Publications:

Analysis and validation of a quasi-dynamic model for a solar collector field with flat plate collectors and parabolic trough collectors in series for district heating
Publication: Research - peer-review › Journal article – Annual report year: 2018

Thermo-active building systems and sound absorbers: Thermal comfort under real operation conditions
Köhler, B., Rage, N., Chigot, P. & Hviid, C. A. 2018 In : Building and Environment. 128, p. 143-152
Publication: Research - peer-review › Journal article – Annual report year: 2018

Yearly thermal performances of solar heating plants in Denmark – Measured and calculated
Publication: Research - peer-review › Journal article – Annual report year: 2018

Achieving low return temperature for domestic hot water preparation by ultra-low-temperature district heating
Publication: Research - peer-review › Journal article – Annual report year: 2017

Publication: Research - peer-review › Paper – Annual report year: 2017

Annual measured and simulated thermal performance analysis of a hybrid solar district heating plant with flat plate collectors and parabolic trough collectors in series
Publication: Research - peer-review › Journal article – Annual report year: 2017

A numerical model to evaluate the flow distribution in a large solar collector field
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Science Cloud for Smart Cities Research
Publication: Research - peer-review › Conference article – Annual report year: 2017

CITIESData: a smart city data management framework
Publication: Research - peer-review › Journal article – Annual report year: 2017

Comparison of Low-temperature District Heating Concepts in a Long-Term Energy System Perspective
Publication: Research - peer-review › Journal article – Annual report year: 2017

Comparison of luminance based metrics in different lighting conditions
Wienold, J., Kuhn, T. E., Christoffersen, J., Sarey Khanie, M. & Andersen, M. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017
Design and operation of ventilation in low energy residences – A survey on code requirements and building reality from six European countries and China
Publication: Research - peer-review › Paper – Annual report year: 2017

Development and validation of a detailed TRNSYS-Matlab model for large solar collector fields for district heating applications
Publication: Research - peer-review › Journal article – Annual report year: 2017

Energirenovering af større bygninger - metode og proces
Publication: Research - peer-review › Book – Annual report year: 2017

Evaluating economic and environmental aspects of using solar panels on multi-angled facades of office buildings
Publication: Research - peer-review › Conference article – Annual report year: 2017

Evaluating the Integration of Architectural Solutions such as Multi-Angled Facades in Specific Urban Contexts
Hannoudi, L. A., Lauring, M. & Christensen, J. E. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

Evaluation of the renovation of a Danish single-family house based on measurements
Publication: Research - peer-review › Journal article – Annual report year: 2017

Full Scale Measurements and CFD Investigations of a Wall Radiant Cooling System Based on Plastic Capillary Tubes in Thin Concrete Walls
Publication: Research - peer-review › Journal article – Annual report year: 2017

How does sustainability certification affect the design process? Mapping final design projects at an architectural office
Publication: Research - peer-review › Journal article – Annual report year: 2017

Implementation of Energy Strategies in Communities (Annex 63) Volume 1: Inventory of measures
Publication: Research › Report – Annual report year: 2017
Implementation of Energy Strategies in Communities (Annex 63) Volume 2: Development of strategic measures
Publication: Research - peer-review › Report – Annual report year: 2017

Improving thermal performance of an existing UK district heat network: a case for temperature optimization
Publication: Research - peer-review › Journal article – Annual report year: 2017

Incentives and barriers for wind power expansion and system integration in Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2017

Indoor air quality in mechanically ventilated residential dwellings/low-rise buildings: A review of existing information
Aganovic, A., Hamon, M., Kolarik, J. & Cao, G. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

Integrated Energy Design and Life Cycle Assessment in Design Processes for Refurbishment
Landgren, M. & Jensen, L. B. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

Intelligent Scheduling of a Grid-Connected Heat Pump in a Danish Detached House
Gianniou, P., Foteinaki, K., Heller, A. & Rode, C. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

Low Temperature District Heating for Future Energy Systems
Publication: Research - peer-review › Journal article – Annual report year: 2017

Mapping the communication of engineering knowledge using visuals to improve interdisciplinary design team performance for sustainable building design
Publication: Research - peer-review › Conference article – Annual report year: 2017

Method for achieving hydraulic balance in typical Chinese building heating systems by managing differential pressure and flow
Publication: Research - peer-review › Journal article – Annual report year: 2017

Method for planning extensive energy renovation of detached single-family houses
Publication: Research › Ph.D. thesis – Annual report year: 2017

Methods of improving the performances of the low-temperature district heating system
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Modeling of solar collector fields for solar heating plants in district heating systems
Publication: Research › Ph.D. thesis – Annual report year: 2017
Modelling of a thermally activated building system (TABS) combined with free-hanging acoustic ceiling units using computational fluid dynamics (CFD)
Publication: Research - peer-review › Journal article – Annual report year: 2017

Numerical analysis of the potential of using light radiant ceilings in combination with diffuse ventilation to achieve thermal comfort in NZEB buildings
Krusaa, M. R., Hvid, C. A. & Kolarik, J. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

Performance of a Solar Heating System with Photovoltaic Thermal Hybrid Collectors and Heat Pump
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Porosity and density measurements of sodium acetate trihydrate for thermal energy storage
Publication: Research - peer-review › Journal article – Annual report year: 2017

Potentiele energibesparelser i CTS-systemer i kontorbygninger
Publication: Communication › Journal article – Annual report year: 2017

Practicing Facade Renovation of Danish Buildings Built between 1960 and 1980, Living and Sustainability
Hannoudi, L. A., Lauring, M. & Christensen, J. E. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

Proposing a Central AEC Ontology That Allows for Domain Specific Extensions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Recent changes in the Building Topology Ontology
Rasmussen, M. H., Pauwels, P., Lefrancois, M., Schneider, G. F., Hvid, C. A. & Karlshøj, J. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

Residential fire solutions in the building sector
Shaukat, F. S. & Markert, F. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Residential fire solutions in the building sector
Markert, F., Shaukat, F. S. & Hastrup, A. C. S. 2017
Publication: Communication › Sound/Visual production (digital) – Annual report year: 2017

SciCloud: A Scientific Cloud and Management Platform for Smart City Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Solaffugter
Andersen, E. & Furbo, S. 2017 DTU Byg, Danmarks Tekniske Universitet. 14 p. (DTU Byg Rapport; No. 368 (DK)).
Publication: Research › Report – Annual report year: 2017
Solar district heating and cooling: A review
Publication: Research - peer-review › Journal article – Annual report year: 2017

Status and prospect of solar heat for industrial processes in China
Publication: Research - peer-review › Journal article – Annual report year: 2017

The cost efficiency of improved roof windows in two well-lit nearly zero-energy houses in Copenhagen
Publication: Research - peer-review › Journal article – Annual report year: 2017

The effect of dynamic solar shading on energy, daylighting and thermal comfort in a nearly zero-energy loft room in Rome and Copenhagen
Publication: Research - peer-review › Journal article – Annual report year: 2017

Thermal stratification built up in hot water tank with different inlet stratifiers
Publication: Research - peer-review › Journal article – Annual report year: 2017

Using a One-Stop-Shop Concept to Guide Decisions when Single-Family Houses are renovated
Grøn Bjørneboe, M., Svendsen, S. & Heller, A. 2017 In : Journal of Architectural Engineering. 23, 2
Publication: Research - peer-review › Journal article – Annual report year: 2017

Visual Comfort Evaluation in Residential Buildings: a Simulation-Based Study
Publication: Research - peer-review › Paper – Annual report year: 2017

Web-based topology queries on a BIM model
Rasmussen, M. H., Hvid, C. A. & Karlshøj, J. 2017
Publication: Research - peer-review › Paper – Annual report year: 2017

An International Project on Indoor Air Quality Design and Control in Low Energy Residential Buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

An Methodology for Quality Control and Draught Assessment of Room Ventilation Supply Using Laser Light Sheets
Hvid, C. A. & Petersen, S. 2016 CLIMA 2016 - proceedings of the 12th REHVA World Congress. 10 p.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

A numerical model for pressure drop and flow distribution in a solar collector with U-connected absorber pipes
Publication: Research - peer-review › Journal article – Annual report year: 2016

Applications of Polysun at DTU Denmark
Andersen, E. 2016
Publication: Research - peer-review › Paper – Annual report year: 2017

Architectural qualities of Danish office buildings built between 1960 and 1980, seen in a contemporary sustainable perspective
Between green growth and degrowth: Decoupling, rebound effects and the politics for long-term sustainability
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Case study of low-temperature heating in an existing single-family house-A test of methods for simulation of heating system temperatures
Publication: Research - peer-review › Journal article – Annual report year: 2016

Challenging the assumptions for thermal sensation scales
Publication: Research - peer-review › Journal article – Annual report year: 2016

CITIESData: Towards Cloud Based Big Data Management for Smart Cities
Publication: Research › Poster – Annual report year: 2016

Consequence Based Design. An approach for integrating computational collaborative models (Integrated Dynamic Models) in the building design phase
Negendahl, K., Nielsen, T. R. & Schrøder, O. 2016 Technical University of Denmark, Department of Civil Engineering. 222 p.
Publication: Research › Ph.D. thesis – Annual report year: 2016

Control of Single-room Ventilation with Regenerative Heat Recovery for Indoor Climate and Energy Performance
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Decentralized substations for low-temperature district heating with no Legionella risk, and low return temperatures
Yang, X., Li, H. & Svendsen, S. 2016 In : Energy. 110, p. 65-74
Publication: Research - peer-review › Journal article – Annual report year: 2016

Demand side management for smart district heating
Publication: Research - peer-review › Conference article – Annual report year: 2016

Development of a Performance Calculation Program for Solar Domestic Hot Water Systems with Improved Prediction of Thermal Stratification
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Do new and renovated schools and kindergartens secure sufficiently high indoor environmental quality?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Drainback solar thermal systems: A review
Publication: Research - peer-review › Journal article – Annual report year: 2016
Effect of building renovation on energy use and indoor environment: Comparison of simulations and measurements in six apartment buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Energy, economy and exergy evaluations of the solutions for supplying domestic hot water from low-temperature district heating in Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2016

Energy-efficient Building in Greenland: Investigation of the Energy Consumption and Indoor Climate
Publication: Research - peer-review › Conference article – Annual report year: 2016

Evaluations of different domestic hot water preparing methods with ultra-low-temperature district heating
Publication: Research - peer-review › Journal article – Annual report year: 2016

Experimental investigations on cylindrical latent heat storage units with sodium acetate trihydrate composites utilizing supercooling
Publication: Research - peer-review › Journal article – Annual report year: 2016

Experimental investigations on heat content of supercooled sodium acetate trihydrate by a simple heat loss method
Publication: Research - peer-review › Journal article – Annual report year: 2016

Experimental investigations on prototype heat storage units utilizing stable supercooling of sodium acetate trihydrate mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2016

Experimental study of the heat transfers and passive cooling potential of a ventilated plenum designed for uniform air distribution
Hviid, C. A. & Lessing, J. 2016 CLIMA 2016 - proceedings of the 12th REHVA World Congress. 10 p.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Experimental investigation on the air flow and passive cooling potential of a ventilated plenum designed for uniform air distribution
Hviid, C. A. & Lessing, J. 2016 CLIMA 2016 - proceedings of the 12th REHVA World Congress. 10 p.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Field Study of Diffuse Ceiling Ventilation Performance in a Landscape Office
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Identification of parameters affecting the variability of energy use in residential buildings
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Identification of Parameters Affecting the Variability of Energy Use in Residential Buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

IEA Project on Indoor Air Quality Design and Control in Low Energy Residential Buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Publication: Research - peer-review › Conference article – Annual report year: 2016

IEA SHC Task 42/ECES Annex 29 WG A1: Engineering and Processing of PCMs, TCMs and Sorption Materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Impact of Prosumer Buildings and their Clusters on the Energy System – project outline
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Internal insulation applied in heritage multi-storey buildings with wooden beams embedded in solid masonry brick facades
Publication: Research - peer-review › Journal article – Annual report year: 2016

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

Laboratory Testing of Solar Combi System with Compact Long Term PCM Heat Storage
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Laboratory Test of a Cylindrical Heat Storage Module with Water and Sodium Acetate Trihydrate
Publication: Research - peer-review › Conference article – Annual report year: 2016

Living Labs – From scientific labs to the smart city
Heller, A. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Low Temperature Heating and High Temperature Cooling in Buildings
Publication: Research › Ph.D. thesis – Annual report year: 2016

Mapping one year’s design processes at an architecture firm specialized in sustainable architecture- How do sustainability certification systems affect design processes?
Mapping one year's design processes at an architecture firm specialized in sustainable architecture - How do sustainability certification systems affect design processes?
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Method for reducing excess heat supply experienced in typical Chinese district heating systems by achieving hydraulic balance and improving indoor air temperature control at the building level
Publication: Research - peer-review › Journal article – Annual report year: 2016

Method to investigate and plan the application of low temperature district heating to existing hydraulic radiator systems in existing buildings
Publication: Research - peer-review › Journal article – Annual report year: 2016

Modeling energy flexibility of low energy buildings utilizing thermal mass
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Modelling and multi-scenario analysis for electric heat tracing system combined with low temperature district heating for domestic hot water supply
Publication: Research - peer-review › Journal article – Annual report year: 2016

Multi-angled Façade System for Office Building Renovation
Publication: Research - peer-review › Paper – Annual report year: 2016

New Concept for Museum Storage Buildings – Evaluation of Building Performance Model for Simulation of Storage
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Online Anomaly Energy Consumption Detection Using Lambda Architecture
Publication: Research - peer-review › Journal article – Annual report year: 2016

Performance Analysis of a New Thermal Stratification Device for Hot Water Storage Tank Heated at the Bottom
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Replacing critical radiators to increase the potential to use low-temperature district heating – A case study of 4 Danish single-family houses from the 1930s
Publication: Research - peer-review › Journal article – Annual report year: 2016

Results of IEA SHC Task 45: Large Scale Solar Heating and Cooling Systems. Subtask A: "Collectors and Collector Loop"
Publication: Research - peer-review › Journal article – Annual report year: 2016
Roadmap for improving roof and façade windows in nearly zero-energy houses in Europe
Publication: Research - peer-review › Journal article – Annual report year: 2016

Sensory ratings of emissions from nontraditional building materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Simulation and optimization study on a solar space heating system combined with a low temperature ASHP for single family rural residential houses in Beijing
Publication: Research - peer-review › Journal article – Annual report year: 2016

Solidification behavior and thermal conductivity of bulk sodium acetate trihydrate composites with thickening agents and graphite
Publication: Research - peer-review › Journal article – Annual report year: 2016

Space heating with ultra-low-temperature district heating - A case study of four single-family houses from the 1980s
Østergaard, D. S. & Svendsen, S. 2016
Publication: Research - peer-review › Paper – Annual report year: 2016

Supply of domestic hot Water at comfortable temperatures by low-temperature district heating without risk of Legionella
Yang, X., Svendsen, S. & Li, H. 2016 Technical University of Denmark, Department of Civil Engineering. 139 p. (DTU Civil Engineering Report; No. R-346).
Publication: Research › Ph.D. thesis – Annual report year: 2016

Tårs 10000 m2 CSP + Flat Plate Solar Collector Plant - Cost-Performance Optimization of the Design
Publication: Research - peer-review › Journal article – Annual report year: 2016

Technical, economic and environmental investigation of using district heating to prepare domestic hot water in Chinese multi-storey buildings
Publication: Research - peer-review › Journal article – Annual report year: 2016

Technical-Environmental-Economical Evaluation of the Implementation of a Highly Efficient District Heating System in China
Publication: Research › Ph.D. thesis – Annual report year: 2016

Testing of PCM Heat Storage Modules with Solar Collectors as Heat Source
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The effect of a rotary heat exchanger in room-based ventilation on indoor humidity in existing apartments in temperate climates
Publication: Research - peer-review › Journal article – Annual report year: 2016
The effects of bedroom air quality on sleep and next-day performance
Publication: Research - peer-review › Journal article – Annual report year: 2015

Theoretical overview of heating power and necessary heating supply temperatures in typical Danish single-family houses from the 1900s
Publication: Research - peer-review › Journal article – Annual report year: 2016

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)).
Publication: Research › Report – Annual report year: 2016

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

Validation of a simple dynamic thermal performance characterization model based on the piston flow concept for flat-plate solar collectors
Publication: Research - peer-review › Journal article – Annual report year: 2016

Agent-Based Decision Control—How to Appreciate Multivariate Optimisation in Architecture
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Aggregation of building energy demands for city-scale models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Alternative solutions for inhibiting Legionella in domestic hot water systems based on low-temperature district heating
Publication: Research - peer-review › Journal article – Annual report year: 2016

Agent-Based Decision Control—How to Appreciate Multivariate Optimisation in Architecture
Publication: Research - peer-review › Book chapter – Annual report year: 2016

A new Laplace transformation method for dynamic testing of solar collectors
Publication: Research - peer-review › Journal article – Annual report year: 2015

Behavior of a solar collector loop during stagnation
Publication: Research - peer-review › Journal article – Annual report year: 2014
Big Data som værktøj til at styre byens energi
Heller, A. 2015
Publication: Research › Sound/Visual production (digital) – Annual report year: 2015

Building automation - providing data for business opportunities: Building technologies impact the bigger picture
Heller, A. 2015 Smart Buildings : Combining energy efficiency, flexibility and comfort . State of Green, p. 6-7
Publication: Communication › Report chapter – Annual report year: 2015

Building energy demand aggregation and simulation tools: a Danish case study
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Building energy optimization in the early design stages: A simplified method
Publication: Research - peer-review › Journal article – Annual report year: 2015

Building performance simulation in the early design stage: An introduction to integrated dynamic models
Publication: Research - peer-review › Journal article – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Bygninger – en aktiv del af fremtidens energiforsyning
Heller, A. 2015
Publication: Research › Sound/Visual production (digital) – Annual report year: 2015

Calculated thermal performance of solar collectors based on measured weather data from 2001-2010
Publication: Research - peer-review › Conference article – Annual report year: 2015

Centre for IT-Intelligent Energy Systems for Cities
Heller, A. 2015
Publication: Research › Sound/Visual production (digital) – Annual report year: 2015

Compact seasonal PCM heat storage for solar heating systems
Publication: Research › Ph.D. thesis – Annual report year: 2016

Determining the Optimal Capacities of Renewable-Energy-Based Energy Conversion Systems for Meeting the Demands of Low-Energy District Heating, Electricity, and District Cooling
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Development and Operation of Decentralized Ventilation for Indoor Climate and Energy Performance
Smith, K. M. & Svendsen, S. 2015 Technical University of Denmark, Department of Civil Engineering. 183 p.
Publication: Research › Ph.D. thesis – Annual report year: 2016
Development of a hot water tank simulation program with improved prediction of thermal stratification in the tank
Publication: Research - peer-review › Conference article – Annual report year: 2015

Dilemmas and Solutions for a Sustainable Green Transition
Publication: Research - peer-review › Journal article – Annual report year: 2014

District Heating in Areas with Low Energy Houses: Detailed Analysis of District Heating Systems based on Low Temperature Operation and Use of Renewable Energy
Tol, H. I., Svendsen, S. & Nielsen, S. B. 2015 Technical University of Denmark, Department of Civil Engineering. 204 p. (DTU Civil Engineering Report; No. R-283 (UK)).
Publication: Research › Ph.D. thesis – Annual report year: 2015

Drain Back Systems in Laboratory and in Practice
Publication: Research - peer-review › Conference article – Annual report year: 2015

Dynamic behavior of radiant cooling system based on capillary tubes in walls made of high performance concrete
Publication: Research - peer-review › Journal article – Annual report year: 2015

Effects of boosting the supply temperature on pipe dimensions of low-energy district heating networks: A case study in Gladsaxe, Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2015

Energy-efficient Building in Greenland: Investigation of the Energy Consumption and Indoor Climate
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Energy Efficient District Heating
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Energy Lab Nordhavn: Sustainability defined by certification
Ledgaard, K., Ingemann Mogensen, J. & Heller, A. 2015
Publication: Research › Sound/Visual production (digital) – Annual report year: 2015

Feasibility Study on Solar District Heating in China
Huang, J., Fan, J. & Furbo, S. 2015
Publication: Research - peer-review › Paper – Annual report year: 2015

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

Fri grundforskning skaber tekniske revolutioner
Publication: Communication › Comment/debate – Annual report year: 2015
Full scale measurements and CFD simulations of diffuse ceiling inlet for ventilation and cooling of densely occupied rooms
Publication: Research - peer-review › Journal article – Annual report year: 2015

Full-scale test of an old heritage multi-storey building undergoing energy retrofitting with focus on internal insulation and moisture
Publication: Research - peer-review › Journal article – Annual report year: 2015

Impact of façade window design on energy, daylighting and thermal comfort in nearly zero-energy houses
Publication: Research - peer-review › Journal article – Annual report year: 2015

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
Publication: Research - peer-review › Conference article – Annual report year: 2015

Influence of measurement uncertainty on classification of thermal environment in buildings according to European Standard EN 15251
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Laboratory test of a prototype heat storage module based on stable supercooling of sodium acetate trihydrate
Publication: Research - peer-review › Conference article – Annual report year: 2015

Load management in district heating operation
Li, H. & Wang, S. J. 2015 In : Energy Procedia. 75, p. 1202-1207
Publication: Research - peer-review › Conference article – Annual report year: 2015

Long term testing and evaluation of PV modules with and without Sunarc antireflective coating of the cover glass
Publication: Research - peer-review › Conference article – Annual report year: 2015

Mathematical modelling of unglazed solar collectors under extreme operating conditions
Publication: Research - peer-review › Journal article – Annual report year: 2015

Measurements of the angular distribution of diffuse irradiance
Publication: Research - peer-review › Conference article – Annual report year: 2015

Models for flexible operation of buildings in district energy system Nordhavn
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Operative temperature drifts and occupant satisfaction with thermal environment in three office buildings using radiant heating/cooling system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
4th Generation District Heating (4GDH): Integrating smart thermal grids into future sustainable energy systems
Publication: Research - peer-review › Journal article – Annual report year: 2014

Analysis and research on promising solutions of low temperature district heating without risk of legionella
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

A new district heating system in the city of Bolzano: developing smart solutions within ”Sinfonia” project
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Approaching Sentient Building Performance Simulation Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

A simple tool to evaluate the effect of the urban canyon on daylight level and energy demand in the early stages of building design
Publication: Research - peer-review › Journal article – Annual report year: 2014

Barriers and Potential Solutions for Energy Renovation of Buildings in Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2014

Barriers and Solutions for a Green Transition
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Building for the future smart energy cities
Publication: Research › Report chapter – Annual report year: 2014

Central Solar (District) Heating Plants
Heller, A. & Sørensen, P. A. 2014
Publication: Research - peer-review › Poster – Annual report year: 2015

Challenges in Smart Low-Temperature District Heating Development
Li, H. & Wang, S. J. 2014 In : Energy Procedia. 61, p. 1472-1475
Publication: Research - peer-review › Conference article – Annual report year: 2015

Change in design targets for building energy towards smart cities
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

China’s Anshan project: a good example to implementing Scandinavian DH technology and environmentally friendly heat source to upgrade the DH system
Modern insulation requirements change the rules of architectural design in low-energy homes
Publication: Research - peer-review › Journal article – Annual report year: 2014

Numerical investigation of diffuse ceiling ventilation in an office under different operating conditions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Optimization of China’s centralized domestic hot water system by applying Danish elements
Publication: Research - peer-review › Conference article – Annual report year: 2015

Optimized damper control of pressure and airflow in ventilation systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Parametric City Scale Energy Modeling Perspectives on using Termite in city scaled models
Publication: Research - peer-review › Poster – Annual report year: 2015

Parametric design and analysis framework with integrated dynamic models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Seasonal differences in human responses to increasing temperatures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Simulation of static pressure reset control in comfort ventilation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

SolNet: PhD-scholarships and courses on solar heating
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Survey of Indoor Air Quality in the University of Alaska
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Technical comparison of domestic hot water system which used in China and Denmark
Publication: Research - peer-review › Conference article – Annual report year: 2015

Test of Thermobattery heat storage module
Publication: Research - peer-review › Report – Annual report year: 2014
The delusion of decoupling, and policy options for mitigating the rebound effect and the environmental impact
Nørgaard, J. 2014
Publication: Research - peer-review › Paper – Annual report year: 2015

The effect of CO₂ controlled bedroom ventilation on sleep and next-day performance
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Thermal performance of solar district heating plants in Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Toward 4th generation district heating: experience and potential of low-temperature district heating
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Trængsel i Paradisets Have
Nørgaard, J. 2014 In : Grøn Hverdag. 1, p. 6-9
Publication: Communication › Journal article – Annual report year: 2015

Upgrade and extension of the climate station at DTU Byg
Andersen, E., Dragsted, J., Kristensen, T. V. & Andersen, L. K. 2014 Technical University of Denmark, Department of Civil Engineering. 16 p.
Publication: Research › Report – Annual report year: 2014

Validation of a CFD model simulating charge and discharge of a small heat storage test module based on a sodium acetate water mixture
Publication: Research - peer-review › Conference article – Annual report year: 2014

Waste-based materials; capability, application and impact on indoor environment – literature review
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Wireless technologies for the Construction Sector: Requirements, Energy and Cost Efficiencies
Heller, A. & Orthmann, C. 2014 In : Energy and Buildings. 73, p. 212-216
Publication: Research - peer-review › Journal article – Annual report year: 2014

ZeroWaste BYG: Hydro-thermal conditions and pollutant emissions from ZeroWaste materials and their effects on humans
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

ZeroWaste BYG: Redesigning construction materials towards zero waste society
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

An arctic low-energy house as experimental setup for studies of heat dynamics of buildings
Andersen, P. H. D., Rode, C. & Madsen, H. 2013 In : Frontiers of Architectural Research. 2, 4, p. 488-499
Publication: Research - peer-review › Journal article – Annual report year: 2013
A non-parametric method for correction of global radiation observations
Publication: Research - peer-review › Journal article – Annual report year: 2013

Bevar vores bygninger
Røde, C. & Odgaard, G. 2013 Politiken
Publication: Communication › Comment/debate – Annual report year: 2013

Boundary conditions for the use of personal ventilation over mixing ventilation in open plan offices
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Building typologies in northern European cities: daylight, solar access, and building energy use
Sattrup, P. A. & Strommann-Andersen, J. 2013 In : Journal of Architectural and Planning Research. 30, 1, p. 56-76
Publication: Research - peer-review › Journal article – Annual report year: 2013

Business models for full service energy renovation of single-family houses in Nordic countries
Publication: Research - peer-review › Journal article – Annual report year: 2013

Change in heat load profile for typical Danish multi-storey buildings when energy-renovated and supplied with low-temperature district heating
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Changes in heat load profile of typical Danish multi-storey buildings when energy-renovated and supplied with low-temperature district heating
Publication: Research - peer-review › Journal article – Annual report year: 2013

Climate classification for the simulation of thermally activated building systems (TABS)
Behrendt, B. & Christensen, J. E. 2013 Proceedings of BS2013. IBPSA, p. 3614-3621
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Combination of energy savings in buildings and renewable energy supply solutions
Svendsen, S. & Harrestrup, M. 2013
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Comparison of district heating systems used in China and Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2013

Comparison of simplified and advanced building simulation tool with measured data.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Danish Pioneering of Modern Wind Power
Publication: Research - peer-review › Book chapter – Annual report year: 2013
Danish Pioneering of Modern Wind Power
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Detailed simulations of lighting conditions in office rooms lit by daylight and artificial light
Publication: Research › Ph.D. thesis – Annual report year: 2013

Development of a method for holistic energy renovation
Publication: Research › Ph.D. thesis – Annual report year: 2013

Development of mechanical ventilation system with low energy consumption for renovation of buildings
Publication: Research › Ph.D. thesis – Annual report year: 2013

District Heating Network Design and Configuration Optimization with Genetic Algorithm
Publication: Research - peer-review › Journal article – Annual report year: 2013

Evaluation of Sub-Zonal Airflow Models for the Prediction of Local Interior Boundary Conditions: Natural and Forced Convection Cases
Publication: Research - peer-review › Journal article – Annual report year: 2013

Experimental study of perforated suspended ceilings as diffuse ventilation air inlets
Publication: Research - peer-review › Journal article – Annual report year: 2013

Global building physics
Rode, C. 2013 In : Journal of Building Physics. 36, 4, p. 337-352
Publication: Research - peer-review › Journal article – Annual report year: 2013

Grænser for vækst
Meyer, N. I. 2013 In : Vedvarende energi og miljø. 4, p. 16-17
Publication: Research › Journal article – Annual report year: 2013

Happy degrowth through more amateur economy
Nørgaard, J. 2013 In : Journal of Cleaner Production. 38, p. 61-70
Publication: Research - peer-review › Journal article – Annual report year: 2011

Holistic Energy Renovation of Pre- and Postwar Apartment Blocks in Denmark
Eriksen, M. S. H., Rode, C. & Bjarløv, S. P. 2013
Publication: Research › Paper – Annual report year: 2013

Human response to local convective and radiant cooling in a warm environment.
Publication: Research - peer-review › Journal article – Annual report year: 2013
Hygrothermal optimisation of museum storage spaces
Publication: Research - peer-review › Journal article – Annual report year: 2013

Incinerated sewage sludge ash as alternative binder in cement-based materials: effect on mortar characteristics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Individual solar and smart energy systems
Furbo, S. 2013
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Interactive Teaching in Interpersonal Skills
Christensen, J. E., Karhu, M. & Christensen, C. 2013 In : Journal of Civil Engineering and Architecture. 7, 2, p. 206-219
Publication: Research - peer-review › Journal article – Annual report year: 2013

Investigation and description of European buildings that may be representative for "nearly-zero" energy single family houses in 2020
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Investigation of interior post-insulated masonry walls with wooden beam ends
Publication: Research - peer-review › Journal article – Annual report year: 2012

Investigations on efficiencies of HT solar collectors for different flow rates and collector tilts
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Low-energy house in Sisimiut - Data overview
Publication: Research › Report – Annual report year: 2013

Low-energy house in Sisimiut - Measurement equipment
Publication: Research › Report – Annual report year: 2013

Method for design of low-energy type houses based on simulations of indoor environment and energy use
Publication: Research › Ph.D. thesis – Annual report year: 2014

Method for Developing and Assessing Holistic Energy Renovation of Multi-Storey Buildings
Eriksen, M. S. H., Rode, C. & Bjarløv, S. P. 2013
Publication: Research - peer-review › Paper – Annual report year: 2013

Modeling Transient Heat Transfer in Small-Size Twin Pipes for End-User Connections to Low-Energy District Heating Networks
Publication: Research - peer-review › Journal article – Annual report year: 2013
Models for the energy performance of low-energy houses
Publication: Research › Ph.D. thesis – Annual report year: 2013

Non-isothermal Laboratory Measurements of Moisture Profiles in Calcium Silicate for Interior Insulation Applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Performance analysis of a new design of office diffuse ceiling ventilation system
Fan, J., Hviid, C. A. & Yang, H. 2013 In : Energy and Buildings. 59, p. 73-81
Publication: Research - peer-review › Journal article – Annual report year: 2013

Performance of a daylight-redirecting glass-shading system
Publication: Research - peer-review › Journal article – Annual report year: 2013

Performance potential of mechanical ventilation systems with minimized pressure loss
Publication: Research - peer-review › Journal article – Annual report year: 2013

Regional Energy Planning Tool for Renewable Integrated Low-Energy District Heating Systems: Environmental Assessment
Tol, H., Dincer, I. & Svendsen, S. 2013 Causes, Impacts and Solutions to Global Warming. Springer, Ch. 45, p. 859-878
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Renewable-based low-temperature district heating for existing buildings in various stages of refurbishment
Publication: Research - peer-review › Journal article – Annual report year: 2013

Review of Various Solutions for avoiding critical levels of Legionella Bacteria in Domestic Hot Water System
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Short-term heat load forecasting for single family houses
Publication: Research - peer-review › Journal article – Annual report year: 2013

Simulation of annual electric lighting demand using various occupancy profiles
Publication: Research - peer-review › Journal article – Annual report year: 2012

Solar/electric heating systems for the future energy system
Publication: Research - peer-review › Report – Annual report year: 2013

Study of thermal performance of capillary micro tubes integrated into the building sandwich element made of high performance concrete
Publication: Research - peer-review › Journal article – Annual report year: 2013
The effect of different weather data sets and their resolution on climate-based daylight modelling
Publication: Research - peer-review › Journal article – Annual report year: 2013

The Exergetic, Environmental and Economic Effect of the Hydrostatic Design Static Pressure Level on the Pipe Dimensions of Low-Energy District Heating Networks
Tol, H. I. & Svendsen, S. 2013 In : Challenges. 4, 1, p. 1
Publication: Research - peer-review › Journal article – Annual report year: 2013

The potential to supply low temperature district heating to existing building area
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Thermal performance of capillary micro tubes integrated into the sandwich element made of concrete
Publication: Research - peer-review › Journal article – Annual report year: 2013

Thermal storage
Publication: Research - peer-review › Report chapter – Annual report year: 2013

Walking away from a low-carbon economy?: Recent and historical trends using a regional decomposition analysis
Mundaca T., L., Markandya, A. & Nørgaard, J. 2013 In : Energy Policy. 61, p. 1471-1480
Publication: Research - peer-review › Journal article – Annual report year: 2013

A Comparative Study on Substation Types and Network Layouts in Connection with Low-Energy District Heating Systems
Tol, H. & Svendsen, S. 2012 In : Energy Conversion and Management. 64, p. 551-561
Publication: Research - peer-review › Journal article – Annual report year: 2012

Afspejler et Be10-beregnet energibehov det faktiske energiforbrug
Publication: Communication › Journal article – Annual report year: 2012

A method for economic optimization of energy performance and indoor environment in the design of sustainable buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

An hourly based performance comparison of an integrated micro-structural perforated shading screen with standard shading systems
Publication: Research - peer-review › Journal article – Annual report year: 2012

An improved dynamic test method for solar collectors
Publication: Research - peer-review › Journal article – Annual report year: 2012

A simplified heat pump model for use in solar plus heat pump system simulation studies
Publication: Research - peer-review › Conference article – Annual report year: 2012

A static pressure reset control system with a new type of flow damper for use in low pressure ventilation systems
A tool for standardized collector performance calculations including PVT

Blower door tests of a group of identical flats in a new student accommodation in the Arctic
Kotol, M., Rode, C. & Vahala, J. 2012

Buoyancy driven flow in a hot water tank due to standby heat loss

Tol, H., Nielsen, S. B. & Svendsen, S. 2012

Case Study of a Low-Energy District Heating Network in Energy-Efficient Settlements in Denmark
Dalla Rosa, A. & Christensen, J. E. 2012

Center for Bygningssimulering: Idegrundlag for etablering af center

Characterization of fracture patterns and hygric properties for moisture flow modelling in cracked concrete

Collaboration opportunities in advanced housing renovation

Designguide til etablering af ventilation i eksisterende skoler
Hviid, C. A. & Petersen, S. 2012 In : H V A C Magasinet. 48, 11, p. 44-46

Design of energy-efficient buildings using interaction between Building Simulation Programme and Energy Supply Simulations for District Heating
Christensen, J. E., Dalla Rosa, A. & Nagla, I. 2012

Det intelligente energisystem
Development of seasonal heat storage based on stable supercooling of a sodium acetate water mixture
Publication: Research - peer-review › Conference article – Annual report year: 2012

District heating (DH) network design and operation toward a system-wide methodology for optimizing renewable energy solutions (SMORES) in Canada: A case study
Publication: Research - peer-review › Journal article – Annual report year: 2012

Economical analysis of a solar desalination system
Publication: Research - peer-review › Journal article – Annual report year: 2012

Economical optimization of building elements for use in design of nearly zero energy buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Effect of Design Static Pressure Level on Energy Efficiency at Low Energy District Heating Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Efficiencies of flat plate solar collectors at different flow rates
Publication: Research - peer-review › Conference article – Annual report year: 2012

Energieffektiviseringer i bygninger
Svendsen, S. 2012
Publication: Communication › Sound/Visual production (digital) – Annual report year: 2012

Energivejledninger: Mapning af danske og svenske vejledninger målrettet energiprojektering
Publication: Research › Report – Annual report year: 2012

Energy and exergy analysis of low temperature district heating network
Publication: Research - peer-review › Journal article – Annual report year: 2012

Energy-efficient and cost-effective use of district heating bypass for improving the thermal comfort in bathrooms in low-energy buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Energy performance and Indoor Air Quality in Modern Buildings in Greenland: Case study Apisseq
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Energy retrofitting of a typical old Danish multi-family building to a "nearly-zero" energy building based on experiences from a test apartment
Publication: Research - peer-review › Journal article – Annual report year: 2012
Evacuation of children - movement on stairs and on Horizontal Plane
Larusdottir, A. R. & Dederichs, A. 2012 In : Fire Technology. 48, 1, p. 43-53
Publication: Research - peer-review › Journal article – Annual report year: 2010

Evaluation of long-term global radiation measurements in Denmark and Sweden
Publication: Research - peer-review › Paper – Annual report year: 2012

Experimental study of diffuse ceiling ventilation in classroom
Hviid, C. A. & Terkildsen, S. 2012
Publication: Research - peer-review › Paper – Annual report year: 2012

Experimental Validation and Model Verification for a Novel Geometry ICPC Solar Collector
Publication: Research - peer-review › Paper – Annual report year: 2012

Exposure of health care workers and occupants to coughed airborne pathogens in a double-bed hospital patient room with overhead mixing ventilation
Publication: Research - peer-review › Journal article – Annual report year: 2012

Global Building Physics
Rode, C. 2012 8 p.
Publication: Education › Compendium/lecture notes – Annual report year: 2012

Heat storage based on a NaCH3COO water mixture for solar heating systems
Furbo, S. & Fan, J. 2012 Technical University of Denmark, Department of Civil Engineering. 68 p. (DTU Civil Engineering Reports; No. SR-12-10).
Publication: Research - peer-review › Report – Annual report year: 2012

Hvordan skal Facilities Management reagere på klimaforandringsene påvirknings på bygninger?
Cox, R. A. 2012 In : FM Update. p. 12-14
Publication: Communication › Journal article – Annual report year: 2012

Impact of geometry of a sedentary occupant simulator on the generated thermal plume: Experimental investigation
Publication: Research - peer-review › Journal article – Annual report year: 2012

Implementation of ventilation in existing schools: a design criteria list towards passive schools
Hviid, C. A. & Petersen, S. 2012
Publication: Research - peer-review › Paper – Annual report year: 2012

Integration of Building energy and energy supply simulations for low-energy district heating supply to energy-efficient buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Investigation of Architectural Strategies in Relation to Daylight and Integrated Design: A Case Study of Three Libraries in Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2012

Investigation of Thermal Performance of Flat Plate and Evacuated Tubular Solar Collectors According to a New Dynamic Test Method
Lavenergihuset tæt på målet!
Publication: Research › Conference article – Annual report year: 2012

Load Forecasting for Households
Publication: Research › Book chapter – Annual report year: 2012

Measurement and modelling of a multifunctional solar plus heatpump system from Nilan.: Experiences from one year of test operation.
Perers, B., Andersen, E., Furbo, S., Chen, Z. & Tsouvalas, A. 2012
Publication: Research › Report – Annual report year: 2012

Method for component-based economical optimisation for use in design of new low-energy buildings
Publication: Research › Journal article – Annual report year: 2011

Model predictive control for a smart solar tank based on weather and consumption forecasts
Publication: Research › Conference article – Annual report year: 2012

Moisture conditions in buildings: how to avoid mould problems
Publication: Research › Conference article – Annual report year: 2012

New producers and new 11-, 19-, and 20-residue peptaibiotics: suzukacillins B and C
Publication: Research › Conference abstract in journal – Annual report year: 2012

Non-destructive observation of damage in mortar and concrete during mechanical loading for the evaluation of moisture transfer profiles
Publication: Research › Article in proceedings – Annual report year: 2012

Numerical modelling and experimental measurements for a low-temperature district heating substation for instantaneous preparation of DHW with respect to service pipes
Brand, M., Thorsen, J. E. & Svendsen, S. 2012 In : Energy. 41, 1, p. 392-400
Publication: Research › Article in proceedings – Annual report year: 2012

Operational Planning of Low-Energy District Heating Systems Connected to Existing Buildings
Publication: Research › Conference article – Annual report year: 2012

Optimal dimensioning of low-energy district heating networks with operational planning: case study for existing buildings
Tol, H. & Svendsen, S. 2012 Proceedings of the 11th International Conference on Sustainable Energy Technologies. p. 113-122
Publication: Research › Article in proceedings – Annual report year: 2012
Optimization of pellet–solar combisystems for buildings using a DoE approach  
Persson, H., Carlsson, B. & Perers, B. 2012  
Publication: Research - peer-review › Paper – Annual report year: 2012

Performance of solar collectors under low temperature conditions: Measurements and simulations results  
Publication: Research - peer-review › Paper – Annual report year: 2012

Personal Recollections of the Balaton Group History  
Publication: Communication › Journal article – Annual report year: 2012

Planning of the district heating system in Copenhagen from an economic perspective comparing energy-savings versus fossil-free supply  
Harrestrup, M. & Svendsen, S. 2012  
Publication: Research - peer-review › Paper – Annual report year: 2012

Residential and commercial buildings  
Publication: Research - peer-review › Report chapter – Annual report year: 2012

Solar radiation and thermal performance of solar collectors for Denmark  
Dragsted, J. & Furbo, S. 2012 Technical University of Denmark, Department of Civil Engineering. 30 p. (DTU Civil Engineering Reports; No. R-275).  
Publication: Research - peer-review › Report – Annual report year: 2012

Studies of Heat Dynamics in an Arctic Low-energy House  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Survey of occupant behaviour, energy use and indoor air quality in Greenlandic dwellings  
Kotol, M. 2012  
Publication: Research - peer-review › Paper – Annual report year: 2013

Sustainability Science to Real-World Action: A Short History of the Balaton Group  
Meyer, N. I. & AtKisson, A. 2012 In : Solutions. 3, 5, p. 75-81  
Publication: Research - peer-review › Journal article – Annual report year: 2012

The European Energy Performance of Buildings Directive: Comparison of calculated and actual energy use in a Danish office building  
Petersen, S. & Hviid, C. A. 2012  
Publication: Research - peer-review › Paper – Annual report year: 2012

The impact of climate change on buildings  
Publication: Communication › Report chapter – Annual report year: 2012

Theoretical study of solar combisystems based on bikini tanks and tank-in-tank stores  
Publication: Research - peer-review › Journal article – Annual report year: 2011

Thermal behavior of a heat exchanger module for seasonal heat storage  
Fan, J., Furbo, S., Andersen, E., Chen, Z., Perers, B. & Dannemand, M. 2012 In : Energy Procedia. 30, p. 244-254  
Publication: Research - peer-review › Conference article – Annual report year: 2012
Thermal performance of marketed SDHW systems under laboratory conditions
Furbo, S., Andersen, E., Fan, J., Chen, Z. & Perers, B. 2012
Publication: Research - peer-review › Paper – Annual report year: 2012

Thermal stratification in a hot water tank established by heat loss from the tank
Publication: Research - peer-review › Journal article – Annual report year: 2012

Towards a Future of District Heating Systems with Low-Temperature Operation together with Non-Fossil Fuel Heat Sources
Tol, H., Dinçer, I. & Svendsen, S. 2012
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Transition to 100% renewable energy systems in Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2012

Udvikling af intelligent styresystem til fremtidens solvarmeanlæg
Furbo, S. 2012 In : H V A C Magasinet. 48, 1, p. 22-28
Publication: Communication › Journal article – Annual report year: 2013

Water use in engineering dormitory in Greenland - Apisseq: Sisimiut - Greenland
Publication: Research › Report – Annual report year: 2012

Wind- and stack-assisted mechanical ventilation with heat recovery and night cooling
Hviid, C. A. & Svendsen, S. 2012 Technical University of Denmark, Department of Civil Engineering. 121 p.
Publication: Research - peer-review › Report – Annual report year: 2012

Solar heating in Greenland: Resource assessment and potential
Publication: Research › Ph.D. thesis – Annual report year: 2011

20 års miljødebatt: Det siger de tidligere formænd
Nørgaard, J. 2011 In : Global Økologi. 3, p. 24
Publication: Communication › Journal article – Annual report year: 2011

A design build activity for a "design build" course
Rode, C., Christensen, J. E. & Simonsen, C. 2011 Proceedings of the 7th International CDIO Conference.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Afrøvning af energisolfanger med luftsolfangerfunktion fra Venetian Solar ApS
Andersen, E. 2011 Kgs. Lyngby: DTU Byg, Danmarks Tekniske Universitet. (DTU Byg Sagsrapport; No. SR 11-10 (DK)).
Publication: Research › Report – Annual report year: 2011

A Low-energy Building under Arctic Conditions - Experiences After Five Years of Operation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

A methodological study of environmental simulation in architecture and engineering. Integrating daylight and thermal performance across the urban and building scales
Analytical and experimental analysis of a low-pressure heat exchanger suitable for passive ventilation

Analytical and experimental analysis of a low-pressure heat exchanger suitable for passive ventilation (vol 43, pg 275, 2011)
Hviid, C. A. & Svendsen, S. 2011 In : Energy and Buildings. 43, 6, p. 1508-1509

Analytical model of heat transfer in porous insulation around cold pipes

An energy efficient building for the Arctic climate: Is a passive house sensible solution for Greenland?

APISSEQ Sisimiut – Greenland: 1st winter survey 2011

A system for the comparison of tools for the simulation of water-based radiant heating and cooling systems

Bæredygtig energiudvikling
Meyer, N. I. 2011 In : Kvant. 3, p. 3-8

Buildings for smart cities

CDIO Projects in Civil Engineering Study Program at DTU

Coherent Energy and Environmental System Analysis

Control strategies for demand controlled ventilation in dwellings
Hvad koster et godt indeklima på folkeskoler?
Publication: Communication › Journal article – Annual report year: 2011

Hvor mange kan vi byde velkommen til Verden?
Nørgaard, J. 2011 Modvækst - Omstilling til fremtiden. Hovedland
Publication: Research - peer-review › Book chapter – Annual report year: 2011

Hysteresis and Temperature Dependency of Moisture Sorption – New Measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

IEA-ECBCS Annex 51: energy efficient communities. Experience from Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Illuminance Level in the Urban Fabric and in the Room
Publication: Research - peer-review › Journal article – Annual report year: 2011

Improved experimental setup for observation of non-linear heat dynamics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Improving the Dimensioning of Piping Networks and Network Layouts in Low-Energy District Heating Systems Connected to Low-Energy Buildings: A Case Study in Roskilde, Denmark
Tol, H. & Svendsen, S. 2011 In : Energy. 38, 1, p. 276-290
Publication: Research - peer-review › Journal article – Annual report year: 2011

Influence of the nature of interfaces on the capillary transport in layered materials
Publication: Research - peer-review › Journal article – Annual report year: 2011

In situ determination of the moisture buffer potential of room enclosures
Publication: Research - peer-review › Journal article – Annual report year: 2011

Integrated Design: A paradigm for the design of low-energy office buildings
Publication: Research - peer-review › Conference article – Annual report year: 2011

Integrated ventilation and night cooling in classrooms with diffuse ceiling ventilation
Publication: Research › Article in proceedings – Annual report year: 2011

Investigation of Retrofit Solutions of Window-Wall Assembly Based on FMEA, Energy Performance and Indoor Environment
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011
Low energy buildings – the basis for realizing the strategy for independency of fossil fuels in 2050
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Low-energy district heating in energy-efficient building areas
Dalla Rosa, A. & Christensen, J. E. 2011 In : Energy. 36, 12, p. 6890-6899
Publication: Research - peer-review › Journal article – Annual report year: 2011

Low-energy house in Arctic climate - 5 years of experience
Publication: Research - peer-review › Journal article – Annual report year: 2011

Method for optimal design of pipes for low-energy district heating, with focus on heat losses
Dalla Rosa, A., Li, H. & Svendsen, S. 2011 In : Energy. 36, 5, p. 2407-2418
Publication: Research › Journal article – Annual report year: 2011

Method for simulating predictive control of building systems operation in the early stages of building design
Publication: Research - peer-review › Journal article – Annual report year: 2011

Method for use of economical optimization in design of nearly zero energy buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Mindre arbejde giver gratis klimagevinst
Nørgaard, J. 2011 Modvækst - Omstilling til fremtiden. Hovedland, p. 77-92
Publication: Research - peer-review › Book chapter – Annual report year: 2011

Modelling, Measurements and Validation of a solar plus heat pump compact unit from Nilan
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Models of the heat dynamics of solar collectors for performance testing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

New Systems Thinking and Policy Means for Sustainable Energy Development
Meyer, N. I. 2011 In : Safety in the Technosphere. 2
Publication: Research - peer-review › Journal article – Annual report year: 2010

New tool for standardized collector performance calculations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Obstacles and New Opportunities for Integrated design
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Opensource Software for MLR-Modelling of Solar Collectors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011
Passive hygrothermal control of a museum storage building
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Performance of a daylight redirecting glass shading system demonstration in an office building
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Performance of low pressure mechanical ventilation concept with diffuse ceiling inlet for renovation of school classrooms
Terkildsen, S. & Svendsen, S. 2011 Publication: Research - peer-review › Paper – Annual report year: 2012

Policies for a transition to 100% renewable energy systems in Denmark before 2050
Publication: Research - peer-review › Report – Annual report year: 2011

Policy Means for Sustainable Energy Scenarios
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Possible financing schemes for one-stop-shop service for sustainable renovation of single-family houses
Publication: Research › Report – Annual report year: 2011

Prøvestand til luftsolfangere
Publication: Research › Report – Annual report year: 2011

Quantifying the potential of automated dynamic solar shading in office buildings through integrated simulations of energy and daylight
Publication: Research › Journal article – Annual report year: 2011

Report on stakeholder interests
Publication: Research › Report – Annual report year: 2011

Road map for 100% renewables: Danish Case Study
Meyer, N. I. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Short-Term Solar Collector Power Forecasting
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Simulation-based support for integrated design of new low-energy office buildings
Publication: Research › Ph.D. thesis – Annual report year: 2011
Simulation of BSDF’s generated with Window6 and TracePro – preliminary results
Iversen, A. & Nilsson, A. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Solar combisystems with forecast control to increase the solar fraction and lower the auxiliary energy cost
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Solvarmeanlægs energibesparelser
Publication: Research › Report – Annual report year: 2011

Stagnationstemperaturer for forskelligt udformede solfangere
Chen, Z. & Furbo, S. 2011 Kgs. Lyngby: DTU Byg, Danmarks Tekniske Universitet. 9 p. (DTU Byg Rapport; No. SR 11-08 (DK)).
Publication: Research › Report – Annual report year: 2011

Study on a tracking solar collector
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Sustainable renovation concepts for single-family houses
Publication: Research - peer-review › Report – Annual report year: 2011

System Design for Demand Controlled Ventilation in Multi-Family Dwellings
Publication: Research - peer-review › Journal article – Annual report year: 2011

Teaching interpersonal skills in an international design-build course
Christensen, J. E., Karhu, M. & Christensen, C. 2011 7th International CDIO Conference 2011. p. 65
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

The effect of different weather data sets and their resolution in climate-based daylight modeling for the location of Copenhagen
Iversen, A. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

The path towards a 100% renewable Denmark
Meyer, N. I. 2011
Publication: Research - peer-review › Paper – Annual report year: 2011

The potential and need for energy saving in standard family detached and semi-detached wooden houses in arctic Greenland
Bjarlev, S. P. & Vladyková, P. 2011 In : Building and Environment. 46, 8, p. 1525-1536
Publication: Research - peer-review › Journal article – Annual report year: 2011

The potential for energy efficient building design - differences between Europe and the Arctic
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011
Thermal diffusion of water vapour in porous materials: fact or fiction?
Janssen, H. 2011 In : International Journal of Heat and Mass Transfer. 54, 7-8, p. 1548-1562
Publication: Research - peer-review › Journal article – Annual report year: 2011

Thermal performance of small SDHW systems with differently designed mantle tanks
Furbo, S. & Andersen, E. 2011 Kgs. Lyngby: Technical University of Denmark, Department of Civil Engineering. (DTU Civil Engineering Reports; No. SR-11 06).
Publication: Research - peer-review › Report – Annual report year: 2011

Thermal stratification in hot water storage tanks with fabric stratification inlet pipes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

The urban canyon and building energy use: Urban density versus daylight and passive solar gains
Publication: Research - peer-review › Journal article – Annual report year: 2011

Transient thermal response of turbulent compressible boundary layers
Li, H., Nalim, M. R. & Merkle, C. L. 2011 In : Journal of Heat Transfer. 133, 8, 081701
Publication: Research - peer-review › Journal article – Annual report year: 2011

Transition to 100 % renewables
Meyer, N. I. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Validation of a dynamic model for unglazed collectors including condensation. Application for standardized testing and simulation in TRNSYS and IDA
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Validation of genBSDF
Publication: Research › Sound/Visual production (digital) – Annual report year: 2012

Web Platforms Integrating Supply and Demand for Energy Renovations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Wind energy pocket reference
Publication: Research - peer-review › Book – Annual report year: 2011

Ydelse af trackende solfanger
Publication: Research › Report – Annual report year: 2011

Nye typer bygningsintegrerede ventilationsløsninger med flere funktioner
Publication: Research › Ph.D. thesis – Annual report year: 2010
Modeling of the Hygrothermal Interactions between the Indoor Environment and the Building Envelope
Publication: Research › Ph.D. thesis – Annual report year: 2010

Adaptive Kronrod-Patterson integration of non-linear finite-element matrices
Publication: Research - peer-review › Journal article – Annual report year: 2010

A Direct Heat Exchanger Unit used for Domestic Hot Water Supply in a Single-family House Supplied by Low Energy District Heating
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Advanced Solar combisystems
Publication: Research › Ph.D. thesis – Annual report year: 2010

Air Tightness and Energy Performance of an Arctic Low-Energy House
Publication: Research › Article in proceedings – Annual report year: 2010

A method to determine stratification efficiency of thermal energy storage processes independently from storage heat losses
Publication: Research - peer-review › Journal article – Annual report year: 2010

An improved solar collector model including condensation and asymmetric incidence angle modifiers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Annual Report 2009
Publication: Communication › Report – Annual report year: 2009

A whole range hygric material model: Modelling liquid and vapour transport properties in porous media
Publication: Research - peer-review › Journal article – Annual report year: 2010

Befolkningsudviklingen (Population Development): -den glemte faktor i miljøpolitikken (- the forgotten factor in the environmental policy)
Nørgaard, J. 2010 In : Aktuel Naturvidenskab. 5, nov.
Publication: Communication › Journal article – Annual report year: 2010

CFD calculations and PIV measurements on tank-in-tank heat storage
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Communication Course for Students in the CDIO Programme
Design of a low temperature district heating network with supply recirculation
Li, H., Dalla Rosa, A. & Svendsen, S. 2010 12th International Symposium on District Heating and Cooling. p. 73-80
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

DETAILED MODELLING OF CHARGING BEHAVIOUR OF SMART SOLAR TANKS
Fan, J., Andersen, E., Furbo, S. & Perers, B. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010

DETAILED MODELLING OF CHARGING BEHAVIOUR OF SMART SOLAR TANKS
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Development of a slim window frame made of glass fibre reinforced polyester
Publication: Research - peer-review › Journal article – Annual report year: 2010

Does increased ventilation help reduce cross-infection in isolation hospital wards?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Economical analysis and study on a solar desalination unit
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

EFP-07 projektet: Lavenergihuse i DS 418 Beregning af bygningers varmetab: Faglig slutrapport
Publication: Research › Report – Annual report year: 2011

Embedded water-based surface heating part 2: experimental validation
Karlsson, H. 2010 In : Journal of Building Physics. 34, 2, p. 143-162
Publication: Research › Journal article – Annual report year: 2010

Energirenovering af murermesterhus
Publication: Research › Report – Annual report year: 2010

Energirenovering af typeskolebygning fra 1970-erne
Publication: Research › Report – Annual report year: 2010

Energirenoveringstiltag: Katalog
Publication: Research › Report – Annual report year: 2010

Energy efficient demand controlled ventilation in single family houses
Publication: Research › Journal article – Annual report year: 2010

Evacuation dynamics of children: Walking speeds, flows through doors in daycare centers
Evaluating of learning outcomes in CDIO programme within civil engineering
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Existing Sustainable Renovation Concepts
Publication: Research - peer-review › Report – Annual report year: 2009

Existing sustainable renovation concepts for single-family houses
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Exposure to coughed airborne pathogens in a double bed hospital patient room with overhead mixing ventilation: impact of posture of coughing patient and location of doctor
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Hygrothermal performance optimisation of a museum storage building
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

IAQ based design of an efficient DCV system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Image-based control of artificial lights
Iversen, A. 2010
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Internal Insulation of Masonry Walls with Wooden Floor Beams in Northern Humid Climate
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Investigations on small low flow SDHW systewms with different solar pumps and solar collector loops
Furbo, S. & Fan, J. 2010 Department of Civil Engineering, Technical University of Denmark. (Uden navn; No. SR-10-05).
Publication: Research › Report – Annual report year: 2010

KLIMATISK MANGFOLDIGHED I BYEN: Ny forskning på DTU viser, at der er en dynamisk sammenhæng mellem byens liv og det lokale mikroklima.
Strømann-Andersen, J. B. 2010 In : Byplan. 3, 62, p. 32-36
Publication: Communication › Journal article – Annual report year: 2010
Kombinerede sol/varmepumpeanlæg i praksis: analyse af måledata
Andersen, E. & Furbo, S. 2010 (Uden navn; No. SR 10-09).
Publication: Research › Report – Annual report year: 2010

Konvektionsstrømninger i rum fra personer som varmekilde
Publication: Communication › Journal article – Annual report year: 2010

Lavenerghuset i Sisimiut 5 år
Rode, C. 2010 In : H V A C Magasinet. 7, p. 30-32
Publication: Research › Journal article – Annual report year: 2010

Low-energy house in Sisimiut: Annual report of Low-energy house performance July 2009 to June 2010
Publication: Research - peer-review › Report – Annual report year: 2010

Method and simulation program informed decisions in the early stages of building design
Publication: Research - peer-review › Journal article – Annual report year: 2010

Modeling local hygrothermal interactions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Monitoring system in new dormitory APISSEQ, Sisimiut, Greenland.
Publication: Research › Report – Annual report year: 2011

New Systems Thinking and Policy Means for Sustainable Energy Development
Publication: Research - peer-review › Book chapter – Annual report year: 2010

Non-linear phenomena in greybox-modeling of heat dynamics in buildings
Publication: Research › Article in proceedings – Annual report year: 2010

Numerical modelling of dynamic effects in porous media flow
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

One-mode hybrid ventilation til lavenergibygninger
Hviid, C. A. 2010 In : HVAC Magasinet. 12, p. 22-30
Publication: Communication › Journal article – Annual report year: 2010

Optimization of systems with the combination of ground-source heat pump and solar collectors in dwellings
Publication: Research - peer-review › Journal article – Annual report year: 2010

Out-phasing of fossil fuels before 2050: Danish Case Study
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010
Passive hygrothermal control of a museum storage building in Vejle
Publication: Research › Report – Annual report year: 2010

Performance of a multifunctional PV/T hybrid solar window
Davidsson, H. & Perers, B. 2010 In : Solar Energy. 84, p. 365-372
Publication: Research - peer-review › Journal article – Annual report year: 2010

Performance of low-temperature district heating for low-energy houses
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Policy Means for 100 % Renewable Energy in Denmark Before 2050: Danish Case Study
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Pressure and temperature development in solar heating system during stagnation
Dragsted, J., Furbo, S., Chen, Z. & Perers, B. 2010 Pressure and temperature development in solar heating system during stagnation.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Renovation of Single-Family Houses – An Emerging Market
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Solar Electric heating systems using smart solar tanks and variable electricity costs
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Solfangerkreds med stor ekspansionsbeholder og fordampning i solfanger ved faretruede høje temperaturer til sikring af solfangervæske og anlæg
Dragsted, J., Furbo, S., Perers, B. & Chen, Z. 2010
Publication: Research › Report – Annual report year: 2010

Steady-state heat losses in pipes for low-energy district heating
Dalla Rosa, A., Li, H. & Svendsen, S. 2010 12th International Symposium on District Heating and Cooling. p. 82-90
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Strategi for udvikling af lavenergiløsninger til eksisterende byggeri
Tommerup, H. M. 2010 (BYG Sagsrapport; No. SR 10-02).
Publication: Research - peer-review › Book – Annual report year: 2010

Sustainable degrowth through more amateur economy
Publication: Research › Article in proceedings – Annual report year: 2010

TEMPERATURE DISTRIBUTION MONITORING AND ANALYSES AT DIFFERENT HEATING CONTROL PRINCIPLES
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010
A drying coefficient for building materials: Ein Trocknungskoeffizient für Baustoffe
Publication: Research - peer-review › Journal article – Annual report year: 2009

Analysis of promising sustainable renovation concepts
Publication: Research › Report – Annual report year: 2009

An efficient numerical solution method and implementation for coupled heat, moisture and salt transport.: The Delphin Simulation Program
Publication: Research - peer-review › Book chapter – Annual report year: 2009

A new concept for combsystems characterization: The FSC method
Perers, B. 2009 In : Solar Energy. 83, 9, p. 1540-1549
Publication: Research - peer-review › Journal article – Annual report year: 2009

Annual Report 2008
Publication: Research – Annual report year: 2009

An onset to whole-building hygrothermal modeling under wind-driven rain loads.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Applying measured reflection from the ground to simulations of thermal performance of solar collectors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Auf der Mauer auf der Lauer: Dem Schimmel auf der Spur
Scheffler, G. A. 2009 In : Gebaeude-Energieberater. 5, 3, p. 32-37
Publication: Communication › Journal article – Annual report year: 2009

Befolkningstallet, den glemte faktor i klimadebatten
Nørgaard, J. 2009
Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

Behovstyret ventilation til enfamiliahuse
Publication: Research › Report – Annual report year: 2009

Buildings: consuming and conserving energy
Publication: Research › Book chapter – Annual report year: 2009
Energidesign: -meddelelse til personalet på Spaceship Earth
Strømann-Andersen, J. B. 2009 In : ArkitekturM. 1, 5, p. 32-34
Publication: Communication › Journal article – Annual report year: 2010

Energisparemuligheder i eksisterende bygninger
Tommerup, H. M. & Lauritsen, D. 2009 In : H V A C Magasinet. 7, p. 48-51
Publication: Communication › Journal article – Annual report year: 2009

European Home Energy
Publication: Communication › Journal article – Annual report year: 2009

Evidence on dynamic effects in the water content - water potential relation of building materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Examples of Sustainable buildings and renovation projects from Greenland to Denmark
Publication: Research › Article in proceedings – Annual report year: 2009

Forfriskende syn på bæredygtighed (Refreshing view on sustainability): Review of book by S.E. Jørgensen: Bæredygtighed - Naturen viser vejen (Sustainability - Nature shows the way)
Nørgaard, J. 2009 In : Aktuel Naturvidenskab. 5, p. 45
Publication: Communication › Journal article – Annual report year: 2009

From EMPD to CFD – overview of different approaches for Heat Air and Moisture modeling in IEA Annex 41.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Household classification according to electricity consumption
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Humidity in air during and after humidifying incidents in three different houses
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Impact, absorption and evaporation of raindrops on building facades
Publication: Research - peer-review › Journal article – Annual report year: 2009

Impact of wind-driven rain on historic brick wall buildings in a moderately cold and humid climate: Numerical analyses of mould growth risk, indoor climate and energy consumption
Publication: Research - peer-review › Journal article – Annual report year: 2009

Implementation of Models for Building Envelope Air Flow Fields in a Whole Building Hygrothermal Simulation Tool
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009
Influence of the convective surface transfer coefficients on the Heat, Air, and Moisture (HAM) building performance
Steskens, P. W. M. H., Janssen, H. & Rode, C. 2009 In: Indoor and Built Environment. 18, 3, p. 245-256
Publication: Research - peer-review › Journal article – Annual report year: 2009

In situ determination of the moisture buffering potential of room enclosures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Introduction Workshop for New Students in the CDIO Program
Christensen, J. E. 2009 Introduction Workshop for New Students in the CDIO Program.
Publication: Research › Article in proceedings – Annual report year: 2009

Klimadebatoplæg (Climate debate presentation)
Nørgaard, J. 2009
Publication: Communication › Sound/Visual production (digital) – Annual report year: 2009

Levetid for solfangere i solvarmcenraler
Publication: Research › Report – Annual report year: 2009

Long term investigations of thermal performance and energy savings for a solar combi system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Low-energy house in Sisimiut: Annual report of Low-energy house performance July 2008 to June 2009
Publication: Research › Report – Annual report year: 2009

Making It Personal: Per Capita Carbon Allowances
Publication: Research - peer-review › Book chapter – Annual report year: 2009

Methods to determine stratification efficiency of thermal energy storage processes—Review and theoretical comparison
Publication: Research - peer-review › Journal article – Annual report year: 2009

Modeling Local Hygrothermal Interaction: Local surface transfer coefficients
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Moisture storage and transport properties influenced by salt crystallization inside porous materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Once again about “The Limits to Growth” (in Russian)
Publication: Research - peer-review › Journal article – Annual report year: 2009
Opgiv den u-økonomiske vækst (Abandon the un-economic growth)
Nørgaard, J. 2009 In : JAK-bladet,. 79, 3, p. 14-17
Publication: Communication › Journal article – Annual report year: 2010

Passive Houses for Arctic.: Measures and Alternatives
Publication: Research › Article in proceedings – Annual report year: 2009

Passive Houses for Arctic.: What buildings should we build in Arctic?
Publication: Research › Poster – Annual report year: 2009

Performance of the Low-energy House in Sisimiut.
Publication: Research › Article in proceedings – Annual report year: 2009

Personal Carbon Allowances with Focus on the Energy Systems in the UK and Denmark (in Russian)
Publication: Research - peer-review › Journal article – Annual report year: 2009

Projected beam irradiation at low latitudes using Meteonorm database
Hatwaambo, S., Perers, B. & Karlsson, B. 2009 In : Renewable Energy. 34, 5, p. 1394-1398
Publication: Research - peer-review › Journal article – Annual report year: 2009

Qualitative and quantitative assessment of interior moisture buffering
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Qualitative and quantitative assessment of interior moisture buffering by enclosures
Publication: Research - peer-review › Journal article – Annual report year: 2009

Rational use of supply air in residential buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Renovation of standardized typical single family house to Passive House Standards by means of simulation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Simulated influence of the surrounding buildings on the daylight availability in the master plan and on the working plane
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Simulation of thermal indoor climate in buildings by using human Projected Area Factors
Christensen, J. E. 2009 Simulation of thermal indoor climate in buildings by using human Projected Area Factors.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Solar Electric Heating for the future Energy System
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009
Solar energy

Publication: Research › Book chapter – Annual report year: 2009

Solar transmittances for glass covers with and without antireflection treatment under real climatic conditions

Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Solstråling: Undervisningsnotat om solstråling

Publication: Education › Compendium/lecture notes – Annual report year: 2009

Solvarmeanlæg til kombineret rumopvarmning og brugsvandsopvarmning
Furbo, S. 2009 In : DANVAK magasinet. 9, p. 36

Publication: Communication › Journal article – Annual report year: 2003

Strategies for mitigation of global warming

Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Strategies for Sustainable Energy Development

Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Strategi for udvikling af integrerede lavenergiløsninger til nye bygninger

Publication: Research › Report – Annual report year: 2009

Sustainability at no Cost
Nørgaard, J. 2009

Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

Sustainable Buildings: DTU Climate Change Technologies

Publication: Communication › Report – Annual report year: 2009

Sustainable energy: wind, solar and biomass

Publication: Research › Book chapter – Annual report year: 2009

Temperature distribution in Risø Flexhouse Room 3 with different heating control principles
Simone, A. & Rode, C. 2009 (BYG Sagsrapport; No. SRc 09-07).

Publication: Research › Report – Annual report year: 2009

Theoretical variations of the thermal performance of different solar collectors and solar combi systems as function of the varying yearly weather conditions in Denmark
Andersen, E. & Furbo, S. 2009 In : Solar Energy. 83, 4, p. 552-565

Publication: Research - peer-review › Journal article – Annual report year: 2009
Thermal stratification in a hot water tank established by heat loss from the tank
Fan, J. & Furbo, S. 2009
Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

Thermal stratification in a hot water tank established by heat loss from the tank
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Towards a reliable prediction of moisture response of walls to wind-driven rain
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Tragedy of the Commons
Nørgaard, J. 2009
Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

UDVIKLING AF CDIO I DESIGN BUILD KURSUS PÅ DTU BYG
Christensen, J. E. 2009 UDVIKLING AF CDIO I DESIGN BUILD KURSUS PÅ DTU BYG.
Publication: Research › Conference abstract in proceedings – Annual report year: 2009

Udvikling af fremtidssikret solvarmeanlæg
Publication: Communication › Journal article – Annual report year: 2009

Udvikling af nye typer energivinduer af kompositmaterialer: Designforslag til profilsystemer
Publication: Research - peer-review › Report – Annual report year: 2009

Udvikling af nye typer solafskærmningssystemer baseret på dagslyssdikkerende solafskærmende glaslameller
Publication: Research - peer-review › Report – Annual report year: 2009

Untersuchung von Schimmelproblemen - Nutzung oder Gebäudehülle?
Scheffler, G. A. 2009 In : T G A Fachplaner. 8, Juli 2009, p. 38-42
Publication: Research - peer-review › Journal article – Annual report year: 2009

Weather test reference years of Greenland
Publication: Research › Report – Annual report year: 2009

Advanced simulations of energy demand and indoor climate of passive ventilation systems with heat recovery and night cooling
Hviid, C. A. & Svendsen, S. 2008
Publication: Research › Conference abstract for conference – Annual report year: 2008

Advanced storage concepts for solar and low energy buildings: IEA Task 32 final report
Publication: Research › Report – Annual report year: 2008

A Long Term Test of Differently Designed Evacuated Tubular Collectors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008
A Method for more specific Simulation of Operative Temperature in Thermal Analysis Programmes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Analyse af energikrav til vinduer i energimærkningsordning og BR 2010, 2015 og 2020
Svendsen, S. & Laustsen, J. B. 2008 DTU Byg, Danmarks Tekniske Universitet. (BYG Sagsrapport; No. SR 08-06).
Publication: Research › Report – Annual report year: 2008

Annex 41 - Subtask 2 - Chapter 3 - Buffer potential characterisation
Publication: Research - peer-review › Book chapter – Annual report year: 2008

Annex 41 - Subtask 4 - Chapter 3.2 - Passive strategies
Publication: Research - peer-review › Book chapter – Annual report year: 2008

Annual Report 2007
Publication: Communication › Report – Annual report year: 2008

A simple model for a reliable prediction of moisture storage within building energy simulation tools
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

BSim simulering af hygrotermiske forhold i 3 huse
Rode, C. 2008 DTU Byg, Danmarks Tekniske Universitet. (BYG Sagsrapport; No. SR 08-02).
Publication: Research › Report – Annual report year: 2008

Buoyancy effects on thermal behavior of a flat-plate solar collector
Publication: Research - peer-review › Journal article – Annual report year: 2008

CFD Study of Fluid Flow in an All-glass Evacuated Tube Solar Water Heater
Ai, N., Fan, J. & Li, Y. 2008 In : Journal of Beijing University of Aeronautics and Astronautics. 34, 10, p. 1195-1199
Publication: Research - peer-review › Journal article – Annual report year: 2008

Characterization and performance evaluation of solar shading devices
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Common Exercises in Whole Building HAM Modelling
Publication: Research › Article in proceedings – Annual report year: 2008
Comparison of a Constant Air Volume (CAV) and a Demand Controlled Ventilation (DCV) System in a Residential Building
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Comparison of a constant air volume system and a demand controlled ventilation system in a residential building
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Consumer Unit for Low Energy District Heating Net
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Demand controlled ventilation in a bathroom
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Designguide til valg af vinduesløsninger i boliger: Slutrapport til BOLIGFONDENKUBEN
Publication: Research - peer-review › Report – Annual report year: 2008

Dynamic effects in porous media flow – first modelling efforts
Publication: Research › Article in proceedings – Annual report year: 2008

Dynamic effects in the water content – water potential relation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Energibesparelser i bygninger i den offentlige sektor
Publication: Research - peer-review › Report – Annual report year: 2008

Energiøkonomisk boligventilation
Nielsen, T. R. 2008
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Energirenovering af typisk parcelhus opført i perioden 1960-1980: Del1: beregninger
Publication: Research - peer-review › Report – Annual report year: 2008

Energy Gaining Windows for Residential Buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Energy savings for a solar combi system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008
Impact of furnishing on room airflow

Influence of furnishing on indoor airflow near external walls

Influences of the Indoor Environment on Heat, Air and Moisture Conditions in The Building Component: Boundary Conditions Modeling

Influences of the Indoor Environment on Heat, Air, and Moisture Conditions in the Component: Boundary conditions modeling

Innovateur in Sachen Windenergie - Dänemark

In situ determination of the moisture buffering capacity of room enclosures

Integrated design and Passive Houses for Arctic Climates

Investigation of airflow patterns in a microclimate by particle image velocimetry (PIV)

Investigation of solar radiation models for high northern latitudes
Dragsted, J., Furbo, S. & Andersen, E. 2008 *Bæredygtig energiforsyning i Arktis: sol, vind, vand mm.*

Investigations on stratification devices for hot water stores

Long-term investigation of the advantages of anti reflection treated glass covers exposed to real climatic conditions

Publication: Research - peer-review » Report – Annual report year: 2008

Publication: Research - peer-review » Article in proceedings – Annual report year: 2008

Publication: Research - peer-review » Article in proceedings – Annual report year: 2008

Publication: Research - peer-review » Book chapter – Annual report year: 2008

Publication: Research » Article in proceedings – Annual report year: 2008

Publication: Research » Article in proceedings – Annual report year: 2008
Long time durability tests of fabric inlet stratification pipes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Low energy class 1 typehouses according to the Danish building regulations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Measurement results and experiences from an energy renovation of a typical Danish single-family house
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Measurements on a new developed compact solar combisystem in practice
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Method for including detailed evaluation of daylight levels in Be06
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Method for integrated design of low energy buildings with high quality indoor environment
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Mitigation of Global Warming with Focus on Personal Carbon Allowances
Meyer, N. I. 2008
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Mitigation of Global Warming with Focus on Personal Carbon Allowances
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Moisture buffering and its consequence in whole building hygrothermal modeling
Rode, C. & Grau, K. 2008 In : Journal of Building Physics. 31, 4, p. 333-360
Publication: Research - peer-review › Journal article – Annual report year: 2008

Moisture transfer across the interface between brick and mortar joint
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Non-isothermal Moisture Transport Through Insulation Materials
Publication: Research - peer-review › Journal article – Annual report year: 2008

Occupants' satisfaction with the visual environment in a single office with individual lighting and solar shading control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008
Passive Houses for Arctic Climates
Publication: Research › Article in proceedings – Annual report year: 2008

Passive ventilation systems with heat recovery and night cooling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Passive ventilation systems with heat recovery and night cooling
Hviid, C. A. & Svendsen, S. 2008
Publication: Research › Poster – Annual report year: 2008

Performance investigations of differently designed heat-pipe evacuated tubular collectors in the Artic climate
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Personal Carbon Allowances - with Focus on the Energy Systems in the UK and Denmark
Fawcett, T., Hvelplund, F. & Meyer, N. I. 2008 published by CBS on homepage: http://energizing-markets.cbs.dk/: the paper may be down-loaded from indicated CBS homepage. web homepage as indicated above
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Proceedings of the 8th symposium on building physics in the nordic countries: Copenhagen, June 16-18, 2008
Publication: Research - peer-review › Report – Annual report year: 2008

Promoting renewable energy: Lessons learned from 20 years of experimentation
Publication: Research - peer-review › Book chapter – Annual report year: 2008

Quasi-steady-state model of a counter flow air-to-air heat exchanger with phase change
Publication: Research - peer-review › Journal article – Annual report year: 2008

Results of IEA SHC Task 32: Subtask C: Phase Change Materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Simple tool to evaluate the impact of daylight on building energy consumption
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Simple tool to evaluate the impact of daylight on building energy consumption
Publication: Research - peer-review › Journal article – Annual report year: 2008

Solar Heating Research at Byg DTU
Perers, B. 2008
Publication: Research › Poster – Annual report year: 2008
Solar heating systems in the Arctic
Dragsted, J., Furbo, S. & Fan, J. 2008 Bæredygtig energiforsyning i Arktis: Sol, vind, vand mm..
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Solarkombi-kompaktsystem im Praxistest - Ein Messjahr im Demonstrationshaus
Publication: Research - peer-review › Conference article – Annual report year: 2008

Solar Shading System Based on Daylight Directing Glass Lamellas
Publication: Research - peer-review › Conference article – Annual report year: 2008

Stratification devices
Publication: Research › Article in proceedings – Annual report year: 2008

Synthèse sur la modélisation thermo-hygro-aéraulique des bâtiments dans l’Annexe 41 de l’Agence Internationale de l’Energie
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Teglvægges fugtoptag og afgivelse ved pludselige ændringer af den indvendige fugtbelastning
Publication: Research - peer-review › Report – Annual report year: 2008

The cooling capacity of the thermo active building system combined with acoustic ceiling
Weitzmann, P., Pittarello, E. & Olesen, B. W. 2008 Nordic Symposium on Building Physics. Technical University of Denmark (DTU)
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

The dependable characterisation of the moisture buffer potential of interior claddings
Janssen, H. 2008 Proceedings of the “8th Symposium on Building Physics in the Nordic Countries”.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

The influence of surface treatment on mass transfer between air and building material
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Theoretical comparison between solar combisystems based on bikini tanks and tank-in-tank solar combisystems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Thermovision in Arctic
Vladyková, P. 2008
Publication: Research › Poster – Annual report year: 2008

Tool for selection of windows in dwellings
Publication: Research - peer-review › Conference article – Annual report year: 2008
Tools for Performance Simulation of Heat, Air and Moisture Conditions of Whole Buildings
Woloszyn, M. & Rode, C. 2008 In : Building Simulation. 1, 1, p. 5-24
Publication: Research - peer-review › Journal article – Annual report year: 2008

TRNSYS simulation of the consumer unit for low energy district heating net
Fan, J., Furbo, S. & Svendsen, S. 2008 Technical University of Denmark (DTU). (BYG Sagsrapport; No. SR 08-03).
Publication: Research › Report – Annual report year: 2008

Varmepumper og Lavtemperatur-fjernvarme - Rapportering fra to workshops
Publication: Research › Report – Annual report year: 2008

Whole Building Heat, Air, Moisture Response: Modelling Principles and Common Exercises
Publication: Research - peer-review › Book – Annual report year: 2008

Whole-Building Hygrothermal Modeling in IEA Annex 41: Towards a new Annex?
Rode, C. 2008
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Wind-driven rain impact on historical brick wall buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Wind Energy Pocket Reference
Publication: Research - peer-review › Book – Annual report year: 2008

Compact Solar Combi system: High Efficiency by Minimizing Temperatures
Publication: Research › Ph.D. thesis – Annual report year: 2007

Hygrothermal Microclimate on Interior Surfaces of the Building Envelope
Publication: Research › Ph.D. thesis – Annual report year: 2007

Solar combi systems
Publication: Research › Ph.D. thesis – Annual report year: 2007

A method for optimizing the performance of buildings
Publication: Research › Ph.D. thesis – Annual report year: 2007

A method for evaluating the problem complex of choosing the ventilation system for a new building
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007
Energy-efficient houses built according to the energy performance requirements introduced in Denmark in 2006

Energy Renovation of a Typical Danish Single-family House

Energy savings for a solar heating system in practice

Experimental investigations on small low flow SDHW systems based on mantle tanks

FLOW DISTRIBUTION IN A SOLAR COLLECTOR PANEL WITH HORIZONTAL ABSORBER STRIPS

Flow distribution in a solar collector panel with horizontally inclined absorber strips

Forbedret varmtvandsbeholder til små solvarmeanlæg til brugsvarmeopvarmning
Fan, J. & Furbo, S. 2007 (BYG Sagsrapport; No. SR 07-05).

Heat losses through pipe connections in hot water stores

Hygroscopic behaviour of paper and books


Investigation of Microclimate by CFD Modeling of Moisture Interactions between Air and Constructions

Investigation on test method for a flat plate collector

Large eddy simulations of flow instabilities in a stirred tank generate by a Rushton turbine
Lavenergihuset i Sisimiut: Årsrapport for Lavenergihusets ydeevne juli 2006 til juni 2007
Publication: Research › Report – Annual report year: 2007

Lavenergihuset i Sisimiut: Årsrapport for lavenergihusets ydeevne juli 2007-juni 2008
Kragh, J. 2007 DTU Byg, Danmarks Tekniske Universitet. (BYG Sagsrapport; No. SR 08-03).
Publication: Research › Report – Annual report year: 2007

Lavenergihus højt mod nord
Publication: Research › Journal article – Annual report year: 2007

Learning from Wind Energy Policy in the EU: Lessons from Denmark, Sweden and Spain
Publication: Research - peer-review › Journal article – Annual report year: 2007

Måling af bygningers lufttæthed
Publication: Communication › Journal article – Annual report year: 2007

Måling og beregning af samlet U-værdi for "Frederiksbergvindue", 1920 med koblede rammer
Publication: Research › Report – Annual report year: 2007

Measured reflection from snow
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Moisture Buffer Value of Building Materials
Publication: Research - peer-review › Conference article – Annual report year: 2007

Moisture transfer through mortar joints: interface resistances or hygric property changes ?
Publication: Research › Article in proceedings – Annual report year: 2007

Multilayer fabric stratification pipes for solar tanks
Andersen, E., Furbo, S. & Fan, J. 2007 In : Journal of Solar Energy. 81, 10, p. 1219-1226
Publication: Research - peer-review › Journal article – Annual report year: 2007

Naturlig ventilation kombineret med varmøgenvinding og natkøling
Hviid, C. A. 2007 In : H V A C Magasinet. 5, p. 92
Publication: Communication › Journal article – Annual report year: 2007

New counter flow heat exchanger designed for ventilation systems in cold climates
Publication: Research - peer-review › Journal article – Annual report year: 2007

Numerical simulation of absorption and evaporation of wind driven rain at building facades
Publication: Research › Article in proceedings – Annual report year: 2007
Optimering og afprøvning af solfanger til solvarmecentraler
Fan, J. & Furbo, S. 2007 (BYG Sagsrapport; No. SR 07-07).
Publication: Research › Report – Annual report year: 2007

Plus-energivindue
Publication: Communication › Journal article – Annual report year: 2007

Proper Sizing of Circulation Pumps
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Prototypeløsninger på ventilationsaggregater
Publication: Research › Journal article – Annual report year: 2007

SIDE-BY-SIDE TESTS OF DIFFERENTLY DESIGNED EVACUATED TUBULAR COLLECTORS
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Små ændringer af kappebeholder kan øge ydelsen af solvarmeanlæg
Publication: Communication › Journal article – Annual report year: 2007

Solafskærmningers egenskaber
Laustsen, J. B. & Johnsen, K. 2007 In : Arkitekten. 109, 3, p. 76-77
Publication: Communication › Journal article – Annual report year: 2007

Solar combi system based on a mantle tank
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Solar heating systems with heat of fusion storage with 100% solar fraction for solar low energy buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Solar thermal component adapted to common building standards (SCAS)
Publication: Research - peer-review › Report – Annual report year: 2007

Solar thermal components adapted to common building standards (SCAS)
Publication: Research - peer-review › Book – Annual report year: 2007

Solenergitransmittans for strækmetalriste
Publication: Research › Report – Annual report year: 2007

The importance of moisture buffering for indoor climate and energy conditions of buildings
The International Building Physics Toolbox in Simulink

Publication: Research - peer-review › Journal article – Annual report year: 2007

Theoretical comparison of solar water/space-heating combi systems and stratification design options

Publication: Research - peer-review › Journal article – Annual report year: 2007

Theoretical flow investigations of an all glass evacuated tubular collector

Publication: Research - peer-review › Journal article – Annual report year: 2007

Towards new standards for advanced stores: Final report
Furbo, S., Andersen, E. & Vogelsanger, P. 2007

Publication: Research - peer-review › Report – Annual report year: 2007

Transmittans, reflektans og g-værdi for glas og ruder med integrerede PV-moduler

Publication: Research - peer-review › Report – Annual report year: 2007

Transparent aerogel Windows: results from an EU FP5 project

Publication: Research - peer-review › Paper – Annual report year: 2007

VALIDATION OF SIMULATION MODELS FOR DIFFERENTLY DESIGNED HEAT-PIPE EVACUATED TUBULAR COLLECTORS

Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Whole-Building Hygrothermal Modeling in IEA Annex 41

Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Wind-driven rain as a boundary condition for HAM simulations: analysis of simplified modelling approaches

Publication: Research - peer-review › Journal article – Annual report year: 2007

A comparison of the Nordtest and Japanese test methods for the moisture buffering performance of building materials

Publication: Research - peer-review › Journal article – Annual report year: 2006

Adaptive integration of element matrices in finite element moisture transfer simulations

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Advanced storage concepts for solar thermal systems in low energy buildings. Slutrapport

Publication: Research › Report – Annual report year: 2006
Danish and Brazilian Modeling of Whole-Building Hygrothermal Performance
Publication: Research › Article in proceedings – Annual report year: 2006

Design of medium sized solar combi systems
Andersen, E. 2006
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Development of a compact solar combisystem
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Drying of aerated cellular concrete
Janssen, H. & Rode, C. 2006 Technical University of Denmark (DTU). (SR; No. 06-07).
Publication: Research › Report – Annual report year: 2006

Effect of airflow velocity on moisture exchange at surfaces of building materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Elbehovet til cirkulationspumper i én- og tofamiliehuse, nu og i fremtiden
Publication: Research - peer-review › Report – Annual report year: 2006

Energy Savings for Solar Heating Systems
Publication: Research - peer-review › Conference article – Annual report year: 2006

Energy savings in Danish residential building stock
Publication: Research - peer-review › Journal article – Annual report year: 2006

Evaluation of Test Method for Solar Collector Efficiency
Publication: Research › Conference abstract for conference – Annual report year: 2006

Experimental investigation of forced-convection in a finned rhombic tube of the flat-plate solar collectors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Fabric inlet stratifiers for advanced water stores
Andersen, E. 2006
Publication: Research › Paper – Annual report year: 2006

Fabric inlet stratifiers for solar tanks with different volume flow rate
Andersen, E. 2006
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Fabric inlet stratifiers for solar tanks with different volume flow rates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006
Fabric inlet stratifiers for solar tanks with different volume flow rates  
Andersen, E. 2006  
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Fabric stratification devices - Multilayer fabric stratifier  
Andersen, E. 2006  
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Fyrtånsbygd - 083 Sarfannguaq: Forprojekt  
Lyngby: Technical University of Denmark (DTU). 82 p.  
Publication: Research › Report – Annual report year: 2006

Heat of Fusion Storage with High Solar Fraction for Solar Low Energy Buildings  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Hygric buffering capacities of uncoated and coated gypsum board  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Hygrothermal simulation of masonry under atmospheric excitation  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Improved design of mantle tanks for small low flow SDHW systems  
Publication: Research - peer-review › Journal article – Annual report year: 2006

Influence of government policy on the promotion of wind power  
Publication: Research - peer-review › Journal article – Annual report year: 2006

INLET STRATIFICATION DEVICE  
Andersen, E. & Furbo, S. 2006  
Publication: Research › Patent – Annual report year: 2006

Innovative Danish Building Envelope Components for Passive Houses  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Investigations of medium sized solar combi systems  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Investigations of medium sized solar combi systems  
Andersen, E. 2006  
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Køling og opvarmning med termoaktive konstruktioner  
Weitzmann, P. 2006 In : Arkitekten. 11, p. 38-42
Publication: Research › Report – Annual report year: 2006

Lavenergihuset i Sisimiut.: Notat om aktiviteter udført som led i KVUG-projekt: Indlejring af erfaringer fra lavenergihus i Sisimiut.
Publication: Research › Report – Annual report year: 2006

Learnings from wind energy policy in EU, with focus on Denmark, Sweden and Spain.
Meyer, N. I. 2006
Publication: Research - peer-review › Paper – Annual report year: 2006

Liquid water transport in wood: a first step approach in mesoscopic modelling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Local wind speed near exterior building surfaces for convective transfer coefficients
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Modelling the Hygrothermal Interaction Between Materials and the Indoor Climate
Rode, C. & Peuhkuri, R. H. 2006 Proceedings of WTA Kolloqium "Bauinstandsetzen + Bauphysik III". WTA
Publication: Research › Report – Annual report year: 2006

Moisture buffer value: A comprehensive analysis of essential parameters
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Moisture Buffer Value of Building Materials
Publication: Research › Report – Annual report year: 2006

Naturlig ventilation med varmegenvinding
Hviid, C. A. & Svendsen, S. 2006 In : Arkitekten. 2
Publication: Communication › Journal article – Annual report year: 2006

Neuentwicklung eines Solarkombi-Kompaktsystems
Publication: Research › Article in proceedings – Annual report year: 2006

Neuentwicklung eines Solarkombi-Kompaktsystems
Publication: Communication › Journal article – Annual report year: 2006

Nordic Energy Research Cooperation on Solar Combisystems
Simulation Tests in Whole Building Heat and Moisture Transfer
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Solar Combisystems: Introduction to concepts - U079
Thür, A. 2006
Publication: Education › Compendium/lecture notes – Annual report year: 2006

Solar heating systems for combined space heating and domestic hot water supply
Thür, A. 2006
Publication: Education › Compendium/lecture notes – Annual report year: 2006

Store energibesparelser ved nyt solvarmekoncept: Kompakt solvarmeanlæg til kombineret rumopvarmning og brugsvandsopvarmning
Publication: Communication › Journal article – Annual report year: 2006

Stratification design options
Andersen, E. 2006
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

The Concept of Moisture Buffer Value of Building Materials and its Application in Building Design
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

The Effect of the Volume Flow rate on the Efficiency of a Solar Collector
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2006

Theoretical comparison of solar combi systems and stratification design options
Andersen, E. 2006
Publication: Research › Paper – Annual report year: 2006

The Wick-Concept for Thermal Insulation of Cold Piping
Koverdynsky, V., Korsgaard, V. & Rode, C. 2006 In : Journal of Building Physics. 29, 4, p. 313-327
Publication: Research - peer-review › Journal article – Annual report year: 2006

Vind- og solprojekt i Uummannaq Kommunia: Forprojekt
Publication: Research › Report – Annual report year: 2006

Whole building approach and hygrothermal risk analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Analysis of the flow structure and heat transfer in a vertical mantle heat exchanger
Publication: Research - peer-review › Conference article – Annual report year: 2005
Effect of method, step size and drying temperature on sorption isotherms
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Effektivitet og flowfordeling for HT solfangere
Fan, J. & Furbo, S. 2005
Publication: Research › Report – Annual report year: 2005

Energibesparelser for "ventilationsvinduet"
Tommerup, H. M. 2005
Publication: Research › Report – Annual report year: 2005

Energy efficient building
Publication: Research - peer-review › Report – Annual report year: 2005

Energy efficient houses built according to the energy performance requirements introduced in 2005 in Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Energy performance of the low-energy house in Greenland
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Energy performance of windows based on the net energy gain
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Energy renovation of an old single-family house
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Evacuated Tubular Collectors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

FLOW DISTRIBUTION IN A SOLAR COLLECTOR PANEL WITH HORIZONTAL FINS
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Fremtidens boligvarmning i relation til nye energibestemmelser 2006
Tommerup, H. M. 2005
Publication: Research › Report – Annual report year: 2005

Full scale tests of moisture buffer capacity of wall materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005
Gulvvarmeanlæg: en introduktion
Weitzmann, P. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Heat of fusion storage
Furbo, S. 2005 (Educational notes; No. U-069).
Publication: Research › Report – Annual report year: 2005

Heat of Fusion Storage with High Solar Fraction for Solar Low Energy Buildings
Schultz, J. M. & Furbo, S. 2005
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

Heat Storage for Solar Heating Systems
Furbo, S. 2005 (Educational notes; No. U-071).
Publication: Research › Report – Annual report year: 2005

Heat transfer correlations in mantle tanks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Publication: Research - peer-review › Report – Annual report year: 2005

Publication: Research - peer-review › Report – Annual report year: 2005

Publication: Research - peer-review › Report – Annual report year: 2005

How mixing during hot water draw-offs influence the thermal performance of small solar domestic hot water systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Improved Windows for Cold Climates
Publication: Research › Article in proceedings – Annual report year: 2005

Improved Windows for Cold Climates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Insulation materials for advanced water storages
Publication: Research › Book chapter – Annual report year: 2005
Intern varmebelastning
Laustsen, J. B. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Investigation of airflow patterns in microclimates with Particle Image Velocimetry (PIV)
Mortensen, L. H., Mertens, J., Rode, C. & Peuhkuri, R. H. 2005
Publication: Research › Report – Annual report year: 2005

Investigation of heat of fusion storage for solar low energy buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Investigation of microclimate between wall and furniture with CFD
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Investigations of fabric stratifiers for solar tanks
Andersen, E. 2005
Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Investigations of medium sized solar heating systems
Andersen, E. 2005
Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Investigations of solar combi systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

INVESTIGATIONS ON DESIGN OF HEAT STORAGE PIPE CONNECTIONS FOR SOLAR COMBISYSTEMS
Publication: Research › Conference article – Annual report year: 2005

INVESTIGATIONS ON DESIGN OF HEAT STORAGE PIPE CONNECTIONS FOR SOLAR COMBISYSTEMS
Atsinaujinancios energijos informacijos konsultacinis centras, Vol. 1/1
Publication: Research › Article in proceedings – Annual report year: 2005

Laboratory Tests of Small SDHW Systems
Furbo, S. 2005
Publication: Research › Report – Annual report year: 2005
LARGE EDDY SIMULATIONS OF THE TURBULENT FLOW IN A STIRRED TANK
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Learnings from liberalised energy markets
Meyer, N. I. 2005
Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Linear thermal transmittance of the assembly of the glazing and the frame in windows
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Målinger af energiforbrug i højisoleret fuldmuret dobbelthus
Tommerup, H. M. & Svendsen, S. 2005
Publication: Research › Report – Annual report year: 2005

Measured performance of 12 demonstration projects - IEA Task 13 "advanced solar low energy buildings"
Publication: Research - peer-review › Journal article – Annual report year: 2004

Mechanical ventilation with heat recovery in arctic climate
Publication: Research › Article in proceedings – Annual report year: 2005

Mechanical ventilation with heat recovery in cold climates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Method for calculating thermal properties of lightweight floor heating panels based on an experimental setup
Publication: Research - peer-review › Journal article – Annual report year: 2005

Modelling thermally active building components using space mapping
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Modelling Shadows on Evacuated Tubular Collectors with Cylindrical Absorbers.
Publication: Research - peer-review › Journal article – Annual report year: 2005

Moisture and Indoor Climate in Buildings
Publication: Research › Article in proceedings – Annual report year: 2005
Moisture Buffering of Building Materials
Publication: Research - peer-review › Report – Annual report year: 2005

Peuhkuri, R. H. & Rode, C. 2005
Publication: Research - peer-review › Report – Annual report year: 2005

Moisture Buffer Value of Materials in Buildings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Monolithic silica aerogel - material design on the nano-scale
Jensen, K. I., Schultz, J. M. & Kristiansen, F. H. 2005
Publication: Research › Poster – Annual report year: 2005

New Liquid Crystal Smart Window and Its Production Process (SmartWin II): – confidential final technical report, EU-FP5 contract ENK6-CT-2001-00549.
Publication: Research - peer-review › Report – Annual report year: 2005

New Liquid Crystal Smart Window and Its Production Process (SmartWin II): – confidential Technology Implementation Plan, EU-FP5 contract ENK6-CT-2001-00549.
Publication: Research - peer-review › Report – Annual report year: 2005

New Liquid Crystal Smart Window and Its Production Process (SmartWin II): – publishable final technical report, EU-FP5 contract ENK6-CT-2001-00549.
Publication: Research - peer-review › Report – Annual report year: 2005

New Solar Combisystem
Thür, A. 2005
Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

NORDTEST Project on Moisture Buffer Value of Materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Numerical Investigations of an All-Glass Evacuated Tubular Collector
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Opfylder HygroWick kondensisoleringsystemerne kravene i DS 452
Korsgaard, V. 2005 In : DIB - Teknisk isolering. 18, 1, p. 12-13
Publication: Communication › Journal article – Annual report year: 2005
Optimal isolering af klimaskærm i relation til nye skærpede energibestemmelser
Tommerup, H. M. 2005
Publication: Research › Report – Annual report year: 2005

Parasol: Brugervejledning
Laustsen, J. B. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Performance improvement by discharge from different levels in solar storage tanks
Publication: Research - peer-review › Journal article – Annual report year: 2005

Requirements of inverted roofs with a drainage layer.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Response of insulation materials on non-isothermal moisture transport: Final results
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Smart solar tanks for small solar domestic hot water systems
Publication: Research - peer-review › Conference article – Annual report year: 2005

Solafskærmning
Laustsen, J. B. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Solar combisystem with condensing natural gas boiler
Thür, A. & Furbo, S. 2005
Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Solar Heating Plants and Seasonal Heat Storage
Furbo, S. 2005 (Educational notes; No. U-070).
Publication: Research › Report – Annual report year: 2005

Solstråling
Laustsen, J. B. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Statusrapport 2 - bæredygtigt arktisk byggeri i det 21. århundrede: Energifrigtige ventilationssystemer
Kragh, J., Rose, J. & Svendsen, S. 2005 (BYG Sagsrapport; No. SR 05-06).
Publication: Research › Report – Annual report year: 2005

Statusrapport 2 - bæredygtigt arktisk byggeri i det 21. århundrede: Energifrigtige vinduer
Publication: Research › Report – Annual report year: 2005

Stofindløbssøer
Andersen, E. 2005
Publication: Research › Paper – Annual report year: 2005

Subtask 1- Modelling principles and common exercises
Succes of solar heating in Austria
Thür, A. & Furbo, S. 2005
Publication: Research › Article in proceedings – Annual report year: 2005

Success of Solar Heating in Austria
Publication: Research › Article in proceedings – Annual report year: 2005

Summary Report for Common Exercise 1
Rode, C. & Peuhkuri, R. H. 2005
Publication: Research › Report – Annual report year: 2005

Super insulating aerogel glazing
Publication: Research - peer-review › Conference article – Annual report year: 2005

Termisk indeklima
Laustsen, J. B. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Termisk isolering af tekniske installationer
Korsgaard, V. 2005 In : DIB - Teknisk Isolering. 18, 3, p. 8-9
Publication: Communication › Journal article – Annual report year: 2005

The actual status of the development of a Danish/Swedish system concept for a solar combisystem
Publication: Research - peer-review › Conference article – Annual report year: 2005

Theoretical and Experimental investigations of Inlet Stratifiers for Solar Storage Tanks.
Publication: Research - peer-review › Journal article – Annual report year: 2005

Theoretical investigations of an all glass evacuated tubular collector
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Theoretical Investigations of Differently Designed Heat Pipe Evacuated Tubular Collectors
Shah, L. J. 2005
Publication: Research - peer-review › Paper – Annual report year: 2005

Thermal Performance of a Large Low Flow Solar Heating System with a Highly Thermally Stratified Tank
Publication: Research - peer-review › Journal article – Annual report year: 2005

Thermal Stratification in Small Solar Domestic Storage Tanks caused by Draw-offs
Publication: Research - peer-review › Journal article – Annual report year: 2005

Total heat loss coefficient of flat roof constructions with external insulation in tapered layers including the effects of thermal bridges
TRNSYS models of Evacuated Tubular Collectors
Shah, L. J. 2005 (BYG Sagsrapport; No. SR 05-10).
Publication: Research › Report – Annual report year: 2005

Udvikling af energiøkonomisk ventilationsløsning med varmegenvinding til boliger
Publication: Research › Report – Annual report year: 2005

User Manual for the Simulation Program MANTLSIM
Furbo, S. 2005 (Educational notes; No. U-077).
Publication: Research › Report – Annual report year: 2005

User Manual for the Simulation Program SPIRALSOL
Furbo, S. 2005 (Educational notes; No. U-074).
Publication: Research › Report – Annual report year: 2005

Using dynamic moisture loading tests for determination of Moisture Buffer value: Working paper IEA Annex 41 Meeting, Montreal
Peuhkuri, R. H. & Rode, C. 2005
Publication: Research - peer-review › Report – Annual report year: 2005

Utilization of Solar Radiation at High Latitudes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Vakuumrådsolfangere til Arktis
Shah, L. J. 2005 In : Installations Nyt. 46
Publication: Research - peer-review › Journal article – Annual report year: 2005

Varmetransmission
Laustsen, J. B. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Ventilation
Laustsen, J. B. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Ventilation with heat recovery
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Vinduer
Laustsen, J. B. 2005
Publication: Education › Compendium/lecture notes – Annual report year: 2005

Warum mit einer Solaranlage die Brennstoffeinsparung weit über den Solarertrag hinaus gehen kann – ein neuer Denkansatz für die Marketingabteilung
Publication: Research › Article in proceedings – Annual report year: 2005
Weather Test Reference Year of Greenland
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Whole Building Ham Simulation With A Multizone Air Flow Model
Grau, K. & Rode, C. 2005
Publication: Research › Report – Annual report year: 2005

Modelling building integrated heating and cooling systems
Publication: Research › Ph.D. thesis – Annual report year: 2004

Investigation and optimisation of heat storage tanks for low-flow SDHW systems
Publication: Research › Ph.D. thesis – Annual report year: 2004

Hygrothermal Performance and Soiling of Exterior Building Surfaces
Publication: Research › Ph.D. thesis – Annual report year: 2004

Anforderungen an Umkehrdächer mit Trennlage: Erläuterungen zur Anwendung von EN ISO 6946
Publication: Research - peer-review › Journal article – Annual report year: 2004

A Review of Humidity Buffering in the Interior Spaces
Rode, C., Holm, A. & Padfield, T. 2004 In : Journal of Thermal Envelope and Building Science. 27, 3, p. 221-226
Publication: Research - peer-review › Journal article – Annual report year: 2004

A Space-Mapping Interpolating Surrogate Algorithm for highly Optimized EM-Based Design of Microwave Devises
Publication: Research - peer-review › Journal article – Annual report year: 2004

Beregning af bygningers varmebehov i Grønland
Publication: Research - peer-review › Report – Annual report year: 2004

Bygningers varmeisolering
Svendsen, S. & Pedersen, F. 2004 In : Arkitekten. 13, p. 6-9
Publication: Communication › Journal article – Annual report year: 2004

Calculating the heat transfer coefficient of frame profiles with internal cavities
Publication: Research - peer-review › Journal article – Annual report year: 2004

Combitest. A new Test Method for Thermal Stores used in Solar Combisystems
Furbo, S. 2004
Publication: Research › Paper – Annual report year: 2004

Competitive Solar Heating Systems for Residential buildings
Thür, A. 2004
Publication: Research › Paper – Annual report year: 2004
Competitive Solar Heating Systems for Residential Buildings
Furbo, S. 2004
Publication: Research › Paper – Annual report year: 2004

Correlation between Microclimate and Macroclimate
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Development of windows based on highly insulating aerogel glazings
Publication: Research - peer-review › Conference article – Annual report year: 2003

Education for researchers: key note presentation
Furbo, S. 2004
Publication: Research › Sound/Visual production (digital) – Annual report year: 2004

Effektiviteter for oliefyr og naturgaskedler
Furbo, S. 2004
Publication: Research › Paper – Annual report year: 2004

Energibesparelser i bygninger: Satatus over fosknings- og udviklingsaktiviteter ved DTU vedrørende energibesparelser i bygninger
Publication: Research - peer-review › Report – Annual report year: 2004

Energibesparelser i eksisterende og nye boliger
Publication: Research › Report – Annual report year: 2004

Energibesparelser med solvarmeanlæg
Shah, L. J. 2004
Publication: Research › Paper – Annual report year: 2004

Energibesparelser ved solvarmeanlæg og kedeleffektiviteter i enfamiliehuse
Furbo, S. 2004
Publication: Research › Paper – Annual report year: 2004

Energieffektiv mekanisk ventilation med energigenvinding til BR2005-huse: Erfaringer fra praksis
Tommerup, H. M. 2004 (BYG Sagsrapport; No. SR 04-05).
Publication: Research › Report – Annual report year: 2004

Energirenovering af murermesterhus
Tommerup, H. M. 2004 (BYG rapport; No. r-102).
Publication: Research - peer-review › Report – Annual report year: 2004

Energy Savings for Solar Heating Systems
Publication: Research › Article in proceedings – Annual report year: 2004

Evaluation of Moisture Buffer Effects by Performing Whole-Building Simulations
Rode, C., Mendes, N. & K., G. 2004 In : A S H R A E Transactions. 110, 2, p. 783-794
Experimental and theoretical investigations of different water storages for solar combi systems
Andersen, E. 2004
Publication: Research › Paper – Annual report year: 2004

Forsøgshus med nye typer klimaskærmskonstruktioner, fuldmuret: Del 1: konstruktioner/systemer
Publication: Research › Report – Annual report year: 2004

Fugtforhold i grønlandske boliger
Rode, C. 2004
Publication: Communication › Paper – Annual report year: 2004

Guidelines for Limiting Environmental Stress Factors in Glazed, Ventilated Solar Collectors
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Heat of fusion storage systems for combined solar systems in low energy buildings
Publication: Research › Article in proceedings – Annual report year: 2004

Hjortekær lavenerglihus - 25 år "and still going strong"
Publication: Communication › Journal article – Annual report year: 2004

Hot water tanks for solar heating systems
Publication: Research › Report – Annual report year: 2004

Impact of inlet devices on the thermal stratification of a storage tank
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Introduction to BSim
Rode, C. 2004
Publication: Research › Paper – Annual report year: 2004

Introduction to CFD
Shah, L. J. 2004
Publication: Research › Paper – Annual report year: 2004

Investigations of the SOLVIS stratification inlet pipe for solar tanks
Andersen, E. 2004
Publication: Research - peer-review › Poster – Annual report year: 2004

Investigations of the SOLVIS stratification inlet pipe for solar tanks
Andersen, E. 2004
Publication: Research › Sound/Visual production (digital) – Annual report year: 2004

Joint Implementation: Methodology and Policy Considerations
Publication: Research - peer-review › Journal article – Annual report year: 2004
Kedeleffektiviteter for oliefyr og naturgaskedler i enfamiliehuse
Publication: Research › Report – Annual report year: 2004

Kondensisolering af kølede rør ved anvendelse af vægekonceptet
Korsgaard, V. 2004 In : H V A C Magasinet. 40, 9, p. 12-17
Publication: Communication › Journal article – Annual report year: 2004

Kondensisolering af kølede rør ved hjælp af vægekonceptet
Korsgaard, V. 2004 In : Kulde Skandinavia. 19, 5, p. 12-16
Publication: Communication › Journal article – Annual report year: 2004

Krav til energiforbrug i kontorbygninger
Laustsen, J. B. 2004
Publication: Education › Compendium/lecture notes – Annual report year: 2004

LARGE EDDY SIMULATIONS OF THE TURBULENT FLOW IN A STIRRED TANK
Fan, J., Wang, Y. & Fei, W. 2004
Publication: Research › Conference abstract for conference – Annual report year: 2004

Lavenergihus i Sisimiut.: Beregnet varmebehov
Kragh, J. & Svendsen, S. 2004 (BYG Rapport; No. r-103).
Publication: Research - peer-review › Report – Annual report year: 2004

Projects:

Reducion af risiko for overtæpperatur i etageboliger i forbindelse med facaderenovering
Nielsen, T. R., Zukowska-Tejsen, D., Kolarik, J. & Sarey Khanie, M.
01/01/2017 → 01/01/2018
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IEA Task Material and component development for thermal storage systems
Furbo, S., Englmair, G., Dannemand, M. & Kong, W.
01/01/2017 → 31/12/2019
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Demonstration of energy savings and indoor climate with sustainable adiabatic cooling using rainwater
Hviid, C. A., Zukowska-Tejsen, D. & Nielsen, V.
01/01/2017 → 30/06/2019
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Thermal performance of tracking concentrating solar collectors
Furbo, S. & Perers, B.
01/11/2016 → 06/01/2017
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System solutions for demand-control and continuous-commissioning of room-based ventilation in dwellings
Kolarik, J. & Smith, K. M.
01/10/2016 → 30/09/2019
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IEA Task 55 Large scale solar district heating and cooling systems
Furbo, S., Perers, B., Tian, Z. & Huang, J.
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Solar heating plant with tracking concentrating solar collectors and flat plate solar collectors
Furbo, S., Perers, B. & Tian, Z.
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Superior inlet stratifier
Furbo, S., Dragsted, J., Aagaard, C. & Dandanell, J. M.
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Effective Design and Intelligent Control and Operation District Heating and Cooling System
Li, H., Svendsen, S. & Mazzocato, A.
15/09/2014 → 14/09/2017
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Buildings for Smart Energy Cities
Gianniou, P., Rode, C., Nielsen, P. S. & Heller, A.
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Innovationsnetwork Smart Energy (CLEAN)
Heller, A. & Madsen, H.
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Development of seasonal compact heat storage
Furbo, S., Dannemand, M., Kong, W., Fan, J. & Berg, J. B.
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Solvarme og energiforsyningens samfundsøkonomi, IEA SHC Task 52
Furbo, S. & Perers, B.
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Renew school - Sustainable school building renovation promoting timber prefabrication, indoor environment quality and active use of renewables
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Off peaking of electricity use for electrical heated energy storages
Furbo, S., Dragsted, J., Aagaard, C. & Dandanell, J. M.
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Development of PVT module for multiapartment buildings
Furbo, S., Berg, J. B. & Perers, B.
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Xella – Indvendig Efterisolering
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Ventilationsforhold i kolde tagrum som skunkrum og hanebåndsofter i konstruktioner med diffusionsåbne undertage – Etape 2.
Bjarlev, S. P., Johnston, C. J., Peuhkuri, R. H. & Hjorslev Hansen, M.
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Wireless sensor networks applied in the building sector
Heller, A., Kotol, M. & Torbensen, R.
01/10/2013 → 31/12/2014

Aluminiumsolfangere til fjernvarmen
Furbo, S. & Perers, B.
18/09/2013 → 31/12/2015

Experimental and theoretical investigations of combined solar heating/heat pump systems for single Family houses
Andersen, E., Perers, B., Furbo, S., Dandanell, J. M. & Aagaard, C.
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IEA EBC Annex 63 - Implementation of Energy Strategies in Communities
Heller, A., Petersen, J. & Rode, C.
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Improvement calculation and test methods for twin-pipe
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Testing, development and demonstration of large scale solar district heating system
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Energy-efficient ventilation with optimized damper control of flow and pressure
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IEA DHC Annex TS1: Low-temperature district heating for future energy system
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Skimmelsvampe i Grønland
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Fabric inlet stratification device
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Combined development of compact thermal energy storage technologies
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Intelligent styresystem til fremtidens solvarmeanlæg
Furbo, S. & Andersen, E.
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Stagnation temperatures for solar collectors
Furbo, S. & Chen, Z.
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Optimal designs for hot water tanks for solar domestic hot water systems
Furbo, S., Andersen, E., Dragsted, J. & Chen, Z.
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Effektiviteten af en ny luftsofanger
Furbo, S. & Andersen, E.
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Solar Resource Assessment in Denmark, IEA-SHC Task 46
Furbo, S. & Dragsted, J.
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Ventilationsforhold i skunke og hanebåndsofter i konstruktioner med diffusionsåbne undertage.
Bjarlev, S. P., Hjorslev Hansen, M. & Johnston, C. J.
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Optimization of solar heating and water heating combisystems applied in buildings
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Forskningssamarbejde mellem forskningsinstitutioner og små og mellemstore virksomheder: Solar/electric heating systems in the future energy system
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Levetid for solfangere i solvarmecentraler
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Forslag til nye energikrav til eksisterende bygningers klimaskærm
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Solar/electric heating systems in the future energy system
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Efficient air distribution methods
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Udvikling af behovstyret ventilation til enfamiliehuse
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Gæsteprofessorat inden for solvarme
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Solar Thermal Components adapted to common building standards
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01/05/2006 → 31/12/2006

Fuldskala demonstration af termoaktive konstruktioner : Fase 3: Demonstration, evaluering og formidling
Hummelshøj, R. M., Passov, F., Weitzmann, P. & Olesen, B. W.
01/03/2006 → 31/12/2008

Advanced storage concepts for solar and low energy buildings, IEA-SHC Task 32
Furbo, S., Andersen, E. & Schultz, J. M.
16/02/2006 → 31/12/2007

Innovationsnetværk vedrørende integrerede lavenergiløsninger på bygningsområdet
Svendsen, S., Tommerup, H. M., Aggerholm, S., Olesen, B. W. & Heiselberg, P.
01/01/2006 → 30/06/2010

Kvalitetssikring af solvarme
Furbo, S., Fan, J. & Schultz, J. M.
05/09/2005 → 30/06/2007

Energy Project Retrofit
Bernhoft, H., Svendsen, S. & Tommerup, H. M.
01/06/2005 → 01/11/2008

Udvikling af typehuse i lavenergiklasse 1
Rose, J. & Tommerup, H. M.
01/03/2005 → 01/06/2006

Undersøgelse af behovet for el til cirkulationspumpers i ét- og tofamilies-huse, nu og i fremtiden
Christensen, U., Svendsen, S. & Tommerup, H. M.
01/03/2005 → 31/03/2006
Energy Project Villa
Svendsen, S., Tommerup, H. M. & Beck Hansen, M.
15/08/2004 → 01/02/2005

Development of an Integrated Solar System for Buildings
Schultz, J. M. & Varming, N.
01/08/2004 → 31/07/2007

Whole Building Heat, Air and Moisture Response : IEA ECBCS Annex 41, Subtask 1 leadership
Rode, C., Peuhkuri, R. H. & Mortensen, L. H.
01/08/2004 → 31/12/2007

Reduktion af energiforbrug til udtørring af bygninger
Rode, C.
01/07/2004 → 30/06/2006

Moisture Buffering of Building Materials
Rode, C., Time, B., Ojanen, T. & Arvidsson, J.
01/04/2004 → 30/06/2005

Reflekterende undertage
Rode, C. & Holck, Ø.
31/01/2004 → 29/02/2004

Calculation of thermal properties of aluminium window and facade profiles
Svendsen, S. & Laustsen, J. B.
01/11/2003 → 01/11/2004

Udarbejdelse af pjece: Indeklima og tegl
Rode, C. & Begh, S.
01/11/2003 → 31/03/2004

Design af grønlandske referencevejrdataår
Kragh, J., Svendsen, S. & Karlsen, H. G.
01/10/2003 → 01/02/2004

Udvikling af energiøkonomisk ventilationsløsning med varmegenvinding til boliger
01/09/2003 → 31/12/2005

Brandprøvning af betoner i forbindelse med Malmö Citytunnel : Test for eksplosiv afskalning
Sørensen, L. S., Hertz, K. D. & Kristiansen, F. H.
18/08/2003 → 23/10/2003
Komfortforhold og lastudjævning ved energieffektiv køling med termoaktive konstruktioner - analyse og praktiske forsøg – ELFOR PSO 2003
Weitzmann, P., Hummelshøj, R. M., Jensen, T. & Passov, F.
01/08/2003 → 01/09/2005

Målinger af bruttoenergiforbrug i nybyggeri svarende til Bygningsreglement 2005
Svendsen, S., Tommerup, H. M., Tonn-Petersen, C., Barslev, Ø. & Lauritsen, R.
01/08/2003 → 01/09/2004

Udvikling af elbesparende reguleringsstrategier og optimering af ventilationsanlæg og varmepumper i svømmehaller
Jensen, M. L. & Rode, C.
01/08/2003 → 31/12/2005

Varmetekniske beregninger for ovenlys
Kragh, J. & Svendsen, S.
01/07/2003 → 01/10/2003

Bæredygtigt Arktisk byggeri i det 21. århundrede : Energirigtige vinduer til bæredygtigt byggeri i kolde klimaer
Svendsen, S., Laustsen, J. B., Tommerup, H. M. & Kragh, J.
01/06/2003 → 31/12/2006

Hygrothermal Performance of Whole Buildings
Rode, C., Peuhkuri, R. H. & Mortensen, L. H.
01/05/2003 → 01/05/2006

Varmetekniske beregninger
Laustsen, J. B.
01/05/2003 → 17/08/2005

Bæredygtigt arktisk byggeri i det 21. århundrede : Energirigtige vinduer
Svendsen, S.
01/02/2003 → 01/02/2006

Bæredygtigt arktisk byggeri i det 21. århundrede : Ventilationssystemer
Svendsen, S., Rose, J. & Kragh, J.
01/02/2003 → 01/02/2006

Cold Bridge Problem in Sandwich Panels, Clinic Buildings, Thule
Nielsen, H. J. & Rode, C.
01/02/2003 → 31/03/2003

Ventilation med varmegenvinding til arktisk klima
Svendsen, S. & Kragh, J.
01/02/2003 → 01/12/2004
Energimæssige beregninger af vinduesprofiler system V200 og V400
Svendsen, S., Kragh, J. & Laustsen, J. B.
06/01/2003 → 12/01/2003
Project

Produktudvikling af nye vinduer og glasfacader med integrerede funktioner
Kragh, J. & Svendsen, S.
03/01/2003 → 04/01/2003
Project

Anvisning: Beregning af varmeforbrug i Grønland
Kragh, J. & Svendsen, S.
01/01/2003 → 03/01/2003
Project

Moisture Buffering of Building Materials : Workshop
Rode, C.
01/01/2003 → 31/12/2003
Project

Beregning af U-værdier for bygningsdele til VIF's U-værdi tabel : U-værdi 2003
Rode, C., Rose, J., Weitzmann, P., Henriksen, T. & Petersen, M.
01/12/2002 → 30/10/2003
Project

Highly insulating and light transmitting aerogel glazing for super insulating windows
01/10/2002 → 01/12/2005
Project

Analyser til det nye grønlandske bygningsreglement
Svendsen, S. & Kragh, J.
01/09/2002 → 01/11/2002
Project

Evaluering af udviklingsprojekt
Rode, C.
01/08/2002 → 30/11/2002
Project

U-værditabel efter EU-standarder
Rode, C.
01/08/2002 → 30/09/2002
Project

Bestemmelse af de varmetekniske egenskaber af forsatsvinduer og gl. koblede vinduer – eksperimentelt og beregnet
Svendsen, S., Laustsen, J. B., Jensen, C. F. & Kampmann, T.
01/06/2002 → 01/11/2003
Project

Measurement and evaluation of energy consumption and indoor thermal comfort in Rockwool Interational A/S low energy office building "Building 2000"
Schultz, J. M. & Olsen, A. D.
01/01/2002 → 30/06/2005
New Window Framing Technologies for Aerogel and Other Highly Insulating Glazing
01/01/2002 → 31/03/2007

Pensionistordning Liste 1 §5 og §8 : Kontrol med energikonsulenters behandling af vinduessager.
Svendsen, S., Jensen, C. F., Kampmann, T. & Fox, S.
01/01/2002 → 01/12/2002

Praktisk U-værdi samt fastlæggelse af korrektionsfaktorer for isoleringsevne/U-værdi ved prak-tisk udførelse af isolering af bygningskonstruktioner med alternativ/økologisk isolering
Rode, C., Holck, O. & Olsen, L.
01/01/2002 → 30/06/2004

Translucent isolerende klimaskærm : Målinger og beregninger af et bygningselement med honeycomb.
Svendsen, S., Holck, O. & Kragh, J.
01/01/2002 → 01/07/2002

New liquid crystal smart window and its production process
01/12/2001 → 24/01/2005

WINDAT, Windows as Renewable Energy Sources for Europe – Window Energy Data Network
Svendsen, S., Laustsen, J. B. & Pedersen, F. Ø.
30/10/2001 → 31/05/2004

Marstal følgeprojekt til EU-projekt om udvidelse af solvarmecentralen i Marstal
Heller, A.
21/10/2001 → 31/12/2002

Stimulering af udviklingen af bedre nye vinduer
Svendsen, S., Laustsen, J. B. & Jensen, C. F.
08/10/2001 → 30/06/2003

Sekretariatsbistand, bygninger : Carsten Rode
Rode, C.
01/06/2001 → 31/12/2001

Solvarmeanlæg til Herlev Huse
Furbo, S.
01/06/2001 → 31/03/2002
Termoaktive konstruktioner til hybrid opvarmning og køling af kontorhuse
Hummelshøj, R. M., Weitzmann, P. & Jacobsen, T.
01/06/2001 → 01/03/2002
Project

Forsøgsbygninger med nye typer klimaskærmkonstruktioner
Svendsen, S.
01/03/2001 → 31/12/2003
Project

Translucent isolerende klimaskærm
Svendsen, S., Holck, O. & Graversen, N. J.
05/02/2001 → 05/03/2003
Project

Etablering af udstyr til karakterisering af solafskærsmingr
Svendsen, S. & Rosenfeld, J.
01/01/2001 → 25/02/2003
Project

IEA Task 26 Solar Combi Systems
Furbo, S.
01/01/2001 → 31/12/2002
Project

SolEnergiCentret
Furbo, S.
01/01/2001 → 31/12/2001
Project

Udvikling, optimering og projektering af nye typer klimaskærmkonstruktioner af betonelementer, deremonstrerer
opfyldelse af energikrav i BR2005
Tommerup, H. M., Svendsen, S. & Munch-Andersen, J.
01/01/2001 → 01/02/2004
Project

Fugtfordeling i absorberende isoleringsmateriale: Moisture distribution in absorbent insulation
Rode, C., Peuhkuri, R. H., Padfield, T., Hansen, K. K. & Mortensen, L. H.
01/12/2000 → 30/04/2003
Project

Generel understøttelse af virksomheders produktudvikling-FASE 2
31/10/2000 → 25/02/2003
Project

Klassifikation af ruder i energimæssig henseende – falsomhedsanalyse af metoden og tilføjelse af informationer om
metoden i kompendierne om ruder og vinduer energimæssige egenskaber. FASE 2.
Svendsen, S. & Laustsen, J. B.
31/10/2000 → 25/02/2003
Project

Udredning vedrørende energimærkning af forsatsvinduer, glasfacader og ovenlys
Svendsen, S., Jensen, C. F. & Kragh, J.
31/10/2000 → 25/02/2003
Project
Beregning af energibesparelse ved energirenovering af vinduer
Svendsen, S. & Laustsen, J. B.
10/10/2000 → 25/02/2003
Project

Undersøgelse af masseovnes termiske egenskaber
Heller, A.
29/05/2000 → 31/12/2001
Project

Assistanceordning vedrørende producenters energimærkning af ruder og vinduer
Svendsen, S., Jensen, C. F. & Laustsen, J. B.
28/05/2000 → 25/02/2003
Project

Fugtteknisk grundlag for fastsættelse af designværdier for varmeledningsevnen
Rode, C., Rudbeck, C. C. & Dufour, J.
09/05/2000 → 31/10/2001
Project

Solvarme i Grønland
Furbo, S.
13/04/2000 → 17/12/2001
Project

Klassifikation af ruder i energimæssig henseende – følsomhedsundersøgelse af metoden og tilføjelse af informationer om metoden i kompendierne om ruder og vinduers energimæssige egenskaber. FASE 1
Svendsen, S. & Laustsen, J. B.
10/03/2000 → 01/09/2000
Project

Generel understøttelse af virksomheders produktudvikling. FASE 1
Svendsen, S., Laustsen, J. B. & Noyé, P. A.
01/01/2000 → 31/12/2001
Project

Lågkonstruktioner for damvarmelagre - Fase IV
Heller, A.
01/01/2000 → 31/12/2002
Project

Termisk karakterisering af PV-vinduer
Jensen, S. Ø., Jacobsen, T. D. & Schultz, J. M.
01/01/2000 → 11/06/2003
Project

Solvarmeanlæg ved biomassefyrede fjernvarmecentraler
Heller, A.
21/12/1999 → 31/10/2001
Project

Bygningsintegreret varmelagring af solvarme i terrændæk
Weitzmann, P., Svendsen, S. & Holck, O.
01/12/1999 → 31/05/2001
Project
Måleprogram, jordslangelager i Marstal
Heller, A.
21/06/1999 → 31/10/2001
Project

Low-flow solvarme med intelligent soltank og termisk styret pumpe
Furbo, S.
03/05/1999 → 31/05/2001
Project

Optimering af klimaskærm samt varme- og ventilationsanlæg i et typehus mht. energiforbrug, indeklima og økonomi
Svendsen, S. & Rose, J.
01/02/1999 → 01/02/2001
Project

Helhedsvurdering af vinduer – mulige produktforbedringer inden for en tidshorisont på 5 år
Schultz, J. M., Kristiansen, F. H., Lorentzen, C. A., Brauer, H. & Nielsen, H.
15/01/1999 → 31/10/2002
Project

IEA Task 13, Advanced Solar Energy Dwellings : Danish participation in an international working group
Schultz, J. M., Thomsen, K. E. & Poel, B.
15/01/1999 → 31/07/2002
Project

Highly Insulating and Light Transmitting Aerogel glazing for Window (HILIT Aerogel Window)
01/11/1998 → 31/10/2001
Project

Ny vinduestype med smal ramme/karmkonstruktion og stort lys- og solindfald
Schultz, J. M., Svendsen, S., Hammer, C. & Knudsen, E. S.
01/02/1998 → 30/04/2002
Project

Activities:

Automation in Construction (Journal)
Nielsen, T. R. (Reviewer)
Nov 2017
Activity: Research › Peer review of manuscripts

International Journal of Heat and Mass Transfer (Journal)
Nielsen, T. R. (Reviewer)
Nov 2017
Activity: Research › Peer review of manuscripts

Chairman PhD Assessment Committee
Nielsen, T. R. (Internal examiner)
15 Nov 2017
Activity: Examinations and supervision › Internal examination
Energy and Buildings (Journal)
Nielsen, T. R. (Reviewer)
Oct 2017
Activity: Research › Peer review of manuscripts

Chairman PhD Assessment Committee
Nielsen, T. R. (Internal examiner)
24 Oct 2017
Activity: Examinations and supervision › Internal examination

Chairman PhD Assessment Committee
Nielsen, T. R. (Internal examiner)
25 Sep 2017
Activity: Examinations and supervision › Internal examination

Chairman PhD Assessment Committee
Nielsen, T. R. (Internal examiner)
29 Aug 2017
Activity: Examinations and supervision › Internal examination

Energy Efficiency (Journal)
Nielsen, T. R. (Reviewer)
Jul 2017
Activity: Research › Peer review of manuscripts

Chairman PhD Assessment Committee
Nielsen, T. R. (Internal examiner)
27 Jul 2017
Activity: Examinations and supervision › Internal examination

Energy Efficiency (Journal)
Nielsen, T. R. (Reviewer)
Mar 2017
Activity: Research › Peer review of manuscripts

Vidensby Netværk for Klima og grøn teknologi
Heller, A. (Participant)
7 Jan 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Inno-SE Integrated Energy Systems (External organisation)
Heller, A. (Chairman)
2016 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Sustain-ATV Conference 2016
Heller, A. (Participant)
30 Nov 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Chinese Academy of Sciences
Englmair, G. (Visiting researcher)
21 Aug 2016 → 22 Jan 2017
Activity: Visiting an external institution › Visiting another research institution
Grønne forretningsmodeller
Hviid, C. A. (Participant)
29 Jun 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Urban Living Labs
Heller, A. (Participant)
25 Feb 2016 → 26 Feb 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Nordic Research Council (External organisation)
Heller, A. (Participant)
2015 → …
Activity: Membership › Membership in review committee

International Conference on Solar Heating and Cooling for Buildings and Industry 2015
Englmair, G. (Participant)
2 Dec 2015 → 4 Dec 2015
Activity: Attending an event › Participating in or organising a conference

Smart Buildings: Combining energy efficiency, flexibility and comfort
Heller, A. (Invited speaker)
26 Nov 2015
Activity: Talks and presentations › Conference presentations

Triple Helix Cooperation for Scalability - Presentation
Heller, A. (Invited speaker)
9 Nov 2015
Activity: Talks and presentations › Conference presentations

IBPSA-Nordic technical event BuildSim-Nordic 2015
Luc, K. M. (Speaker)
2 Nov 2015 → 3 Nov 2015
Activity: Talks and presentations › Conference presentations

Forskningsbibliotekernes Lederkollegiets Seminar
Heller, A. (Participant)
28 Oct 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

EnergyLab Nordhavn: Sustainability through Certification
Heller, A. (Invited speaker)
20 Oct 2015
Activity: Talks and presentations › Conference presentations

Smart Cities Live
Heller, A. (Speaker)
Activity: Talks and presentations › Conference presentations

"Sustainability by certification" - Experiences on the DGNB certification of the Nordhavn district in Copenhagen
Heller, A. (Invited speaker)
20 Oct 2015
Activity: Talks and presentations › Conference presentations
Den digitale by
Heller, A. (Lecturer)
6 Oct 2015
Activity: Talks and presentations › Conference presentations

PhD evaluation committee - Rimante Cox (External organisation)
Heller, A. (Chairman)
Sep 2015 → Nov 2015
Activity: Membership › Membership in review committee

EU-Israel Innovation (External organisation)
Heller, A. (Participant)
10 Sep 2015
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

EU-Israel Innovation Seminar
Heller, A. (Invited speaker)
10 Sep 2015
Activity: Talks and presentations › Conference presentations

Nordic Climate KIC - CITIES workshop
Heller, A. (Organizer)
1 Sep 2015
Activity: Attending an event › Participating in or organising a conference

How does the research centre CITIES contribute to Innovation
Heller, A. (Invited speaker)
22 May 2015
Activity: Talks and presentations › Conference presentations

Det intelligente energisystem
Heller, A. (Participant)
26 Mar 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

From Grid to Society: Some thoughts about Smart Cities
Heller, A. (Lecturer)
10 Mar 2015
Activity: Talks and presentations › Conference presentations

Energyforum Denmark
Heller, A. (Invited speaker)
4 Mar 2015
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Smart City Think Tank (External organisation)
Heller, A. (Participant)
1 Mar 2015 → 31 Dec 2015
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

EuroTech Winter School
Heller, A. (Participant)
5 Feb 2015 → 9 Feb 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
Future Digital Cities - for and with citizens (External organisation)
Heller, A. (Participant)
1 Feb 2015 → 31 Dec 2031
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

3rd International Workshop on Design in Civil and Environmental Engineering
Negendahl, K. (Speaker)
2014
Activity: Talks and presentations › Conference presentations

Energi og Parametri
Negendahl, K. (Organizer)
2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Inno-SE Innovationsnæværk - Evaluator af Innovationsprojekter (External organisation)
Heller, A. (Participant)
2014 → …
Activity: Membership › Membership in review committee

International Conference on Education and research in Computer Aided Architectural Design in Europe
Negendahl, K. (Speaker)
2014
Activity: Talks and presentations › Conference presentations

International Energy Systems Integration European Workshop 2014
Negendahl, K. (Speaker)
2014
Activity: Talks and presentations › Conference presentations

DTU Sustain Conference 2014
Berg, J. B. (Participant)
17 Dec 2014
Activity: Attending an event › Participating in or organising a conference

Big Data as a tool for controlling the cities energy: Data aspects and data management
Heller, A. (Invited speaker)
27 Nov 2014
Activity: Talks and presentations › Conference presentations

Idea catalogue by Vidensby Lyngby to Workshop Water DTU
Heller, A. (Invited speaker)
29 Oct 2014
Activity: Talks and presentations › Conference presentations

International Conference on Solar Heating and Cooling for Buildings and Industry
Berg, J. B. (Participant)
Activity: Attending an event › Participating in or organising a conference

International Conference on Solar Heating and Cooling for Buildings and Industry
Fan, J. (Speaker)
Activity: Talks and presentations › Conference presentations
International Conference on Solar Heating and Cooling for Buildings and Industry  
Dannemand, M. (Speaker)  
Activity: Talks and presentations › Conference presentations

IEA Task 42 / Annex 29, 12th expert meeting  
Dannemand, M. (Speaker)  
8 Oct 2014 → 10 Oct 2014  
Activity: Talks and presentations › Conference presentations

Reviewer of grant application for Research Council of Norway (External organisation)  
Fan, J. (Member)  
1 Oct 2014 → 31 Oct 2014  
Activity: Membership › Membership in review committee

EuroSun 2014  
Engelmair, G. (Participant)  
16 Sep 2014 → 19 Sep 2014  
Activity: Attending an event › Participating in or organising a conference

3rd International Workshop on Design in Civil and Environmental Engineering  
Heller, A. (Participant)  
22 Aug 2014 → 23 Aug 2014  
Activity: Attending an event › Participating in or organising a conference

Smart City Network Denmark (External organisation)  
Heller, A. (Participant)  
1 Aug 2014 → …  
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

SDC Solar Energy Week  
Fan, J. (Organizer)  
1 Jul 2014 → 5 Jul 2014  
Activity: Attending an event › Participating in or organising a conference

Urbanisation and infrastructure in the Arctic – Challenges to sustainability  
Heller, A. (Participant)  
7 May 2014 → 9 May 2014  
Activity: Attending an event › Participating in or organising a conference

IEA Task 42 / Annex 29, 11th expert meeting  
Dannemand, M. (Speaker)  
28 Apr 2014 → 30 Apr 2014  
Activity: Talks and presentations › Conference presentations

Introduction of flexible monitoring equipment into the Greenlandic building sector  
Heller, A. (Lecturer)  
8 Apr 2014  
Activity: Talks and presentations › Conference presentations

European Workshop 2014 International Institute for Energy System Integration  
Heller, A. (Participant)  
27 Mar 2014 → 28 Mar 2014  
Activity: Attending an event › Participating in or organising a conference
**Principle coordinator on Solar Energy in the SDC Center, Denmark (External organisation)**
Fan, J. (Member)
1 Dec 2013 → ...
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**ISES Solar World Congress**
Dannemand, M. (Chairman)
6 Nov 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**ISES Solar World Congress**
Dannemand, M. (Speaker)
5 Nov 2013
Activity: Talks and presentations › Conference presentations

**IEA Task 42 / Annex 29, 10th experts meeting**
Dannemand, M. (Speaker)
2 Oct 2013 → 4 Oct 2013
Activity: Talks and presentations › Conference presentations

**DTU International Energy Conference 2013**
Dannemand, M. (Speaker)
11 Sep 2013
Activity: Talks and presentations › Conference presentations

**Compact seasonal heat storage using sodium acetate**
Dannemand, M. (Invited speaker)
18 Jun 2013
Activity: Talks and presentations › Conference presentations

**IEA Task 42 / Annex 29 9th experts meeting**
Dannemand, M. (Speaker)
15 Apr 2013 → 17 Apr 2013
Activity: Talks and presentations › Conference presentations

**BIPS Conference 2012**
Negendahl, K. (Speaker)
2012
Activity: Talks and presentations › Conference presentations

**Smartgeometry**
Negendahl, K. (Participant)
2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Structural Frameworks for Open, Digital Research**
Heller, A. (Organizer)
11 Jun 2012 → 13 Jun 2012
Activity: Attending an event › Participating in or organising a conference

**Research activities with DTU’s Department of Civil Engineering of relevance for CHAMPS Development and Application**
Rode, C. (Speaker)
1 Jun 2012 → 3 Jun 2012
Activity: Talks and presentations › Conference presentations
Building and Environment (Journal)
Andersen, E. (Reviewer)
30 Nov 2011 → 30 Dec 2011
Activity: Research › Peer review of manuscripts

Examiner for Katrin Zass's Ph.D. defence
Furbo, S. (External examiner)
11 Nov 2011
Activity: Examinations and supervision › External examination

Visit of Chinese researchers at Risø: Solar heating research at the technical University of Denmark
Furbo, S. (Speaker)
9 May 2011
Activity: Other

InnoByg forårskonference 2011: Solfangere integrerer i taget. Udvikling af tagintegreret solfanger i samarbejde med Komproment
Furbo, S. (Speaker)
23 Mar 2011
Activity: Talks and presentations › Conference presentations

ISES Solar World Congress 2011 (Journal)
Andersen, E. (Reviewer)
22 Mar 2011 → 20 Apr 2011
Activity: Research › Peer review of manuscripts

IEA Task 45 meeting: Collectors and collector loop
Furbo, S. (Other)
5 Mar 2011
Activity: Other

IDA meeting: Solvarme og solvarmeforskning
Furbo, S. (Speaker)
10 Feb 2011
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Informationsmøde i Dansk Solvarme Forening: Faktiske energibesparelser
Furbo, S. (Speaker)
25 Jan 2011
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

5-års seminar om Lavenerghuset i Sisimiut
Rode, C. (Organizer)
2 Jun 2010
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

5-års seminar om Lavenerghuset i Sisimiut
Furbo, S. (Speaker)
2 Jun 2010
Activity: Other

DataCite (External organisation)
Heller, A. (Member)
2009 → 2011
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar
LavEByg Konference: Konference om energirenovering af bygninger til lavenerginiveau
Scheffler, G. A. (Speaker)
22 Apr 2009
Activity: Talks and presentations › Conference presentations

Syns- og skønserklæring, B-1906-07: Vedr. varmtvandsforsyning til ejerlejlighed - Ejerforeningen Løvparken ff od Ulla og Lasse Sørensen
Andersen, E. (Other)
1 Jan 2009 → …
Activity: Other

Solar/electric heating systems for the future energy system
Furbo, S. (Lecturer)
16 Dec 2008
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Prøvning og levetid for solfangere
Furbo, S. (Participant)
3 Dec 2008
Activity: Other

Hygrothermal material modelling and its validation
Scheffler, G. A. (Speaker)
23 Oct 2008
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Thermal solar energy activities
Furbo, S. (Lecturer)
20 Aug 2008
Activity: Other

Advanced solar heating systems. Solar domestic hot water systems. Solar combi systems. Solar heating plants
Furbo, S. (Speaker)
21 May 2008 → 23 May 2008
Activity: Talks and presentations › Conference presentations

Solvarmeanlægs energibesparelser
Furbo, S. (Participant)
17 May 2008
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Ph.D. course Thermal Stratification in Solar Storage Tanks
Furbo, S. (Speaker)
3 Mar 2008
Activity: Other

Assistance til udvikling af nye/bedre anlæg
Furbo, S. (Participant)
22 Jan 2008
Activity: Other

Eksperimentelle undersøgelser af små low flow solvarmeanlæg til brugsvandsopvarmning baseret på kappebeholdere
Furbo, S. (Speaker)
22 Jan 2008
Activity: Other
Fordele ved ny Grundfos cirkulationspumpe, type SOLAR 15-65
Furbo, S. (Speaker)
22 Jan 2008
Activity: Other

Press clippings:

Hvad sker der når køleskabet går online?
Alfred Heller
04/04/2017
1 media contribution
Press / Media

Langzeitspeicherung von Wärme mittels Phasenwechselmaterialien
Gerald Englmair
01/01/2016
1 media contribution
Press / Media

Et kar med salt er fremtidens oliefyr
Jakob Brinkø Berg
05/01/2015
1 media contribution
Press / Media

Vinder af Video Research Competition 2014: Storing solar energy using sodium acetate trihydrate and graphite
Jakob Brinkø Berg
29/10/2014
1 media contribution
Press / Media

Storing solar energy using sodium acetate trihydrate and graphite
Jakob Brinkø Berg
09/10/2014
1 media contribution
Press / Media

Parametrisk designproces sikrer højere kvalitet i byggeriet
Kristoffer Negendahl
01/01/2014
1 media contribution
Press / Media

Selvstyrels boliger i miserabel stand
Carsten Rode
06/09/2012
1 media contribution
Press / Media

Smartgeometry
Kristoffer Negendahl
01/01/2012
1 media contribution
Press / Media

Solvarme skal hjælpe mod høje varmepriser: Jyllands-Posten
Simon Furbo
15/10/2011
1 media contribution
Press / Media

**Nu tjener husejere på solenergi: Politiken**
Simon Furbo
13/08/2011
1 media contribution
Press / Media

**Bedre økonomi i private solfangere: Politiken**
Simon Furbo
24/01/2011
1 media contribution
Press / Media

**Solar energy**
Simon Furbo
27/08/2008
1 media contribution
Press / Media