

# Nelson Soares

## List of Publications by Citations

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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.

25  
papers

1,371  
citations

16  
h-index

25  
g-index

25  
ext. papers

1,644  
ext. citations

6.9  
avg, IF

4.93  
L-index

#	Paper	IF	Citations
25	Review of passive PCM latent heat thermal energy storage systems towards buildings energy efficiency. <i>Energy and Buildings</i> , <b>2013</b> , 59, 82-103	7	610
24	A review on current advances in the energy and environmental performance of buildings towards a more sustainable built environment. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 77, 845-860	16.2	119
23	Experimental testing and numerical modelling of masonry wall solution with PCM incorporation: A passive construction solution. <i>Energy and Buildings</i> , <b>2012</b> , 49, 235-245	7	119
22	Multi-dimensional optimization of the incorporation of PCM-drywalls in lightweight steel-framed residential buildings in different climates. <i>Energy and Buildings</i> , <b>2014</b> , 70, 411-421	7	98
21	Energy efficiency and thermal performance of lightweight steel-framed (LSF) construction: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 78, 194-209	16.2	66
20	Laboratory and in-situ non-destructive methods to evaluate the thermal transmittance and behavior of walls, windows, and construction elements with innovative materials: A review. <i>Energy and Buildings</i> , <b>2019</b> , 182, 88-110	7	50
19	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. <i>Building Simulation</i> , <b>2017</b> , 10, 481-495 <sup>3,9</sup>	3.9	33
18	Experimental evaluation of the heat transfer through small PCM-based thermal energy storage units for building applications. <i>Energy and Buildings</i> , <b>2016</b> , 116, 18-34	7	32
17	Energy efficiency of higher education buildings: a case study. <i>International Journal of Sustainability in Higher Education</i> , <b>2015</b> , 16, 669-691	3.9	32
16	The challenging paradigm of interrelated energy systems towards a more sustainable future. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 95, 171-193	16.2	26
15	Experimental study of the heat transfer through a vertical stack of rectangular cavities filled with phase change materials. <i>Applied Energy</i> , <b>2015</b> , 142, 192-205	10.7	26
14	An integrated energy performance-driven generative design methodology to foster modular lightweight steel framed dwellings in hot climates. <i>Energy for Sustainable Development</i> , <b>2018</b> , 44, 21-36	5.4	25
13	Assessment of an earth-air heat exchanger (EAHE) system for residential buildings in warm-summer Mediterranean climate. <i>Sustainable Energy Technologies and Assessments</i> , <b>2020</b> , 38, 100649	4.7	24
12	Thermal transmittance of lightweight steel framed walls: Experimental versus numerical and analytical approaches. <i>Journal of Building Engineering</i> , <b>2019</b> , 25, 100776	5.2	21
11	Numerical evaluation of a phase change material-chutter using solar energy for winter nighttime indoor heating. <i>Journal of Building Physics</i> , <b>2014</b> , 37, 367-394	2.6	17
10	Validation of different numerical models with benchmark experiments for modelling microencapsulated-PCM-based applications for buildings. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 159, 106565	4.1	17
9	The potential impact of low thermal transmittance construction on the European design guidelines of residential buildings. <i>Energy and Buildings</i> , <b>2018</b> , 178, 379-390	7	10

8	Numerical Simulation of a PCM Shutter for Buildings Space Heating During the Winter <b>2011</b> ,		10
7	Can movable PCM-filled TES units be used to improve the performance of PV panels? Overview and experimental case-study. <i>Energy and Buildings</i> , <b>2020</b> , 210, 109743	7	10
6	Up-To-Date Challenges for the Conservation, Rehabilitation and Energy Retrofitting of Higher Education Cultural Heritage Buildings. <i>Sustainability</i> , <b>2021</b> , 13, 2061	3.6	8
5	Life cycle assessment of a south European house addressing building design options for orientation, window sizing and building shape. <i>Journal of Building Engineering</i> , <b>2021</b> , 39, 102276	5.2	6
4	Advances in standalone and hybrid earth-air heat exchanger (EAHE) systems for buildings: A review. <i>Energy and Buildings</i> , <b>2021</b> , 111532	7	6
3	Prefabricated versus conventional construction: Comparing life-cycle impacts of alternative structural materials. <i>Journal of Building Engineering</i> , <b>2021</b> , 41, 102705	5.2	5
2	Advancements in nano-enabled cement and concrete: Innovative properties and environmental implications. <i>Journal of Building Engineering</i> , <b>2022</b> , 104736	5.2	1
1	Integrated life cycle assessment of a southern European house addressing different design, construction solutions, operational patterns, and heating systems. <i>Energy Reports</i> , <b>2022</b> , 8, 526-532	4.6	0