

Natasa Nord

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.

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	Model predictive control under weather forecast uncertainty for HVAC systems in university buildings. <i>Energy and Buildings</i> , 2022 , 257, 111793	7	8
73	Optimize heat prosumers economic performance under current heating price models by using water tank thermal energy storage. <i>Energy</i> , 2022 , 239, 122103	7.9	6
72	Distinguish between the economic optimal and lowest distribution temperatures for heat-prosumer-based district heating systems with short-term thermal energy storage. <i>Energy</i> , 2022 , 248, 123601	7.9	3
71	Investigation of Combined Heating and Cooling Systems with Short- and Long-Term Storages. <i>Sustainability</i> , 2022 , 14, 5709	3.6	0
70	Nonlinear model predictive control for the space heating system of a university building in Norway. <i>Energy</i> , 2022 , 253, 124157	7.9	0
69	Splitting measurements of the total heat demand in a hotel into domestic hot water and space heating heat use. <i>Energy</i> , 2021 , 219, 119685	7.9	5
68	Energy, economic, and environmental analysis of integration of thermal energy storage into district heating systems using waste heat from data centres. <i>Energy</i> , 2021 , 219, 119582	7.9	19
67	Building Retrofitting through Coupling of Building Energy Simulation-Optimization Tool with CFD and Daylight Programs. <i>Energies</i> , 2021 , 14, 2180	3.1	5
66	Achieving zero-energy building performance with thermal and visual comfort enhancement through optimization of fenestration, envelope, shading device, and energy supply system. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 44, 101020	4.7	25
65	Top-down spatially-explicit probabilistic estimation of building energy performance at a scale. <i>Energy and Buildings</i> , 2021 , 238, 110786	7	5
64	Data informed physical models for district heating grids with distributed heat sources to understand thermal and hydraulic aspects. <i>Energy</i> , 2021 , 222, 119965	7.9	5
63	A highly innovative yet cost-effective multi-generation energy system for net-zero energy buildings. <i>Energy Conversion and Management</i> , 2021 , 237, 114120	10.6	11
62	Swimming pool heating technology: A state-of-the-art review. <i>Building Simulation</i> , 2021 , 14, 421-440	3.9	6
61	Techno-economic analysis of implementing thermal storage for peak load shaving in a campus district heating system with waste heat from the data centre. <i>E3S Web of Conferences</i> , 2021 , 246, 09003	0.5	1
60	Hybrid artificial intelligence model for prediction of heating energy use. <i>Thermal Science</i> , 2021 , 152-152	1.2	0
59	Sizing and performance analyses of a combined heating and cooling system with the integration of short- and long-term storages. <i>E3S Web of Conferences</i> , 2021 , 246, 07004	0.5	1
58	Energy Pathways for Future Norwegian Residential Building Areas. <i>Energies</i> , 2021 , 14, 934	3.1	0

57	A systematic approach for data analysis and prediction methods for annual energy profiles: An example for school buildings in Norway. <i>Energy and Buildings</i> , 2021 , 247, 111160	7	1
56	Life cycle analysis of GHG emissions from the building retrofitting: The case of a Norwegian office building. <i>Building and Environment</i> , 2021 , 204, 108159	6.5	5
55	Analysis of heat use profiles in Norwegian educational institutions in conditions of COVID-lockdown. <i>Journal of Building Engineering</i> , 2021 , 43, 102576	5.2	3
54	Analysis of electricity use and economic impacts for buildings with electric heating under lockdown conditions: examples for educational buildings and residential buildings in Norway. <i>Sustainable Cities and Society</i> , 2021 , 74, 103253	10.1	8
53	Study of a water-source CO2 heat pump for residential use: experimental discharge pressure control and performance analysis. <i>E3S Web of Conferences</i> , 2021 , 246, 06010	0.5	
52	Development and analysis of hourly DHW heat use profiles in nursing homes in Norway. <i>Energy and Buildings</i> , 2020 , 222, 110070	7	7
51	Large-scale monitoring of operationally diverse district heating substations: A reference-group based approach. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 90, 103492	7.2	16
50	Minimizing delivered energy and life cycle cost using Graphical script: An office building retrofitting case. <i>Applied Energy</i> , 2020 , 268, 114929	10.7	23
49	Dynamic optimization of control setpoints for an integrated heating and cooling system with thermal energy storages. <i>Energy</i> , 2020 , 193, 116771	7.9	21
48	An ANN-based optimization approach of building energy systems: Case study of swimming pool. <i>Journal of Cleaner Production</i> , 2020 , 277, 124029	10.3	9
47	Building heating applications with phase change material: A comprehensive review. <i>Journal of Energy Storage</i> , 2020 , 31, 101634	7.8	25
46	Selecting the model and influencing variables for DHW heat use prediction in hotels in Norway. <i>Energy and Buildings</i> , 2020 , 228, 110441	7	8
45	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. <i>Journal of Building Performance Simulation</i> , 2020 , 13, 662-683	2.8	4
44	Performance assessment of all-air heating in an office cubicle equipped with an active supply diffuser in a cold climate. <i>Building and Environment</i> , 2019 , 156, 123-136	6.5	12
43	Identifying typical hourly DHW energy use profiles in a hotel in Norway by using statistical methods. <i>E3S Web of Conferences</i> , 2019 , 111, 04015	0.5	1
42	Analysis of energy signatures and planning of heating and domestic hot water energy use in buildings in Norway. <i>E3S Web of Conferences</i> , 2019 , 111, 06009	0.5	2
41	Operation strategies to achieve low supply and return temperature in district heating system. <i>E3S Web of Conferences</i> , 2019 , 111, 05022	0.5	2
40	Energy Pathways for Future Residential Building Areas in Norway. <i>Springer Proceedings in Energy</i> , 2019 , 505-517	0.2	

39	Future energy pathways for a university campus considering possibilities for energy efficiency improvements. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 352, 012037	0.3	3
38	Influence of emerging technologies deployment in residential built stock on electric energy cost and grid load. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 352, 012038	0.3	
37	A study of citywide urban residential energy information system for the building energy efficiency management: a cluster model of seven typical cities in China. <i>Energy Efficiency</i> , 2019 , 12, 1509-1528	3	3
36	Building energy performance assessment using volatility change based symbolic transformation and hierarchical clustering. <i>Energy and Buildings</i> , 2018 , 166, 284-295	7	22
35	Challenges and potentials for low-temperature district heating implementation in Norway. <i>Energy</i> , 2018 , 151, 889-902	7.9	47
34	Dynamic modeling of local district heating grids with prosumers: A case study for Norway. <i>Energy</i> , 2018 , 151, 261-271	7.9	38
33	Influence of occupant behavior and operation on performance of a residential Zero Emission Building in Norway. <i>Energy and Buildings</i> , 2018 , 159, 75-88	7	24
32	Parametric study of condensation at heating, ventilation, and air-conditioning ducts external surface. <i>Building Services Engineering Research and Technology</i> , 2018 , 39, 328-342	2.3	8
31	Support vector machine for the prediction of heating energy use. <i>Thermal Science</i> , 2018 , 22, 1171-1181	1.2	5
30	Transition to the 4th generation district heating - possibilities, bottlenecks, and challenges. <i>Energy Procedia</i> , 2018 , 149, 483-498	2.3	34
29	Analysis of an integrated heating and cooling system for a building complex with focus on long-term thermal storage. <i>Applied Thermal Engineering</i> , 2018 , 145, 791-803	5.8	23
28	Future Trends in District Heating Development. <i>Current Sustainable/Renewable Energy Reports</i> , 2018 , 5, 172-180	2.8	8
27	A Hybrid Biomass Hydrothermal Gasification- Solid Oxide Fuel Cell System Combined with Improved CHP Plant for Sustainable Power Generation. <i>Energy Procedia</i> , 2017 , 112, 467-472	2.3	3
26	A state-of-art review of retrofit interventions in buildings towards nearly zero energy level. <i>Energy Procedia</i> , 2017 , 134, 317-326	2.3	27
25	Necessary Measures to Include more Distributed Renewable Energy Sources into District Heating System. <i>Energy Procedia</i> , 2017 , 116, 48-57	2.3	8
24	IEA EBC annex 53: Total energy use in buildings Analysis and evaluation methods. <i>Energy and Buildings</i> , 2017 , 152, 124-136	7	180
23	Low Temperature District Heating for Future Energy Systems. <i>Energy Procedia</i> , 2017 , 116, 26-38	2.3	63
22	Dynamic modelling of local low-temperature heating grids: A case study for Norway. <i>Energy</i> , 2017 , 139, 289-297	7.9	17

21	Building Energy Efficiency in Cold Climates 2017 , 149-157		11
20	A variation focused cluster analysis strategy to identify typical daily heating load profiles of higher education buildings. <i>Energy</i> , 2017 , 134, 90-102	7.9	49
19	Identifying key design parameters of the integrated energy system for a residential Zero Emission Building in Norway. <i>Renewable Energy</i> , 2016 , 87, 1076-1087	8.1	23
18	Energy planning of district heating for future building stock based on renewable energies and increasing supply flexibility. <i>Energy</i> , 2016 , 112, 1227-1244	7.9	23
17	Energy planning of university campus building complex: Energy usage and coincidental analysis of individual buildings with a case study. <i>Energy and Buildings</i> , 2016 , 124, 99-111	7	34
16	Importance of Increased Knowledge on Reliability of District Heating Pipes. <i>Procedia Engineering</i> , 2016 , 146, 415-423		7
15	Implementation of CCPP for energy supply of future building stock. <i>Applied Energy</i> , 2015 , 155, 753-765	10.7	6
14	Energy cost models for air supported sports hall in cold climates considering energy efficiency. <i>Renewable Energy</i> , 2015 , 84, 56-64	8.1	7
13	Integrated multiscale simulation of combined heat and power based district heating system. <i>Energy Conversion and Management</i> , 2015 , 106, 337-354	10.6	55
12	An overall methodology to define reference values for building sustainability parameters. <i>Energy and Buildings</i> , 2015 , 88, 413-427	7	37
11	Uncertainty of the allocation factors of heat and electricity production of combined cycle power plant. <i>Applied Thermal Engineering</i> , 2015 , 76, 410-422	5.8	30
10	Success factors of energy efficiency measures in buildings in Norway. <i>Energy and Buildings</i> , 2014 , 76, 476-487	7	21
9	Identifying important variables of energy use in low energy office building by using multivariate analysis. <i>Energy and Buildings</i> , 2012 , 45, 91-98	7	31
8	Improved measurements for better decision on heat recovery solutions with heat pumps. <i>International Journal of Refrigeration</i> , 2012 , 35, 1558-1569	3.8	3
7	Lifetime commissioning as a tool to achieve energy-efficient solutions. <i>International Journal of Energy Research</i> , 2012 , 36, 987-999	4.5	1
6	Data fusion heat pump performance estimation. <i>Energy and Buildings</i> , 2011 , 43, 621-630	7	7
5	Correlation between standards and the lifetime commissioning. <i>Energy and Buildings</i> , 2010 , 42, 510-521	7	10
4	Review of possibilities and necessities for building lifetime commissioning. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 486-492	16.2	42

3	Heating system performance estimation using optimization tool and BEMS data. <i>Energy and Buildings</i> , 2008 , 40, 1367-1376	7	23
2	Optimization of energy consumption in buildings with hydronic heating systems considering thermal comfort by use of computer-based tools. <i>Energy and Buildings</i> , 2007 , 39, 471-477	7	82
1	The effect of building attributes on the energy performance at a scale: an inferential analysis. <i>Building Research and Information</i> , 1-19	4.3	0