Vishal Garg

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.

38 papers	715 citations	14 h-index	26 g-index
41 ext. papers	882 ext. citations	4.4 avg, IF	4.4 L-index

#	Paper	IF	Citations
38	Adaptive thermal comfort model based on field studies in five climate zones across India. *Building and Environment*, **2022**, 219, 109187	6.5	1
37	Thermal Comfort Analysis of Personalized Conditioning System and Performance Assessment with Different Radiant Cooling Systems. *Energy and Built Environment*, **2021**,	6.3	1
36	Impact of urban heat island formation on energy consumption in Delhi. *Urban Climate*, **2021**, 36, 100763	6.8	8
35	Effect of Surface Temperature on Energy Consumption in a Calibrated Building: A Case Study of Delhi. *Climate*, **2020**, 8, 71	3.1	6
34	Evaluation of thermally activated furniture on thermal comfort and energy consumption: An experimental study. *Energy and Buildings*, **2020**, 223, 110154	7	2
33	Meta-study of residential energy studies in India. *IOP Conference Series: Earth and Environmental Science*, **2020**, 410, 012017	0.3	1
32	Review of studies on thermal comfort in Indian residential buildings. *Science and Technology for the Built Environment*, **2020**, 26, 727-748	1.8	17
31	Evaluating assumptions of scales for subjective assessment of thermal environments Do laypersons perceive them the way, we researchers believe?. *Energy and Buildings*, **2020**, 211, 109761	7	34
30	Optimal Control of Operable Windows for Mixed Mode Building Simulation in EnergyPlus. *IOP Conference Series: Earth and Environmental Science*, **2019**, 238, 012052	0.3	1
29	Circadian lighting in a space daylit by a tubular daylight device. *IOP Conference Series: Earth and Environmental Science*, **2019**, 238, 012030	0.3	
28	Explainable Clustering Using Hyper-Rectangles for Building Energy Simulation Data. *IOP Conference Series: Earth and Environmental Science*, **2019**, 238, 012068	0.3	2
27	Very Short-Term HVAC Cooling Energy Forecasting for an Educational Building in Real-Time.. *IOP Conference Series: Earth and Environmental Science*, **2019**, 238, 012069	0.3	3
26	The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. *Scientific Data*, **2019**, 6, 289	8.2	12
25	An approach to calculate the equivalent solar heat gain coefficient of glass windows with fixed and dynamic shading in tropical climates. *Journal of Building Engineering*, **2019**, 22, 90-100	5.2	8
24	Development of reference building models for India. *Journal of Building Engineering*, **2019**, 21, 267-277	5.2	15
23	Development of a surrogate model by extracting top characteristic feature vectors for building energy prediction. *Journal of Building Engineering*, **2019**, 23, 38-52	5.2	7
22	A review of advances for thermal and visual comfort controls in personal environmental control (PEC) systems. *Intelligent Buildings International*, **2019**, 11, 75-104	1.7	21

21	Determining base temperature for heating and cooling degree-days for India. *Journal of Building Engineering*, **2018**, 18, 270-280	5.2	22
20	A review of open loop control strategies for shades, blinds and integrated lighting by use of real-time daylight prediction methods. *Building and Environment*, **2018**, 135, 352-364	6.5	49
19	Machine Learning-Based Occupancy Estimation Using Multivariate Sensor Nodes **2018**,		8
18	Development for cool roof calculator for India. *Energy and Buildings*, **2016**, 114, 136-142	7	13
17	Assessment of the impact of cool roofs in rural buildings in India. *Energy and Buildings*, **2016**, 114, 156-163	7	23
16	Evaluation of "Autotune" calibration against manual calibration of building energy models. *Applied Energy*, **2016**, 182, 115-134	10.7	57
15	Optimizing roof insulation for roofs with high albedo coating and radiant barriers in India. *Journal of Building Engineering*, **2015**, 2, 52-58	5.2	22
14	Development and analysis of a tool for speed up of EnergyPlus through parallelization. *Journal of Building Performance Simulation*, **2014**, 7, 179-191	2.8	5
13	Experimental determination of comfort benefits from cool-roof application to an un-conditioned building in India. *Advances in Building Energy Research*, **2014**, 8, 14-27	1.8	8
12	Effect of building envelope on thermal environmental conditions of a naturally ventilated building block in tropical climate. *Building Services Engineering Research and Technology*, **2014**, 35, 280-295	2.3	12
11	Thermal performance analysis of solar clothes dryer. *Journal of Renewable and Sustainable Energy*, **2013**, 5, 043113	2.5	1
10	Evaluation of thermal environmental conditions and thermal perception at naturally ventilated hostels of undergraduate students in composite climate. *Building and Environment*, **2013**, 66, 42-53	6.5	43
9	Combined effect of energy efficiency measures and thermal adaptation on air conditioned building in warm climatic conditions of India. *Energy and Buildings*, **2012**, 55, 351-360	7	35
8	Quantifying the direct benefits of cool roofs in an urban setting: Reduced cooling energy use and lowered greenhouse gas emissions. *Building and Environment*, **2012**, 48, 1-6	6.5	97
7	Top-of-atmosphere radiative cooling with white roofs: experimental verification and model-based evaluation. *Environmental Research Letters*, **2012**, 7, 044007	6.2	6
6	Calibrated simulation for estimating energy savings by the use of cool roof in five Indian climatic zones. *Journal of Renewable and Sustainable Energy*, **2011**, 3, 023108	2.5	23
5	Development and performance evaluation of a methodology, based on distributed computing, for speeding EnergyPlus simulation. *Journal of Building Performance Simulation*, **2011**, 4, 257-270	2.8	9
4	EnergyPlus Simulation Speedup Using Data Parallelization Concept **2010**,		7

3	SMEO: A Platform for Smart Classrooms with Enhanced Information Access and Operations Automation. *Lecture Notes in Computer Science*, **2010**, 123-134	0.9	2
2	Smart occupancy sensors to reduce energy consumption. *Energy and Buildings*, **2000**, 32, 81-87	7	132
1	Using Cool Roofs to Reduce Energy Use, Greenhouse Gas Emissions, and Urban Heat-island Effects: Findings from an India Experiment		2