

# Paulo Cesar Tabares-Velasco

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,083  
citations

516561

16  
h-index

526166

27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Verification and validation of EnergyPlus phase change material model for opaque wall assemblies. <i>Building and Environment</i> , 2012, 54, 186-196.	3.0	286
2	A heat transfer model for assessment of plant based roofing systems in summer conditions. <i>Building and Environment</i> , 2012, 49, 310-323.	3.0	114
3	Parametric analysis of a residential building with phase change material (PCM)-enhanced drywall, precooling, and variable electric rates in a hot and dry climate. <i>Applied Energy</i> , 2018, 222, 497-514.	5.1	69
4	Effects of plant and substrate selection on thermal performance of green roofs during the summer. <i>Building and Environment</i> , 2014, 78, 199-211.	3.0	67
5	Development and validation of an HVAC on/off controller in EnergyPlus for energy simulation of residential and small commercial buildings. <i>Energy and Buildings</i> , 2019, 183, 467-483.	3.1	63
6	Experimental quantification of heat and mass transfer process through vegetated roof samples in a new laboratory setup. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 5149-5162.	2.5	54
7	Diagnostic test cases for verifying surface heat transfer algorithms and boundary conditions in building energy simulation programs. <i>Journal of Building Performance Simulation</i> , 2012, 5, 329-346.	1.0	49
8	Influence of vegetation, substrate, and thermal insulation of an extensive vegetated roof on the thermal performance of retail stores in semiarid and marine climates. <i>Energy and Buildings</i> , 2017, 146, 312-321.	3.1	49
9	Validation of predictive heat and mass transfer green roof model with extensive green roof field data. <i>Ecological Engineering</i> , 2012, 47, 165-173.	1.6	46
10	A critical review of heat and mass transfer in vegetative roof models used in building energy and urban environment simulation tools. <i>Applied Energy</i> , 2018, 232, 752-764.	5.1	36
11	A modeling framework for optimization-based control of a residential building thermostat for time-of-use pricing. <i>Applied Energy</i> , 2019, 242, 1346-1357.	5.1	36
12	Empirical validation and comparison of PCM modeling algorithms commonly used in building energy and hygrothermal software. <i>Building and Environment</i> , 2020, 173, 106750.	3.0	34
13	A simulation approach to sizing batteries for integration with net-zero energy residential buildings. <i>Renewable Energy</i> , 2019, 139, 176-185.	4.3	28
14	Design and dispatch optimization of packaged ice storage systems within a connected community. <i>Applied Energy</i> , 2021, 298, 117147.	5.1	26
15	Empirical validation and comparison of methodologies to simulate micro and macro-encapsulated PCMs in the building envelope. <i>Applied Thermal Engineering</i> , 2021, 188, 116646.	3.0	20
16	Energy and hygrothermal performance of cross laminated timber single-family homes subjected to constant and variable electric rates. <i>Journal of Building Engineering</i> , 2019, 25, 100784.	1.6	18
17	Electric demand minimization of existing district chiller plants with rigid or flexible thermal demand. <i>Applied Energy</i> , 2021, 289, 116664.	5.1	13
18	Experimental apparatus and methodology to test and quantify thermal performance of micro and macro-encapsulated phase change materials in building envelope applications. <i>Journal of Energy Storage</i> , 2020, 32, 101770.	3.9	12

#	ARTICLE	IF	CITATIONS
19	Rapid visualization of the potential residential cost savings from energy storage under time-of-use electric rates. <i>Journal of Building Performance Simulation</i> , 2019, 12, 68-81.	1.0	9
20	Renewable energy analysis in indigenous communities using bottom-up demand prediction. <i>Sustainable Cities and Society</i> , 2021, 71, 102932.	5.1	9
21	Energy and cost assessment of packaged ice energy storage implementations using OpenStudio Measures. <i>Energy and Buildings</i> , 2021, 248, 111189.	3.1	9
22	End-User-Aware Community Energy Management in a Distribution System Exposed to Extreme Temperatures. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 3753-3764.	6.2	8
23	Analysis and comparison of two vegetative roof heat and mass transfer models in three different climates. <i>Energy and Buildings</i> , 2019, 202, 109367.	3.1	7
24	Building control virtual test bed and functional mock-up interface standard: comparison in the context of campus energy modelling and control. <i>Journal of Building Performance Simulation</i> , 2020, 13, 456-471.	1.0	5
25	An analytical method for identifying synergies between behind-the-meter battery and thermal energy storage. <i>Journal of Energy Storage</i> , 2022, 50, 104216.	3.9	5
26	Energy Impacts of Nonlinear Behavior of PCM When Applied Into Building Envelope. , 2012, , .		4
27	Energy Impacts of Nonlinear Behavior of Phase Change Materials When Applied to Opaque Building Envelopes. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014, 136, .	1.1	3
28	Study on the performance of thermal energy of a classroom built with natural materials. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 0, , 1-16.	0.5	2
29	Comparison of data-driven statistical techniques for cooling demand modelling of electric chiller plants in commercial districts. <i>Journal of Building Performance Simulation</i> , 0, , 1-23.	1.0	1
30	Long-Term Moisture Monitoring Results of an Eight-Story Mass Timber Building in the Pacific Northwest. <i>Journal of Architectural Engineering</i> , 2021, 27, 06021002.	0.8	1