office buildings using radiant heating/cooling system
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Using measured indoor environment parameters for calibration of building simulation model - a passive house case study
Research output: Contribution to journal › Conference article – Annual report year: 2016 › Research › peer-review

CO2 sensor versus Volatile Organic Compounds (VOC) sensor – analysis of field measurement data and implications for demand controlled ventilation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Investigating peoples’ preferences of automated indoor climate control facilities
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Seasonal differences in human responses to increasing temperatures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Waste-based materials; capability, application and impact on indoor environment – literature review
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

ZeroWaste BYG: Hygro-thermal conditions and pollutant emissions from ZeroWaste materials and their effects on humans
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

ZeroWaste BYG: Redesigning construction materials towards zero waste society
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Field Measurements of Perceived Air Quality in the Test-Bed for Innovative Climate Conditioning Technologies
Research output: Contribution to conference › Paper – Annual report year: 2013 › Research › peer-review
Demand specifying variables and current ventilation rate requirements with respect to the future use of voc sensing for dcv control
Research output: Contribution to conference › Paper – Annual report year: 2012 › Research › peer-review

Impacts of a clay plaster on indoor air quality assessed using chemical and sensory measurements
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

The impact of a photocatalytic paint on indoor air pollutants: Sensory assessments
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

A relation between calculated human body exergy consumption rate and subjectively assessed thermal sensation
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Effects on perceived air quality of a photocatalytic cement-based paint tested under steady-state and transient conditions
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Exergy analysis: The effect of relative humidity, air temperature and effective clothing insulation on thermal comfort
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Impacts Of Passive Removal Materials On Indoor Air Quality
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Simulation of energy use, human thermal comfort and office work performance in buildings with moderately drifting operative temperatures
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Subjective thermal sensation and human body exergy consumption rate: analysis and correlation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

An investigation on the assessed thermal sensation and human body exergy consumption rate
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Can a photocatalytic air purifier be used to improve the perceived air quality indoors?
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review