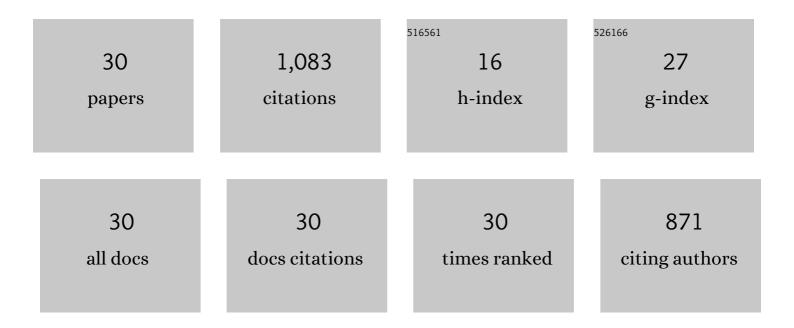
Paulo Cesar Tabares-Velasco

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Verification and validation of EnergyPlus phase change material model for opaque wall assemblies. Building and Environment, 2012, 54, 186-196.	3.0	286
2	A heat transfer model for assessment of plant based roofing systems in summer conditions. Building and Environment, 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. Applied Energy, 2018, 222, 497-514.	5.1	69
4	Effects of plant and substrate selection on thermal performance of green roofs during the summer. Building and Environment, 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. Energy and Buildings, 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. International Journal of Heat and Mass Transfer, 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. Journal of Building Performance Simulation, 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. Energy and Buildings, 2017, 146, 312-321.	3.1	49
9	Validation of predictive heat and mass transfer green roof model with extensive green roof field data. Ecological Engineering, 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. Applied Energy, 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. Applied Energy, 2019, 242, 1346-1357.	5.1	36
12	Empirical validation and comparison of PCM modeling algorithms commonly used in building energy and hygrothermal software. Building and Environment, 2020, 173, 106750.	3.0	34
13	A simulation approach to sizing batteries for integration with net-zero energy residential buildings. Renewable Energy, 2019, 139, 176-185.	4.3	28
14	Design and dispatch optimization of packaged ice storage systems within a connected community. Applied Energy, 2021, 298, 117147.	5.1	26
15	Empirical validation and comparison of methodologies to simulate micro and macro-encapsulated PCMs in the building envelope. Applied Thermal Engineering, 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. Journal of Building Engineering, 2019, 25, 100784.	1.6	18
17	Electric demand minimization of existing district chiller plants with rigid or flexible thermal demand. Applied Energy, 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. Journal of Energy Storage, 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. Journal of Building Performance Simulation, 2019, 12, 68-81.	1.0	9
20	Renewable energy analysis in indigenous communities using bottom-up demand prediction. Sustainable Cities and Society, 2021, 71, 102932.	5.1	9
21	Energy and cost assessment of packaged ice energy storage implementations using OpenStudio Measures. Energy and Buildings, 2021, 248, 111189.	3.1	9
22	End-User-Aware Community Energy Management in a Distribution System Exposed to Extreme Temperatures. IEEE Transactions on Smart Grid, 2019, 10, 3753-3764.	6.2	8
23	Analysis and comparison of two vegetative roof heat and mass transfer models in three different climates. Energy and Buildings, 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. Journal of Building Performance Simulation, 2020, 13, 456-471.	1.0	5
25	An analytical method for identifying synergies between behind-the-meter battery and thermal energy storage, Journal of Energy Storage, 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. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.1	3
28	Study on the performance of thermal energy of a classroom built with natural materials. Proceedings of Institution of Civil Engineers: Energy, 0, , 1-16.	0.5	2
29	Comparison of data-driven statistical techniques for cooling demand modelling of electric chiller plants in commercial districts. Journal of Building Performance Simulation, 0, , 1-23.	1.0	1
30	Long-Term Moisture Monitoring Results of an Eight-Story Mass Timber Building in the Pacific Northwest. Journal of Architectural Engineering, 2021, 27, 06021002.	0.8	1