

Svend H Svendsen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

3,593
citations

28
h-index

58
g-index

95
ext. papers

4,198
ext. citations

6
avg, IF

5.94
L-index

#	Paper	IF	Citations
93	Development and Test of a Novel Electronic Radiator Thermostat with a Return Temperature Limiting Function. <i>Energies</i> , 2022 , 15, 367	3.1	2
92	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. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 50, 101870	4.7	
91	Low-temperature operation of heating systems to enable 4th generation district heating: A review. <i>Energy</i> , 2022 , 248, 123529	7.9	3
90	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	7.9	0
89	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	7.9	1
88	A novel concept for energy-efficient floor heating systems with minimal hot water return temperatures. <i>Journal of Physics: Conference Series</i> , 2021 , 2069, 012106	0.3	
87	Feasibility of a booster for DHW circulation in apartment buildings. <i>Energy Reports</i> , 2021 , 7, 311-318	4.6	0
86	Overview of Solutions for the Low-Temperature Operation of Domestic Hot-Water Systems with a Circulation Loop. <i>Energies</i> , 2021 , 14, 3350	3.1	6
85	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	7.9	5
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	7.9	4
83	Strategy for low-temperature operation of radiator systems using data from existing digital heat cost allocators. <i>Energy</i> , 2021 , 231, 120928	7.9	4
82	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	3.1	5
81	Multi-mode control method for the existing domestic hot water storage tanks with district heating supply. <i>Energy</i> , 2020 , 191, 116517	7.9	10
80	Double Loop Network for Combined Heating and Cooling in Low Heat Density Areas. <i>Energies</i> , 2020 , 13, 6091	3.1	3
79	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	7	8
78	Improved Control of Radiator Heating Systems with Thermostatic Radiator Valves without Pre-Setting Function. <i>Energies</i> , 2019 , 12, 3215	3.1	12
77	Costs and benefits of preparing existing Danish buildings for low-temperature district heating. <i>Energy</i> , 2019 , 176, 718-727	7.9	25

76	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	7	8
75	Improving thermal performance of an existing UK district heat network: A case for temperature optimization. <i>Energy and Buildings</i> , 2018 , 158, 1576-1585	7	19
74	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	7	34
73	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	7.9	27
72	The status of 4th generation district heating: Research and results. <i>Energy</i> , 2018 , 164, 147-159	7.9	244
71	Are typical radiators over-dimensioned? An analysis of radiator dimensions in 1645 Danish houses. <i>Energy and Buildings</i> , 2018 , 178, 206-215	7	7
70	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	7.9	22
69	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	7	16
68	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	7	2
67	Evaluation of the renovation of a Danish single-family house based on measurements. <i>Energy and Buildings</i> , 2017 , 150, 189-199	7	17
66	Using a One-Stop-Shop Concept to Guide Decisions When Single-Family Houses Are Renovated. <i>Journal of Architectural Engineering</i> , 2017 , 23, 05017001	1.5	10
65	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	7	24
64	Achieving low return temperature for domestic hot water preparation by ultra-low-temperature district heating. <i>Energy Procedia</i> , 2017 , 116, 426-437	2.3	22
63	Low Temperature District Heating for Future Energy Systems. <i>Energy Procedia</i> , 2017 , 116, 26-38	2.3	63
62	Space heating with ultra-low-temperature district heating – a case study of four single-family houses from the 1980s. <i>Energy Procedia</i> , 2017 , 116, 226-235	2.3	35
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	3.9	10
60	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	2.3	18
59	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	7	33

58	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	7	17
57	Evaluations of different domestic hot water preparing methods with ultra-low-temperature district heating. <i>Energy</i> , 2016 , 109, 248-259	7.9	45
56	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	3.9	6
55	Internal insulation applied in heritage multi-storey buildings with wooden beams embedded in solid masonry brick façades. <i>Building and Environment</i> , 2016 , 99, 59-72	6.5	41
54	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	7	27
53	Decentralized substations for low-temperature district heating with no Legionella risk, and low return temperatures. <i>Energy</i> , 2016 , 110, 65-74	7.9	33
52	Roadmap for improving roof and façade windows in nearly zero-energy houses in Europe. <i>Energy and Buildings</i> , 2016 , 116, 602-613	7	15
51	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	7.9	24
50	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. <i>Energy</i> , 2016 , 110, 75-84	7.9	44
49	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	7.9	10
48	Energy, economy and exergy evaluations of the solutions for supplying domestic hot water from low-temperature district heating in Denmark. <i>Energy Conversion and Management</i> , 2016 , 122, 142-152	10.6	45
47	Method to investigate and plan the application of low temperature district heating to existing hydraulic radiator systems in existing buildings. <i>Energy</i> , 2016 , 113, 413-421	7.9	40
46	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	7	14
45	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	2.7	18
44	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	7	16
43	Development of a plastic rotary heat exchanger for room-based ventilation in existing apartments. <i>Energy and Buildings</i> , 2015 , 107, 1-10	7	26
42	Impact of façade window design on energy, daylighting and thermal comfort in nearly zero-energy houses. <i>Energy and Buildings</i> , 2015 , 102, 149-156	7	90
41	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		1

40	Modern insulation requirements change the rules of architectural design in low-energy homes. <i>Renewable Energy</i> , 2014 , 72, 301-310	8.1	12
39	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	7.9	16
38	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	7.2	22
37	Technical Comparison of Domestic Hot Water System Which Used in China and Denmark. <i>Energy Procedia</i> , 2014 , 61, 2509-2513	2.3	2
36	Optimization of China's Centralized Domestic Hot Water System by Applying Danish Elements. <i>Energy Procedia</i> , 2014 , 61, 2833-2840	2.3	5
35	4th Generation District Heating (4GDH): Integrating smart thermal grids into future sustainable energy systems. <i>Energy</i> , 2014 , 68, 1-11	7.9	1182
34	Performance of a daylight-redirecting glass-shading system. <i>Energy and Buildings</i> , 2013 , 64, 309-316	7	8
33	Renewable-based low-temperature district heating for existing buildings in various stages of refurbishment. <i>Energy</i> , 2013 , 62, 311-319	7.9	104
32	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	1.7	11
31	Business models for full service energy renovation of single-family houses in Nordic countries. <i>Applied Energy</i> , 2013 , 112, 1558-1565	10.7	56
30	Experimental study of perforated suspended ceilings as diffuse ventilation air inlets. <i>Energy and Buildings</i> , 2013 , 56, 160-168	7	36
29	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	5.8	24
28	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	3.4	4
27	Investigation of interior post-insulated masonry walls with wooden beam ends. <i>Journal of Building Physics</i> , 2013 , 36, 265-293	2.6	34
26	Thermal Performance of Capillary Micro Tubes Integrated into the Sandwich Element Made of Concrete. <i>Advanced Materials Research</i> , 2013 , 649, 133-136	0.5	
25	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	1.9	25
24	Regional Energy Planning Tool for Renewable Integrated Low-Energy District Heating Systems: Environmental Assessment 2013 , 859-878		
23	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 ⁹	7.9	39

22	Method for component-based economical optimisation for use in design of new low-energy buildings. <i>Renewable Energy</i> , 2012 , 38, 173-180	8.1	39
21	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	7	21
20	Collaboration Opportunities in Advanced Housing Renovation. <i>Energy Procedia</i> , 2012 , 30, 1380-1389	2.3	14
19	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	10.6	28
18	Energy and exergy analysis of low temperature district heating network. <i>Energy</i> , 2012 , 45, 237-246	7.9	113
17	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	1.1	4
16	Experimental analysis of energy performance of a ventilated window for heat recovery under controlled conditions. <i>Energy and Buildings</i> , 2011 , 43, 3200-3207	7	19
15	Method for simulating predictive control of building systems operation in the early stages of building design. <i>Applied Energy</i> , 2011 , 88, 4597-4606	10.7	29
14	Analytical and experimental analysis of a low-pressure heat exchanger suitable for passive ventilation. <i>Energy and Buildings</i> , 2011 , 43, 275-284	7	21
13	Quantifying the potential of automated dynamic solar shading in office buildings through integrated simulations of energy and daylight. <i>Solar Energy</i> , 2011 , 85, 757-768	6.8	164
12	Illuminance Level in the Urban Fabric and in the Room. <i>Indoor and Built Environment</i> , 2011 , 20, 456-463	1.8	12
11	Method and simulation program informed decisions in the early stages of building design. <i>Energy and Buildings</i> , 2010 , 42, 1113-1119	7	86
10	Development of a slim window frame made of glass fibre reinforced polyester. <i>Energy and Buildings</i> , 2010 , 42, 1918-1925	7	30
9	Quasi-steady-state model of a counter-flow air-to-air heat-exchanger with phase change. <i>Applied Energy</i> , 2008 , 85, 312-325	10.7	17
8	Simple tool to evaluate the impact of daylight on building energy consumption. <i>Solar Energy</i> , 2008 , 82, 787-798	6.8	55
7	Comparison between ASHRAE and ISO thermal transmittance calculation methods. <i>Energy and Buildings</i> , 2007 , 39, 374-384	7	18
6	Modelling floor heating systems using a validated two-dimensional ground-coupled numerical model. <i>Building and Environment</i> , 2005 , 40, 153-163	6.5	43
5	Solar collector design with respect to moisture problems. <i>Solar Energy</i> , 2003 , 75, 269-276	6.8	7

4	Energy labelling of glazings and windows in Denmark: calculated and measured values. <i>Solar Energy</i> , 2002 , 73, 23-31	6.8	16
3	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		13
2	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	6.8	20
1	Solar collector with monolithic silica aerogel. <i>Journal of Non-Crystalline Solids</i> , 1992 , 145, 240-243	3.9	33