Nelson Soares

List of Publications by Year in Descending Order

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	Integrated life cycle assessment of a southern European house addressing different design, construction solutions, operational patterns, and heating systems. *Energy Reports*, **2022**, 8, 526-532	4.6	0
24	Advancements in nano-enabled cement and concrete: Innovative properties and environmental implications. *Journal of Building Engineering*, **2022**, 104736	5.2	1
23	Life cycle assessment of a south European house addressing building design options for orientation, window sizing and building shape. *Journal of Building Engineering*, **2021**, 39, 102276	5.2	6
22	Validation of different numerical models with benchmark experiments for modelling microencapsulated-PCM-based applications for buildings. *International Journal of Thermal Sciences*, **2021**, 159, 106565	4.1	17
21	Up-To-Date Challenges for the Conservation, Rehabilitation and Energy Retrofitting of Higher Education Cultural Heritage Buildings. *Sustainability*, **2021**, 13, 2061	3.6	8
20	Advances in standalone and hybrid earth-air heat exchanger (EAHE) systems for buildings: A review. *Energy and Buildings*, **2021**, 111532	7	6
19	Prefabricated versus conventional construction: Comparing life-cycle impacts of alternative structural materials. *Journal of Building Engineering*, **2021**, 41, 102705	5.2	5
18	Assessment of an earth-air heat exchanger (EAHE) system for residential buildings in warm-summer Mediterranean climate. *Sustainable Energy Technologies and Assessments*, **2020**, 38, 100649	4.7	24
17	Can movable PCM-filled TES units be used to improve the performance of PV panels? Overview and experimental case-study. *Energy and Buildings*, **2020**, 210, 109743	7	10
16	Thermal transmittance of lightweight steel framed walls: Experimental versus numerical and analytical approaches. *Journal of Building Engineering*, **2019**, 25, 100776	5.2	21
15	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. *Energy and Buildings*, **2019**, 182, 88-110	7	50
14	An integrated energy performance-driven generative design methodology to foster modular lightweight steel framed dwellings in hot climates. *Energy for Sustainable Development*, **2018**, 44, 21-36	5.4	25
13	The challenging paradigm of interrelated energy systems towards a more sustainable future. *Renewable and Sustainable Energy Reviews*, **2018**, 95, 171-193	16.2	26
12	The potential impact of low thermal transmittance construction on the European design guidelines of residential buildings. *Energy and Buildings*, **2018**, 178, 379-390	7	10
11	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	3.9	33
10	A review on current advances in the energy and environmental performance of buildings towards a more sustainable built environment. *Renewable and Sustainable Energy Reviews*, **2017**, 77, 845-860	16.2	119
9	Energy efficiency and thermal performance of lightweight steel-framed (LSF) construction: A review. *Renewable and Sustainable Energy Reviews*, **2017**, 78, 194-209	16.2	66

8	Experimental evaluation of the heat transfer through small PCM-based thermal energy storage units for building applications. *Energy and Buildings*, **2016**, 116, 18-34	7	32
7	Energy efficiency of higher education buildings: a case study. *International Journal of Sustainability in Higher Education*, **2015**, 16, 669-691	3.9	32
6	Experimental study of the heat transfer through a vertical stack of rectangular cavities filled with phase change materials. *Applied Energy*, **2015**, 142, 192-205	10.7	26
5	Numerical evaluation of a phase change material shutter using solar energy for winter nighttime indoor heating. *Journal of Building Physics*, **2014**, 37, 367-394	2.6	17
4	Multi-dimensional optimization of the incorporation of PCM-drywalls in lightweight steel-framed residential buildings in different climates. *Energy and Buildings*, **2014**, 70, 411-421	7	98
3	Review of passive PCM latent heat thermal energy storage systems towards buildings energy efficiency. *Energy and Buildings*, **2013**, 59, 82-103	7	610
2	Experimental testing and numerical modelling of masonry wall solution with PCM incorporation: A passive construction solution. *Energy and Buildings*, **2012**, 49, 235-245	7	119
1	Numerical Simulation of a PCM Shutter for Buildings Space Heating During the Winter **2011**,		10