Natasa Nord

List of Publications by Citations

74 papers	1,262 citations	22 h-index	33 g-index
76 ext. papers	1,690 ext. citations	5.5 avg, IF	5.56 L-index

#	Paper	IF	Citations
74	IEA EBC annex 53: Total energy use in buildings—Analysis and evaluation methods. *Energy and Buildings*, **2017**, 152, 124-136	7	180
73	Optimization of energy consumption in buildings with hydronic heating systems considering thermal comfort by use of computer-based tools. *Energy and Buildings*, **2007**, 39, 471-477	7	82
72	Low Temperature District Heating for Future Energy Systems. *Energy Procedia*, **2017**, 116, 26-38	2.3	63
71	Integrated multiscale simulation of combined heat and power based district heating system. *Energy Conversion and Management*, **2015**, 106, 337-354	10.6	55
70	A variation focused cluster analysis strategy to identify typical daily heating load profiles of higher education buildings. *Energy*, **2017**, 134, 90-102	7.9	49
69	Challenges and potentials for low-temperature district heating implementation in Norway. *Energy*, **2018**, 151, 889-902	7.9	47
68	Review of possibilities and necessities for building lifetime commissioning. *Renewable and Sustainable Energy Reviews*, **2009**, 13, 486-492	16.2	42
67	Dynamic modeling of local district heating grids with prosumers: A case study for Norway. *Energy*, **2018**, 151, 261-271	7.9	38
66	An overall methodology to define reference values for building sustainability parameters. *Energy and Buildings*, **2015**, 88, 413-427	7	37
65	Energy planning of university campus building complex: Energy usage and coincidental analysis of individual buildings with a case study. *Energy and Buildings*, **2016**, 124, 99-111	7	34
64	Transition to the 4th generation district heating - possibilities, bottlenecks, and challenges. *Energy Procedia*, **2018**, 149, 483-498	2.3	34
63	Identifying important variables of energy use in low energy office building by using multivariate analysis. *Energy and Buildings*, **2012**, 45, 91-98	7	31
62	Uncertainty of the allocation factors of heat and electricity production of combined cycle power plant. *Applied Thermal Engineering*, **2015**, 76, 410-422	5.8	30
61	A state-of-art review of retrofit interventions in buildings towards nearly zero energy level. *Energy Procedia*, **2017**, 134, 317-326	2.3	27
60	Building heating applications with phase change material: A comprehensive review. *Journal of Energy Storage*, **2020**, 31, 101634	7.8	25
59	Achieving zero-energy building performance with thermal and visual comfort enhancement through optimization of fenestration, envelope, shading device, and energy supply system. *Sustainable Energy Technologies and Assessments*, **2021**, 44, 101020	4.7	25
58	Influence of occupant behavior and operation on performance of a residential Zero Emission Building in Norway. *Energy and Buildings*, **2018**, 159, 75-88	7	24

57	Identifying key design parameters of the integrated energy system for a residential Zero Emission Building in Norway. *Renewable Energy*, **2016**, 87, 1076-1087	8.1	23
56	Minimizing delivered energy and life cycle cost using Graphical script: An office building retrofitting case. *Applied Energy*, **2020**, 268, 114929	10.7	23
55	Energy planning of district heating for future building stock based on renewable energies and increasing supply flexibility. *Energy*, **2016**, 112, 1227-1244	7.9	23
54	Heating system performance estimation using optimization tool and BEMS data. *Energy and Buildings*, **2008**, 40, 1367-1376	7	23
53	Analysis of an integrated heating and cooling system for a building complex with focus on long□erm thermal storage. *Applied Thermal Engineering*, **2018**, 145, 791-803	5.8	23
52	Building energy performance assessment using volatility change based symbolic transformation and hierarchical clustering. *Energy and Buildings*, **2018**, 166, 284-295	7	22
51	Success factors of energy efficiency measures in buildings in Norway. *Energy and Buildings*, **2014**, 76, 476-487	7	21
50	Dynamic optimization of control setpoints for an integrated heating and cooling system with thermal energy storages. *Energy*, **2020**, 193, 116771	7.9	21
49	Energy, economic, and environmental analysis of integration of thermal energy storage into district heating systems using waste heat from data centres. *Energy*, **2021**, 219, 119582	7.9	19
48	Dynamic modelling of local low-temperature heating grids: A case study for Norway. *Energy*, **2017**, 139, 289-297	7.9	17
47	Large-scale monitoring of operationally diverse district heating substations: A reference-group based approach. *Engineering Applications of Artificial Intelligence*, **2020**, 90, 103492	7.2	16
46	Performance assessment of all-air heating in an office cubicle equipped with an active supply diffuser in a cold climate. *Building and Environment*, **2019**, 156, 123-136	6.5	12
45	Building Energy Efficiency in Cold Climates **2017**, 149-157		11
44	A highly innovative yet cost-effective multi-generation energy system for net-zero energy buildings. *Energy Conversion and Management*, **2021**, 237, 114120	10.6	11
43	Correlation between standards and the lifetime commissioning. *Energy and Buildings*, **2010**, 42, 510-521	7	10
42	An ANN-based optimization approach of building energy systems: Case study of swimming pool. *Journal of Cleaner Production*, **2020**, 277, 124029	10.3	9
41	Parametric study of condensation at heating, ventilation, and air-conditioning duct□s external surface. *Building Services Engineering Research and Technology*, **2018**, 39, 328-342	2.3	8
40	Necessary Measures to Include more Distributed Renewable Energy Sources into District Heating System. *Energy Procedia*, **2017**, 116, 48-57	2.3	8

39	Model predictive control under weather forecast uncertainty for HVAC systems in university buildings. *Energy and Buildings*, **2022**, 257, 111793	7	8
38	Selecting the model and influencing variables for DHW heat use prediction in hotels in Norway. *Energy and Buildings*, **2020**, 228, 110441	7	8
37	Future Trends in District Heating Development. *Current Sustainable/Renewable Energy Reports*, **2018**, 5, 172-180	2.8	8
36	Analysis of electricity use and economic impacts for buildings with electric heating under lockdown conditions: examples for educational buildings and residential buildings in Norway. *Sustainable Cities and Society*, **2021**, 74, 103253	10.1	8
35	Energy cost models for air supported sports hall in cold climates considering energy efficiency. *Renewable Energy*, **2015**, 84, 56-64	8.1	7
34	Development and analysis of hourly DHW heat use profiles in nursing homes in Norway. *Energy and Buildings*, **2020**, 222, 110070	7	7
33	Data fusion heat pump performance estimation. *Energy and Buildings*, **2011**, 43, 621-630	7	7
32	Importance of Increased Knowledge on Reliability of District Heating Pipes. *Procedia Engineering*, **2016**, 146, 415-423		7
31	Implementation of CCPP for energy supply of future building stock. *Applied Energy*, **2015**, 155, 753-765	10.7	6
30	Swimming pool heating technology: A state-of-the-art review. *Building Simulation*, **2021**, 14, 421-440	3.9	6
29	Optimize heat prosumersaeconomic performance under current heating price models by using water tank thermal energy storage. *Energy*, **2022**, 239, 122103	7.9	6
28	Support vector machine for the prediction of heating energy use. *Thermal Science*, **2018**, 22, 1171-1181	1.2	5
27	Splitting measurements of the total heat demand in a hotel into domestic hot water and space heating heat use. *Energy*, **2021**, 219, 119685	7.9	5
26	Building Retrofitting through Coupling of Building Energy Simulation-Optimization Tool with CFD and Daylight Programs. *Energies*, **2021**, 14, 2180	3.1	5
25	Top-down spatially-explicit probabilistic estimation of building energy performance at a scale. *Energy and Buildings*, **2021**, 238, 110786	7	5
24	Data informed physical models for district heating grids with distributed heat sources to understand thermal and hydraulic aspects. *Energy*, **2021**, 222, 119965	7.9	5
23	Life cycle analysis of GHG emissions from the building retrofitting: The case of a Norwegian office building. *Building and Environment*, **2021**, 204, 108159	6.5	5
22	A study on the integration of air-source heat pumps, solar collectors, and PCM tanks for outdoor swimming pools for winter application in subtropical climates. *Journal of Building Performance Simulation*, **2020**, 13, 662-683	2.8	4

21	A Hybrid Biomass Hydrothermal Gasification- Solid Oxide Fuel Cell System Combined with Improved CHP Plant for Sustainable Power Generation. *Energy Procedia*, **2017**, 112, 467-472	2.3	3
20	Improved measurements for better decision on heat recovery solutions with heat pumps. *International Journal of Refrigeration*, **2012**, 35, 1558-1569	3.8	3
19	Future energy pathways for a university campus considering possibilities for energy efficiency improvements. *IOP Conference Series: Earth and Environmental Science*, **2019**, 352, 012037	0.3	3
18	A study of citywide urban residential energy information system for the building energy efficiency management: a cluster model of seven typical cities in China. *Energy Efficiency*, **2019**, 12, 1509-1528	3	3
17	Analysis of heat use profiles in Norwegian educational institutions in conditions of COVID-lockdown. *Journal of Building Engineering*, **2021**, 43, 102576	5.2	3
16	Distinguish between the economic optimal and lowest distribution temperatures for heat-prosumer-based district heating systems with short-term thermal energy storage. *Energy*, **2022**, 248, 123601	7.9	3
15	Analysis of energy signatures and planning of heating and domestic hot water energy use in buildings in Norway. *E3S Web of Conferences*, **2019**, 111, 06009	0.5	2
14	Operation strategies to achieve low supply and return temperature in district heating system. *E3S Web of Conferences*, **2019**, 111, 05022	0.5	2
13	Identifying typical hourly DHW energy use profiles in a hotel in Norway by using statistical methods. *E3S Web of Conferences*, **2019**, 111, 04015	0.5	1
12	Lifetime commissioning as a tool to achieve energy-efficient solutions. *International Journal of Energy Research*, **2012**, 36, 987-999	4.5	1
11	Techno-economic analysis of implementing thermal storage for peak load shaving in a campus district heating system with waste heat from the data centre. *E3S Web of Conferences*, **2021**, 246, 09003	0.5	1
10	Sizing and performance analyses of a combined heating and cooling system with the integration of short- and long-term storages. *E3S Web of Conferences*, **2021**, 246, 07004	0.5	1
9	A systematic approach for data analysis and prediction methods for annual energy profiles: An example for school buildings in Norway. *Energy and Buildings*, **2021**, 247, 111160	7	1
8	Hybrid artificial intelligence model for prediction of heating energy use. *Thermal Science*, **2021**, 152-152	1.2	0
7	Energy Pathways for Future Norwegian Residential Building Areas. *Energies*, **2021**, 14, 934	3.1	0
6	The effect of building attributes on the energy performance at a scale: an inferential analysis. *Building Research and Information*,1-19	4.3	0
5	Investigation of Combined Heating and Cooling Systems with Short- and Long-Term Storages. *Sustainability*, **2022**, 14, 5709	3.6	0
4	Nonlinear model predictive control for the space heating system of a university building in Norway. *Energy*, **2022**, 253, 124157	7.9	0

3	Energy Pathways for Future Residential Building Areas in Norway. *Springer Proceedings in Energy*, **2019**, 505-517	0.2
2	Influence of emerging technologies deployment in residential built stock on electric energy cost and grid load. *IOP Conference Series: Earth and Environmental Science*, **2019**, 352, 012038	0.3
1	Study of a water-source CO2 heat pump for residential use: experimental discharge pressure control and performance analysis. *E3S Web of Conferences*, **2021**, 246, 06010	0.5