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List of Publications by Year
in descending order

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46 papers	4,279 citations	185998 28 h-index	233125 45 g-index
47 all docs	47 docs citations	47 times ranked	2607 citing authors

#	Article	IF	Citations
1	Urban building energy modeling â€“ A review of a nascent field. Building and Environment, 2016, 97, 196-202.	3.0	600
2	Dynamic Daylight Performance Metrics for Sustainable Building Design. LEUKOS - Journal of Illuminating Engineering Society of North America, 2006, 3, 7-31.	1.5	503
3	Validation of dynamic RADIANCE-based daylight simulations for a test office with external blinds. Energy and Buildings, 2001, 33, 683-697.	3.1	470
4	Adding advanced behavioural models in whole building energy simulation: A study on the total energy impact of manual and automated lighting control. Energy and Buildings, 2006, 38, 814-823.	3.1	238
5	A method for predicting city-wide electricity gains from photovoltaic panels based on LiDAR and GIS data combined with hourly Daysim simulations. Solar Energy, 2013, 93, 127-143.	2.9	216
6	The simulation of annual daylight illuminance distributions â€” a state-of-the-art comparison of six RADIANCE-based methods. Energy and Buildings, 2000, 32, 167-187.	3.1	209
7	Modeling Boston: A workflow for the efficient generation and maintenance of urban building energy models from existing geospatial datasets. Energy, 2016, 117, 237-250.	4.5	190
8	Validation of a Bayesian-based method for defining residential archetypes in urban building energy models. Energy and Buildings, 2017, 134, 11-24.	3.1	166
9	Development and validation of a Radiance model for a translucent panel. Energy and Buildings, 2006, 38, 890-904.	3.1	155
10	Findings from a survey on the current use of daylight simulations in building design. Energy and Buildings, 2006, 38, 824-835.	3.1	148
11	From concept to application: A review of use cases in urban building energy modeling. Applied Energy, 2020, 279, 115738.	5.1	109
12	Experimental Validation of AutodeskÂ® 3ds MaxÂ® Design 2009 and Daysim 3.0. LEUKOS - Journal of Illuminating Engineering Society of North America, 2009, 6, 7-35.	1.5	99
13	Comparison of four building archetype characterization methods in urban building energy modeling (UBEM): A residential case study in Kuwait City. Energy and Buildings, 2017, 154, 321-334.	3.1	87
14	Shoeboxer: An algorithm for abstracted rapid multi-zone urban building energy model generation and simulation. Energy and Buildings, 2017, 140, 140-153.	3.1	85
15	Dynamic annual daylight simulations based on one-hour and one-minute means of irradiance data. Solar Energy, 2002, 72, 385-395.	2.9	68
16	Evaluating assumptions of scales for subjective assessment of thermal environments â€“ Do laypersons perceive them the way, we researchers believe?. Energy and Buildings, 2020, 211, 109761.	3.1	68
17	Development of a simulation-based decision support workflow for the implementation of Building-Integrated Agriculture (BIA) in urban contexts. Journal of Cleaner Production, 2017, 147, 589-602.	4.6	67
18	Putting rooftops to use â€“ A Cost-Benefit Analysis of food production vs. energy generation under Mediterranean climates. Cities, 2018, 78, 166-179.	2.7	54

#	Article	IF	Citations
19	A methodology for auto-calibrating urban building energy models using surrogate modeling techniques. Journal of Building Performance Simulation, 2019, 12, 1-16.	1.0	51
20	Autozoner: an algorithm for automatic thermal zoning of buildings with unknown interior space definitions. Journal of Building Performance Simulation, 2016, 9, 176-189.	1.0	50
21	The Use of Multi-detail Building Archetypes in Urban Energy Modelling. Energy Procedia, 2017, 111, 817-825.	1.8	47
22	Current daylighting design practice: a survey. Building Research and Information, 2008, 36, 159-174.	2.0	46
23	Experimental validation of ray tracing as a means of image-based visual discomfort prediction. Building and Environment, 2017, 113, 131-150.	3.0	46
24	Predicting the Daylit Areaâ€"A Comparison of Students Assessments and Simulations at Eleven Schools of Architecture. LEUKOS - Journal of Illuminating Engineering Society of North America, 2014, 10, 193-206.	1.5	45
25	Simulation-based analysis of the use of PCM-wallboards to reduce cooling energy demand and peak-loads in low-rise residential heavyweight buildings in Kuwait. Building Simulation, 2017, 10, 481-495.	3.0	41
26	A Concept for Predicting Occupantsâ€™ Long-Term Visual Comfort within Daylit Spaces. LEUKOS - Journal of Illuminating Engineering Society of North America, 2016, 12, 185-202.	1.5	40
27	A framework for using calibrated campus-wide building energy models for continuous planning and greenhouse gas emissions reduction tracking. Applied Energy, 2019, 241, 82-97.	5.1	32
28	Simulation-based daylighting analysis procedure for developing urban zoning rules. Building Research and Information, 2017, 45, 478-491.	2.0	30
29	A comparison of two modeling approaches for establishing and implementing energy use reduction targets for a university campus. Energy and Buildings, 2018, 173, 103-116.	3.1	27
30	UBEM.io: A web-based framework to rapidly generate urban building energy models for carbon reduction technology pathways. Sustainable Cities and Society, 2022, 77, 103534.	5.1	27
31	Daylightingâ€"Light, form, and people. Energy and Buildings, 2006, 38, 715-717.	3.1	24
32	Learning by playing â€“ teaching energy simulation as a game. Journal of Building Performance Simulation, 2012, 5, 359-368.	1.0	23
33	Development of view potential metrics and the financial impact of views on office rents. Landscape and Urban Planning, 2021, 215, 104193.	3.4	23
34	Analysis of a simplified calibration procedure for 18 design-phase building energy models. Journal of Building Performance Simulation, 2016, 9, 17-29.	1.0	22
35	Assessing Disability Glare Potential of Reflections from New Construction. Transportation Research Record, 2014, 2449, 114-122.	1.0	20
36	Life cycle building impact of a Middle Eastern residential neighborhood. Energy, 2017, 134, 336-348.	4.5	20

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37	Balancing demand and supply: Linking neighborhood-level building load calculations with detailed district energy network analysis models. Energy, 2018, 150, 913-925.	4.5	20
38	Effects of real-time simulation feedback on design for visual comfort. Journal of Building Performance Simulation, 2019, 12, 343-361.	1.0	20
39	Opinion: Climate-based daylighting metrics in LEEDv4 â€“ A fragile progress. Lighting Research and Technology, 2015, 47, 388-388.	1.2	19
40	The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. Scientific Data, 2019, 6, 289.	2.4	19
41	Lightswitch-2002: a model for manual and automated control of electric lighting and blinds. Solar Energy, 2004, 77, 15-15.	2.9	16
42	Window View Quality: Why It Matters and What We Should Do. LEUKOS - Journal of Illuminating Engineering Society of North America, 2022, 18, 259-267.	1.5	14
43	Solar zoning and energy in detached dwellings. Environment and Planning B: Planning and Design, 2013, 40, 801-813.	1.7	12
44	Assessing future climate change and energy price scenarios: institutional building investment. Building Research and Information, 2013, 41, 209-222.	2.0	6
45	Photon mapping of geometrically complex glass structures: Methods and experimental evaluation. Building and Environment, 2020, 180, 106957.	3.0	4
46	â€œWHATâ€™S THE CARBON CONTENT OF YOUR FOOD?â€• DEVELOPMENT OF AN INTERACTIVE ONLINE FOODPRINT SIMULATOR. , 2020, , .		3