

Svend H Svendsen

List of Publications by Year in descending order

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93
papers

4,797
citations

136740

32
h-index

98622

67
g-index

95
all docs

95
docs citations

95
times ranked

3103
citing authors

#	ARTICLE	IF	CITATIONS
1	4th Generation District Heating (4GDH). Energy, 2014, 68, 1-11.	4.5	1,548
2	The status of 4th generation district heating: Research and results. Energy, 2018, 164, 147-159.	4.5	395
3	Quantifying the potential of automated dynamic solar shading in office buildings through integrated simulations of energy and daylight. Solar Energy, 2011, 85, 757-768.	2.9	201
4	Energy and exergy analysis of low temperature district heating network. Energy, 2012, 45, 237-246.	4.5	132
5	Renewable-based low-temperature district heating for existing buildings in various stages of refurbishment. Energy, 2013, 62, 311-319.	4.5	129
6	Impact of facade window design on energy, daylighting and thermal comfort in nearly zero-energy houses. Energy and Buildings, 2015, 102, 149-156.	3.1	117
7	Method and simulation program informed decisions in the early stages of building design. Energy and Buildings, 2010, 42, 1113-1119.	3.1	103
8	Low Temperature District Heating for Future Energy Systems. Energy Procedia, 2017, 116, 26-38.	1.8	92
9	Business models for full service energy renovation of single-family houses in Nordic countries. Applied Energy, 2013, 112, 1558-1565.	5.1	66
10	Simple tool to evaluate the impact of daylight on building energy consumption. Solar Energy, 2008, 82, 787-798.	2.9	64
11	Modelling floor heating systems using a validated two-dimensional ground-coupled numerical model. Building and Environment, 2005, 40, 153-163.	3.0	63
12	Energy, economy and exergy evaluations of the solutions for supplying domestic hot water from low-temperature district heating in Denmark. Energy Conversion and Management, 2016, 122, 142-152.	4.4	61
13	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. Energy, 2016, 110, 75-84.	4.5	56
14	Internal insulation applied in heritage multi-storey buildings with wooden beams embedded in solid masonry brick facades. Building and Environment, 2016, 99, 59-72.	3.0	56
15	Space heating with ultra-low-temperature district heating – a case study of four single-family houses from the 1980s. Energy Procedia, 2017, 116, 226-235.	1.8	54
16	Evaluations of different domestic hot water preparing methods with ultra-low-temperature district heating. Energy, 2016, 109, 248-259.	4.5	53
17	Method to investigate and plan the application of low temperature district heating to existing hydraulic radiator systems in existing buildings. Energy, 2016, 113, 413-421.	4.5	52
18	Solar collector with monolithic silica aerogel. Journal of Non-Crystalline Solids, 1992, 145, 240-243.	1.5	50

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19	Initiatives for the energy renovation of single-family houses in Denmark evaluated on the basis of barriers and motivators. <i>Energy and Buildings</i> , 2018, 167, 347-358.	3.1	49
20	Ultra-low temperature district heating system with central heat pump and local boosters for low-heat-density area: Analyses on a real case in Denmark. <i>Energy</i> , 2018, 159, 243-251.	4.5	46
21	Method for component-based economical optimisation for use in design of new low-energy buildings. <i>Renewable Energy</i> , 2012, 38, 173-180.	4.3	45
22	Decentralized substations for low-temperature district heating with no Legionella risk, and low return temperatures. <i>Energy</i> , 2016, 110, 65-74.	4.5	45
23	Experimental study of perforated suspended ceilings as diffuse ventilation air inlets. <i>Energy and Buildings</i> , 2013, 56, 160-168.	3.1	42
24	District Heating Network Design and Configuration Optimization with Genetic Algorithm. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2013, 1, 291-303.	0.9	42
25	Theoretical overview of heating power and necessary heating supply temperatures in typical Danish single-family houses from the 1900s. <i>Energy and Buildings</i> , 2016, 126, 375-383.	3.1	42
26	Numerical modelling and experimental measurements for a low-temperature district heating substation for instantaneous preparation of DHW with respect to service pipes. <i>Energy</i> , 2012, 41, 392-400.	4.5	41
27	Investigation of interior post-insulated masonry walls with wooden beam ends. <i>Journal of Building Physics</i> , 2013, 36, 265-293.	1.2	39
28	The effect of a rotary heat exchanger in room-based ventilation on indoor humidity in existing apartments in temperate climates. <i>Energy and Buildings</i> , 2016, 116, 349-361.	3.1	38
29	Low-temperature operation of heating systems to enable 4th generation district heating: A review. <i>Energy</i> , 2022, 248, 123529.	4.5	37
30	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. <i>Energy</i> , 2016, 107, 431-442.	4.5	36
31	The effect of dynamic solar shading on energy, daylighting and thermal comfort in a nearly zero-energy loft room in Rome and Copenhagen. <i>Energy and Buildings</i> , 2017, 135, 302-311.	3.1	36
32	Costs and benefits of preparing existing Danish buildings for low-temperature district heating. <i>Energy</i> , 2019, 176, 718-727.	4.5	36
33	Development of a slim window frame made of glass fibre reinforced polyester. <i>Energy and Buildings</i> , 2010, 42, 1918-1925.	3.1	34
34	A comparative study on substation types and network layouts in connection with low-energy district heating systems. <i>Energy Conversion and Management</i> , 2012, 64, 551-561.	4.4	33
35	Development of a plastic rotary heat exchanger for room-based ventilation in existing apartments. <i>Energy and Buildings</i> , 2015, 107, 1-10.	3.1	33
36	Method for simulating predictive control of building systems operation in the early stages of building design. <i>Applied Energy</i> , 2011, 88, 4597-4606.	5.1	32

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37	Experience from a practical test of low-temperature district heating for space heating in five Danish single-family houses from the 1930s. <i>Energy</i> , 2018, 159, 569-578.	4.5	32
38	Study of thermal performance of capillary micro tubes integrated into the building sandwich element made of high performance concrete. <i>Applied Thermal Engineering</i> , 2013, 52, 576-584.	3.0	31
39	An hourly based performance comparison of an integrated micro-structural perforated shading screen with standard shading systems. <i>Energy and Buildings</i> , 2012, 50, 166-176.	3.1	26
40	Method for a component-based economic optimisation in design of whole building renovation versus demolishing and rebuilding. <i>Energy Policy</i> , 2014, 65, 305-314.	4.2	26
41	Achieving low return temperature for domestic hot water preparation by ultra-low-temperature district heating. <i>Energy Procedia</i> , 2017, 116, 426-437.	1.8	26
42	Comparison between ASHRAE and ISO thermal transmittance calculation methods. <i>Energy and Buildings</i> , 2007, 39, 374-384.	3.1	25
43	Experimental analysis of energy performance of a ventilated window for heat recovery under controlled conditions. <i>Energy and Buildings</i> , 2011, 43, 3200-3207.	3.1	25
44	Analytical and experimental analysis of a low-pressure heat exchanger suitable for passive ventilation. <i>Energy and Buildings</i> , 2011, 43, 275-284.	3.1	25
45	Improving thermal performance of an existing UK district heat network: A case for temperature optimization. <i>Energy and Buildings</i> , 2018, 158, 1576-1585.	3.1	25
46	Full scale measurements and CFD investigations of a wall radiant cooling system integrated in thin concrete walls. <i>Energy and Buildings</i> , 2017, 139, 242-253.	3.1	24
47	Improved Control of Radiator Heating Systems with Thermostatic Radiator Valves without Pre-Setting Function. <i>Energies</i> , 2019, 12, 3215.	1.6	24
48	WinSim: A simple simulation program for evaluating the influence of windows on heating demand and risk of overheating. <i>Solar Energy</i> , 1998, 63, 251-258.	2.9	23
49	Changes in heat load profile of typical Danish multi-storey buildings when energy-renovated and supplied with low-temperature district heating. <i>International Journal of Sustainable Energy</i> , 2015, 34, 232-247.	1.3	23
50	Dynamic behavior of radiant cooling system based on capillary tubes in walls made of high performance concrete. <i>Energy and Buildings</i> , 2015, 108, 92-100.	3.1	22
51	Alternative solutions for inhibiting Legionella in domestic hot water systems based on low-temperature district heating. <i>Building Services Engineering Research and Technology</i> , 2016, 37, 468-478.	0.9	22
52	Evaluation of the renovation of a Danish single-family house based on measurements. <i>Energy and Buildings</i> , 2017, 150, 189-199.	3.1	22
53	Case study of low-temperature heating in an existing single-family house – A test of methods for simulation of heating system temperatures. <i>Energy and Buildings</i> , 2016, 126, 535-544.	3.1	21
54	Energy labelling of glazings and windows in Denmark: calculated and measured values. <i>Solar Energy</i> , 2002, 73, 23-31.	2.9	19

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55	Energy-efficient and cost-effective in-house substations bypass for improving thermal and DHW (domestic hot water) comfort in bathrooms in low-energy buildings supplied by low-temperature district heating. <i>Energy</i> , 2014, 67, 256-267.	4.5	19
56	Quasi-steady-state model of a counter-flow air-to-air heat-exchanger with phase change. <i>Applied Energy</i> , 2008, 85, 312-325.	5.1	18
57	Roadmap for improving roof and facade windows in nearly zero-energy houses in Europe. <i>Energy and Buildings</i> , 2016, 116, 602-613.	3.1	17
58	Improving the district heating operation by innovative layout and control strategy of the hot water storage tank. <i>Energy and Buildings</i> , 2020, 224, 110273.	3.1	17
59	Effects of boosting the supply temperature on pipe dimensions of low-energy district heating networks: A case study in Gladsaxe, Denmark. <i>Energy and Buildings</i> , 2015, 88, 324-334.	3.1	16
60	Modeling Transient Heat Transfer in Small-Size Twin Pipes for End-User Connections to Low-Energy District Heating Networks. <i>Heat Transfer Engineering</i> , 2013, 34, 372-384.	1.2	15
61	Method for achieving hydraulic balance in typical Chinese building heating systems by managing differential pressure and flow. <i>Building Simulation</i> , 2017, 10, 51-63.	3.0	15
62	Experimental Investigation of the Effect of Natural Convection on Heat Transfer in Mineral Wool. <i>Journal of Thermal Envelope and Building Science</i> , 2002, 26, 153-164.	0.5	14
63	Collaboration Opportunities in Advanced Housing Renovation. <i>Energy Procedia</i> , 2012, 30, 1380-1389.	1.8	14
64	Multi-mode control method for the existing domestic hot water storage tanks with district heating supply. <i>Energy</i> , 2020, 191, 116517.	4.5	14
65	Illuminance Level in the Urban Fabric and in the Room. <i>Indoor and Built Environment</i> , 2011, 20, 456-463.	1.5	13
66	Modern insulation requirements change the rules of architectural design in low-energy homes. <i>Renewable Energy</i> , 2014, 72, 301-310.	4.3	13
67	Technical, economic and environmental investigation of using district heating to prepare domestic hot water in Chinese multi-storey buildings. <i>Energy</i> , 2016, 116, 281-292.	4.5	13
68	Using a One-Stop-Shop Concept to Guide Decisions When Single-Family Houses Are Renovated. <i>Journal of Architectural Engineering</i> , 2017, 23, .	0.8	13
69	Overview of Solutions for the Low-Temperature Operation of Domestic Hot-Water Systems with a Circulation Loop. <i>Energies</i> , 2021, 14, 3350.	1.6	12
70	Strategy for low-temperature operation of radiator systems using data from existing digital heat cost allocators. <i>Energy</i> , 2021, 231, 120928.	4.5	12
71	Are typical radiators over-dimensioned? An analysis of radiator dimensions in 1645 Danish houses. <i>Energy and Buildings</i> , 2018, 178, 206-215.	3.1	11
72	Modelling and multi-scenario analysis for electric heat tracing system combined with low temperature district heating for domestic hot water supply. <i>Building Simulation</i> , 2016, 9, 141-151.	3.0	10

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73	Energy and cost savings with continuous low temperature heating versus intermittent heating of an office building with district heating. <i>Energy</i> , 2022, 252, 124071.	4.5	10
74	Performance of a daylight-redirecting glass-shading system. <i>Energy and Buildings</i> , 2013, 64, 309-316.	3.1	9
75	Test and evaluation of a method to identify heating system malfunctions by using information from electronic heat cost allocators. <i>Energy and Buildings</i> , 2019, 184, 152-162.	3.1	9
76	Double Loop Network for Combined Heating and Cooling in Low Heat Density Areas. <i>Energies</i> , 2020, 13, 6091.	1.6	9
77	New Low-Temperature Central Heating System Integrated with Industrial Exhausted Heat Using Distributed Electric Compression Heat Pumps for Higher Energy Efficiency. <i>Energies</i> , 2020, 13, 6582.	1.6	9
78	What does a well-functioning heating system look like? Investigation of ten Danish buildings that utilize district heating efficiently. <i>Energy</i> , 2021, 227, 120250.	4.5	9
79	Solar collector design with respect to moisture problems. <i>Solar Energy</i> , 2003, 75, 269-276.	2.9	8
80	Optimization of China's Centralized Domestic Hot Water System by Applying Danish Elements. <i>Energy Procedia</i> , 2014, 61, 2833-2840.	1.8	6
81	Feasibility of a booster for DHW circulation in apartment buildings. <i>Energy Reports</i> , 2021, 7, 311-318.	2.5	5
82	A Static Pressure Reset Control System with a New Type of Flow Damper for Use in Low Pressure Ventilation Systems. <i>International Journal of Ventilation</i> , 2012, 11, 235-246.	0.2	4
83	The Exergetic, Environmental and Economic Effect of the Hydrostatic Design Static Pressure Level on the Pipe Dimensions of Low-Energy District Heating Networks. <i>Challenges</i> , 2013, 4, 1-16.	0.9	4
84	Low return temperature from domestic hot-water system based on instantaneous heat exchanger with chemical-based disinfection solution. <i>Energy</i> , 2021, 215, 119211.	4.5	4
85	Development and Test of a Novel Electronic Radiator Thermostat with a Return Temperature Limiting Function. <i>Energies</i> , 2022, 15, 367.	1.6	4
86	Implementation of a strategy for low-temperature operation of radiator systems using data from existing digital heat cost allocators. <i>Energy</i> , 2022, 251, 123844.	4.5	4
87	Technical Comparison of Domestic Hot Water System Which Used in China and Denmark. <i>Energy Procedia</i> , 2014, 61, 2509-2513.	1.8	3
88	Determining the Optimal Capacities of Renewable-Energy-Based Energy Conversion Systems for Meeting the Demands of Low-Energy District Heating, Electricity, and District Cooling: Case Studies in Copenhagen and Toronto. , 2015, , 777-830.		3
89	The cost efficiency of improved roof windows in two well-lit nearly zero-energy houses in Copenhagen. <i>Energy and Buildings</i> , 2017, 140, 399-417.	3.1	2
90	Thermal Performance of Capillary Micro Tubes Integrated into the Sandwich Element Made of Concrete. <i>Advanced Materials Research</i> , 0, 649, 133-136.	0.3	0

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91	Regional Energy Planning Tool for Renewable Integrated Low-Energy District Heating Systems: Environmental Assessment. , 2013, , 859-878.		0
92	A novel concept for energy-efficient floor heating systems with minimal hot water return temperatures. Journal of Physics: Conference Series, 2021, 2069, 012106.	0.3	0
93	On the influence of decommissioning an area thermal substation in a district heating system on heat consumption and costs in buildings – Long term field research. Sustainable Energy Technologies and Assessments, 2022, 50, 101870.	1.7	0