

Jan Lm Hensen

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.

147
papers

6,487
citations

46
h-index

77
g-index

159
ext. papers

7,460
ext. citations

5.8
avg, IF

6.45
L-index

#	Paper	IF	Citations
147	Future-Proof Energy-Retrofit Strategy for an Existing Dutch Neighbourhood. <i>Energy and Buildings</i> , 2022 , 260, 111914	7	2
146	Energy flexibility assessment of a zero-energy office building with building thermal mass in short-term demand-side management. <i>Journal of Building Engineering</i> , 2022 , 104214	5.2	1
145	Design Optimisation of Fixed and Adaptive Shading Devices on Four Façade Orientations of a High-Rise Office Building in the Tropics. <i>Buildings</i> , 2022 , 12, 25	3.2	2
144	Investigating the energy saving potential of thermochromic coatings on building envelopes. <i>Applied Energy</i> , 2021 , 291, 116788	10.7	5
143	Multi-state vertical-blinds solar shading [Performance assessment and recommended development directions. <i>Journal of Building Engineering</i> , 2021 , 40, 102743	5.2	5
142	Investigating the energy flexibility of Dutch office buildings on single building level and building cluster level. <i>Journal of Building Engineering</i> , 2021 , 40, 102687	5.2	4
141	Calculating solar irradiance without shading geometry: a point cloud-based method. <i>Journal of Building Performance Simulation</i> , 2021 , 14, 480-502	2.8	3
140	Investigating energy performance of large-scale seasonal storage in the district heating system of chifeng city: Measurements and model-based analysis of operation strategies. <i>Energy and Buildings</i> , 2021 , 247, 111113	7	3
139	Moisture-participating MOF thermal battery for heat reallocation between indoor environment and building-integrated photovoltaics. <i>Nano Energy</i> , 2021 , 87, 106224	17.1	4
138	Heuristic battery-protective strategy for energy management of an interactive renewablesBuildingsVehicles energy sharing network with high energy flexibility. <i>Energy Conversion and Management</i> , 2020 , 214, 112891	10.6	18
137	Simulation-based design optimization of houses with low grid dependency. <i>Renewable Energy</i> , 2020 , 157, 1185-1202	8.1	3
136	A stepwise approach for assessing the appropriate occupant behaviour modelling in building performance simulation. <i>Journal of Building Performance Simulation</i> , 2020 , 13, 362-377	2.8	14
135	Large-scale living laboratory of seasonal borehole thermal energy storage system for urban district heating. <i>Applied Energy</i> , 2020 , 264, 114763	10.7	15
134	Simulation-based assessment of data center waste heat utilization using aquifer thermal energy storage of a university campus. <i>Building Simulation</i> , 2020 , 13, 823-836	3.9	7
133	The solar noise barrier project 4: Modeling of full-scale luminescent solar concentrator noise barrier panels. <i>Renewable Energy</i> , 2020 , 151, 1141-1149	8.1	14
132	Data-driven inference of unknown tilt and azimuth of distributed PV systems. <i>Solar Energy</i> , 2020 , 211, 418-432	6.8	11
131	Nomograms for de-complexing the dimensioning of off-grid PV systems. <i>Renewable Energy</i> , 2020 , 161, 162-172	8.1	0

130	Energy flexibility potential of a small district connected to a district heating system. <i>Energy and Buildings</i> , 2020 , 225, 110074	7	16
129	Occupant behavior in identical residential buildings: A case study for occupancy profiles extraction and application to building performance simulation. <i>Building Simulation</i> , 2019 , 12, 1047-1061	3.9	19
128	Energy integration and interaction between buildings and vehicles: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 114, 109337	16.2	46
127	Opportunities and pitfalls of using building performance simulation in explorative R&D contexts. <i>Journal of Building Performance Simulation</i> , 2019 , 12, 272-288	2.8	16
126	Cross-ventilation in a generic isolated building equipped with louvers: Wind-tunnel experiments and CFD simulations. <i>Building and Environment</i> , 2019 , 154, 263-280	6.5	36
125	Assessing the performance potential of climate adaptive greenhouse shells. <i>Energy</i> , 2019 , 175, 534-545	7.9	9
124	Building performance robustness assessment: Comparative study and demonstration using scenario analysis. <i>Energy and Buildings</i> , 2019 , 202, 109362	7	12
123	Integrating robustness indicators into multi-objective optimization to find robust optimal low-energy building designs. <i>Journal of Building Performance Simulation</i> , 2019 , 12, 546-565	2.8	7
122	An inverse modeling approach for the thermal response modeling of green façades. <i>Applied Energy</i> , 2019 , 235, 1447-1456	10.7	9
121	Angle-dependent optical properties of advanced fenestration systems finding a right balance between model complexity and prediction error. <i>Building Simulation</i> , 2019 , 12, 113-127	3.9	2
120	Kerfless epitaxial silicon wafers with 7 ms carrier lifetimes and a wide lift-off process window. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 041301	1.4	3
119	Lifecycle cost and CO2 emissions of residential heat and electricity prosumers in Finland and the Netherlands. <i>Energy Conversion and Management</i> , 2018 , 160, 495-508	10.6	14
118	A methodology for performance robustness assessment of low-energy buildings using scenario analysis. <i>Applied Energy</i> , 2018 , 212, 428-442	10.7	33
117	Estimating the influence of occupant behavior on building heating and cooling energy in one simulation run. <i>Applied Energy</i> , 2018 , 223, 159-171	10.7	33
116	Application of large underground seasonal thermal energy storage in district heating system: A model-based energy performance assessment of a pilot system in Chifeng, China. <i>Applied Thermal Engineering</i> , 2018 , 137, 319-328	5.8	27
115	Mapping failures in energy and environmental performance of buildings. <i>Energy and Buildings</i> , 2018 , 158, 476-485	7	21
114	Investigating the potential of a closed-loop dynamic insulation system for opaque building elements. <i>Energy and Buildings</i> , 2018 , 173, 409-427	7	24
113	Computational performance analysis of overheating mitigation measures in parked vehicles. <i>Applied Energy</i> , 2018 , 231, 635-644	10.7	3

112	An unsupervised method for identifying local PV shading based on AC power and regional irradiance data. <i>Solar Energy</i> , 2018 , 174, 1068-1077	6.8	7
111	9 ms carrier lifetime in kerfless epitaxial wafers by n-type POLO gettering 2018 ,		5
110	Review of current status, requirements and opportunities for building performance simulation of adaptive facades□□Roel C.G.M. Loonen and Fabio Favoino contributed equally to this work.View all notes. <i>Journal of Building Performance Simulation</i> , 2017 , 10, 205-223	2.8	91
109	4.5 ms Effective Carrier Lifetime in Kerfless Epitaxial Silicon Wafers From the Porous Silicon Process. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 430-436	3.7	13
108	Empirical model predicting the layer thickness and porosity of p-type mesoporous silicon. <i>Semiconductor Science and Technology</i> , 2017 , 32, 045007	1.8	1
107	Simulating the cooling effects of water spray systems in urban landscapes: A computational fluid dynamics study in Rotterdam, The Netherlands. <i>Landscape and Urban Planning</i> , 2017 , 159, 85-100	7.7	54
106	Ultra-lightweight concrete: Energy and comfort performance evaluation in relation to buildings with low and high thermal mass. <i>Energy and Buildings</i> , 2017 , 138, 432-442	7	52
105	On the sensitivity to different aspects of occupant behaviour for selecting the appropriate modelling complexity in building performance predictions. <i>Journal of Building Performance Simulation</i> , 2017 , 10, 601-611	2.8	12
104	Thermal comfort optimisation of vernacular rural buildings: passive solutions to retrofit a typical farmhouse in central Italy. <i>Journal of Agricultural Engineering</i> , 2017 , 48, 127	1.3	5
103	On occupant-centric building performance metrics. <i>Building and Environment</i> , 2017 , 122, 373-385	6.5	59
102	The impact of climate change on the overheating risk in dwellings□ Dutch case study. <i>Building and Environment</i> , 2017 , 122, 307-323	6.5	74
101	International survey on current occupant modelling approaches in building performance simulation□□Isabella Gaetani, Sara Gilani, and Salvatore Carlucci contributed equally to this work.View all notes. <i>Journal of Building Performance Simulation</i> , 2017 , 10, 653-671	2.8	36
100	A central solar-industrial waste heat heating system with large scale borehole thermal storage. <i>Procedia Engineering</i> , 2017 , 205, 1584-1591		11
99	Evaluating energy performance in non-domestic buildings: A review. <i>Energy and Buildings</i> , 2016 , 128, 734-755	7	77
98	Thermomechanical Spalling of Epitaxially Grown Silicon from Porosified Substrates. <i>Energy Procedia</i> , 2016 , 92, 873-879	2.3	3
97	Reuse of Substrate Wafers for the Porous Silicon Layer Transfer. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 783-790	3.7	6
96	An optimization method for the distance between exits of buildings considering uncertainties based on arbitrary polynomial chaos expansion. <i>Reliability Engineering and System Safety</i> , 2016 , 154, 188-196	6.3	8
95	A performance comparison of multi-objective optimization algorithms for solving nearly-zero-energy-building design problems. <i>Energy and Buildings</i> , 2016 , 121, 57-71	7	185

94	Analysis of the predicted effect of passive climate adaptation measures on energy demand for cooling and heating in a residential building. <i>Energy</i> , 2016 , 94, 811-820	7.9	74
93	The potential of lightweight low-energy houses with hybrid adaptable thermal storage: Comparing the performance of promising concepts. <i>Energy and Buildings</i> , 2016 , 110, 79-93	7	33
92	Full-factorial design space exploration approach for multi-criteria decision making of the design of industrial halls. <i>Energy and Buildings</i> , 2016 , 117, 352-361	7	14
91	Towards simulation-assisted performance monitoring of BIPV systems considering shading effects 2016 ,		1
90	Occupant behavior in building energy simulation: Towards a fit-for-purpose modeling strategy. <i>Energy and Buildings</i> , 2016 , 121, 188-204	7	187
89	Lifetime Analysis for Defect Characterization in Kerfless Epitaxial Silicon from the Porous Silicon Process. <i>Energy Procedia</i> , 2016 , 92, 29-36	2.3	3
88	Simulation of Spalling with a Non-planar Bi-layered Interface Due to the Reuse of the Substrate. <i>Energy Procedia</i> , 2016 , 92, 764-772	2.3	
87	Thermal comfort of heterogeneous and dynamic indoor conditions—An overview. <i>Building and Environment</i> , 2016 , 109, 82-100	6.5	63
86	Energy and environment in Chinese rural buildings: Situations, challenges, and intervention strategies. <i>Building and Environment</i> , 2015 , 91, 271-282	6.5	78
85	Integrated building performance simulation: Progress, prospects and requirements. <i>Building and Environment</i> , 2015 , 91, 294-306	6.5	87
84	Comfort and performance impact of personal control over thermal environment in summer: Results from a laboratory study. <i>Building and Environment</i> , 2015 , 87, 315-326	6.5	58
83	CFD analysis of forced convective heat transfer coefficients at windward building facades: Influence of building geometry. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015 , 146, 102-116	3.7	46
82	Electrically switchable polymer stabilised broadband infrared reflectors and their potential as smart windows for energy saving in buildings. <i>Scientific Reports</i> , 2015 , 5, 11773	4.9	84
81	The ventilation needed to control thermal plume and particle dispersion from manikins in a unidirectional ventilated protective isolation room. <i>Building Simulation</i> , 2015 , 8, 551-565	3.9	23
80	A new methodology for investigating the cost-optimality of energy retrofitting a building category. <i>Energy and Buildings</i> , 2015 , 107, 456-478	7	130
79	Evaporative cooling by water spray systems: CFD simulation, experimental validation and sensitivity analysis. <i>Building and Environment</i> , 2015 , 83, 129-141	6.5	105
78	Reprint of: On the predicted effectiveness of climate adaptation measures for residential buildings. <i>Building and Environment</i> , 2015 , 83, 142-158	6.5	37
77	CFD analysis of the impact of physical parameters on evaporative cooling by a mist spray system. <i>Applied Thermal Engineering</i> , 2015 , 75, 608-622	5.8	76

76	Kerfless exfoliated thin crystalline Si wafers with Al metallization layers for solar cells. <i>Journal of Materials Research</i> , 2015 , 30, 3227-3240	2.5	12
75	Developing a Risk Indicator to Quantify Robust Building Design. <i>Energy Procedia</i> , 2015 , 78, 1895-1900	2.3	2
74	Numerical modelling and validation of thermally-induced spalling. <i>Energy Procedia</i> , 2015 , 77, 855-862	2.3	1
73	Directional Heating and Cooling for Controlled Spalling. <i>IEEE Journal of Photovoltaics</i> , 2015 , 5, 195-201	3.7	6
72	Building energy simulation and optimization: A case study of industrial halls with varying process loads and occupancy patterns. <i>Building Simulation</i> , 2014 , 7, 229-236	3.9	21
71	Heating and cooling energy demand in underground buildings: Potential for saving in various climates and functions. <i>Energy and Buildings</i> , 2014 , 71, 129-136	7	24
70	Multi-year and reference year weather data for building energy labelling in north Italy climates. <i>Energy and Buildings</i> , 2014 , 72, 62-72	7	31
69	Analysis of Various Opening Configurations of a Second-Generation Virtual Natural Lighting Solutions Prototype. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2014 , 10, 223-236	3.5	7
68	On the predicted effectiveness of climate adaptation measures for residential buildings. <i>Building and Environment</i> , 2014 , 82, 300-316	6.5	38
67	Application of broadband infrared reflector based on cholesteric liquid crystal polymer bilayer film to windows and its impact on reducing the energy consumption in buildings. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14622	13	61
66	Development of surrogate models using artificial neural network for building shell energy labelling. <i>Energy Policy</i> , 2014 , 69, 457-466	7.2	54
65	Modelling and simulation of virtual natural lighting solutions with complex views. <i>Building Simulation</i> , 2014 , 7, 563-578	3.9	1
64	Framework for assessing the performance potential of seasonally adaptable facades using multi-objective optimization. <i>Energy and Buildings</i> , 2014 , 79, 106-113	7	63
63	User satisfaction and interaction with automated dynamic facades: A pilot study. <i>Building and Environment</i> , 2014 , 78, 44-52	6.5	68
62	Analysis of control strategies for thermally activated building systems under demand side management mechanisms. <i>Energy and Buildings</i> , 2014 , 80, 384-393	7	36
61	Simulation-based support for product development of innovative building envelope components. <i>Automation in Construction</i> , 2014 , 45, 86-95	9.6	50
60	Infrared reflector based on liquid crystal polymers and its impact on thermal comfort conditions in buildings 2014 ,		1
59	Rooftop photovoltaic (PV) systems: a costBenefit analysis study of industrial halls. <i>International Journal of Low-Carbon Technologies</i> , 2014 , 9, 319-326	2.8	4

58	High-quality Exfoliated Crystalline Silicon Foils for Solar Cell Applications. <i>Energy Procedia</i> , 2014 , 55, 570-577	2.3	15
57	Analysis and improvement of the representativeness of EN ISO 15927-4 reference years for building energy simulation. <i>Journal of Building Performance Simulation</i> , 2014 , 7, 391-410	2.8	21
56	Simulation of virtual natural lighting solutions with a simplified view. <i>Lighting Research and Technology</i> , 2014 , 46, 198-218	2	7
55	Comparison between lighting performance of a virtual natural lighting solutions prototype and a real window based on computer simulation. <i>Frontiers of Architectural Research</i> , 2014 , 3, 398-412	2.3	3
54	An Arbitrary Polynomial Chaos-Based Approach to Analyzing the Impacts of Design Parameters on Evacuation Time under Uncertainty. <i>Fire Safety Science</i> , 2014 , 11, 1077-1090		2
53	Achieving informed decision-making for net zero energy buildings design using building performance simulation tools. <i>Building Simulation</i> , 2013 , 6, 3-21	3.9	28
52	Fire safety assessment of semi-open car parks based on validated CFD simulations. <i>Building Simulation</i> , 2013 , 6, 385-394	3.9	10
51	Lift-off of Free-standing Layers in the Kerfless Porous Silicon Process. <i>Energy Procedia</i> , 2013 , 38, 919-925.	3	22
50	Multi-criteria decision making under uncertainty in building performance assessment. <i>Building and Environment</i> , 2013 , 69, 81-90	6.5	90
49	Personal control over temperature in winter in Dutch office buildings. <i>HVAC and R Research</i> , 2013 , 19, 1033-1050		10
48	Impact of available and perceived control on comfort and health in European offices. <i>Architectural Science Review</i> , 2013 , 56, 30-41	2.6	50
47	Climate adaptive building shells: State-of-the-art and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 25, 483-493	16.2	300
46	Review of external convective heat transfer coefficient models in building energy simulation programs: Implementation and uncertainty. <i>Applied Thermal Engineering</i> , 2013 , 56, 134-151	5.8	181
45	Assessing the accuracy of a simplified building energy simulation model using BESTEST: The case study of Brazilian regulation. <i>Energy and Buildings</i> , 2012 , 45, 219-228	7	23
44	State of the art in lighting simulation for building science: a literature review. <i>Journal of Building Performance Simulation</i> , 2012 , 5, 209-233	2.8	78
43	Downdraught assessment during design: Experimental and numerical evaluation of a rule of thumb. <i>Building and Environment</i> , 2012 , 57, 290-301	6.5	14
42	Simulation-based decision support tool for early stages of zero-energy building design. <i>Energy and Buildings</i> , 2012 , 49, 2-15	7	244
41	Rooftop photovoltaic (PV) systems for industrial halls: Achieving economic benefit via lowering energy demand. <i>Frontiers of Architectural Research</i> , 2012 , 1, 326-333	2.3	1

40	Considerations on design optimization criteria for windows providing low energy consumption and high visual comfort. <i>Applied Energy</i> , 2012 , 95, 238-245	10.7	189
39	Selection criteria for building performance simulation tools: contrasting architects and engineers' needs. <i>Journal of Building Performance Simulation</i> , 2012 , 5, 155-169	2.8	97
38	Application of computational fluid dynamics in building performance simulation for the outdoor environment: an overview. <i>Journal of Building Performance Simulation</i> , 2011 , 4, 157-184	2.8	199
37	Uncertainty analysis in building performance simulation for design support. <i>Energy and Buildings</i> , 2011 , 43, 2798-2805	7	291
36	Adaptive thermal comfort in primary school classrooms: Creating and validating PMV-based comfort charts. <i>Building and Environment</i> , 2011 , 46, 2454-2461	6.5	119
35	Testing the effectiveness of operating room ventilation with regard to removal of airborne bacteria. <i>Building and Environment</i> , 2011 , 46, 2570-2577	6.5	16
34	Investigating the potential of a novel low-energy house concept with hybrid adaptable thermal storage. <i>Energy Conversion and Management</i> , 2011 , 52, 2442-2447	10.6	42
33	Modelling and simulation of a jet fan for controlled air flow in large enclosures. <i>Environmental Modelling and Software</i> , 2011 , 26, 191-200	5.2	22
32	Embodied energy of building materials and green building rating systems: A case study for industrial halls. <i>Sustainable Cities and Society</i> , 2011 , 1, 67-71	10.1	40
31	A prospect to develop thermally robust outline design and to explore its applicability to the different climate necessities of Turkey. <i>International Journal of Low-Carbon Technologies</i> , 2011 , 6, 76-85	2.8	1
30	Thermal comfort: research and practice. <i>Frontiers in Bioscience - Landmark</i> , 2010 , 15, 765-88	2.8	70
29	Overview of HVAC system simulation. <i>Automation in Construction</i> , 2010 , 19, 93-99	9.6	114
28	Co-simulation for performance prediction of integrated building and HVAC systems: An analysis of solution characteristics using a two-body system. <i>Simulation Modelling Practice and Theory</i> , 2010 , 18, 957-970	3.9	33
27	Uncertainty in airflow rate calculations due to the use of surface-averaged pressure coefficients. <i>Energy and Buildings</i> , 2010 , 42, 881-888	7	54
26	Thermal comfort and the integrated design of homes for older people with dementia. <i>Building and Environment</i> , 2010 , 45, 358-370	6.5	80
25	The indoor environment and the integrated design of homes for older people with dementia. <i>Building and Environment</i> , 2010 , 45, 1244-1261	6.5	82
24	On the applicability of the laminar flow index when selecting surgical lighting. <i>Building and Environment</i> , 2010 , 45, 1976-1983	6.5	23
23	Co-simulation of innovative integrated HVAC systems in buildings. <i>Journal of Building Performance Simulation</i> , 2009 , 2, 209-230	2.8	56

22	On the Application of Uncertainty and Sensitivity Analysis with Abstract Building Performance Simulation Tools. <i>Journal of Building Physics</i> , 2009 , 33, 5-27	2.6	32
21	User behavior in whole building simulation. <i>Energy and Buildings</i> , 2009 , 41, 295-302	7	393
20	Overview of pressure coefficient data in building energy simulation and airflow network programs. <i>Building and Environment</i> , 2009 , 44, 2027-2036	6.5	134
19	An investigation of the option space in conceptual building design for advanced building simulation. <i>Advanced Engineering Informatics</i> , 2009 , 23, 386-395	7.4	33
18	Thermal comfort in residential buildings: Comfort values and scales for building energy simulation. <i>Applied Energy</i> , 2009 , 86, 772-780	10.7	220
17	Low Energy Cooling of Buildings in Central Europe - Case Studies. <i>International Journal of Ventilation</i> , 2008 , 7, 11-21	1.1	1
16	Energy saving renovation: analysis of critical factors at the building level 2008 ,		2
15	Quantifying the relevance of adaptive thermal comfort models in moderate thermal climate zones. <i>Building and Environment</i> , 2007 , 42, 156-170	6.5	75
14	Distributed Building Performance Simulation: A Novel Approach to Overcome Legacy Code Limitations. <i>HVAC and R Research</i> , 2006 , 12, 621-640		6
13	Thermal comfort and older adults. <i>Gerontechnology</i> , 2006 , 4,	1.5	27
12	Selecting an appropriate tool for airflow simulation in buildings. <i>Building Services Engineering Research and Technology</i> , 2004 , 25, 269-278	2.3	5
11	Performance simulation for better building design. <i>Energy and Buildings</i> , 2004 , 36, 735-736	7	13
10	Simulation for better building design. <i>Building and Environment</i> , 2004 , 39, 875-877	6.5	14
9	Building and Environmental Performance Simulation: Current State and Future Issues. <i>Building and Environment</i> , 2001 , 36, 671-672	6.5	3
8	Energy simulation of displacement ventilation in offices. <i>Building Services Engineering Research and Technology</i> , 1995 , 16, 77-81	2.3	4
7	Towards an integral approach of building and HVAC system. <i>Energy and Buildings</i> , 1993 , 19, 297-302	7	6
6	Design Support Via Simulation of Building and Plant Thermal Interaction 1993 , 227-238		
5	AN Approach to the Simulation of Coupled Heat and Mass Flows in Buildings. <i>Indoor Air</i> , 1991 , 1, 283-296	5.4	8

4	Literature review on thermal comfort in transient conditions. <i>Building and Environment</i> , 1990 , 25, 309-316	5	85
3	Why Integral Design of Building and Systems? 1990 , 490-492		
2	Building Performance Simulation for Design and Operation		33
1	Simulation-aided development of automated solar shading control strategies using performance mapping and statistical classification. <i>Journal of Building Performance Simulation</i> , 1-23	2.8	5