

Nelson Soares

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,928
citations

430874
18
h-index

610901
24
g-index

25
all docs

25
docs citations

25
times ranked

1803
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of passive PCM latent heat thermal energy storage systems towards buildings' energy efficiency. Energy and Buildings, 2013, 59, 82-103.	6.7	785
2	Experimental testing and numerical modelling of masonry wall solution with PCM incorporation: A passive construction solution. Energy and Buildings, 2012, 49, 235-245.	6.7	167
3	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.	16.4	151
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.	6.7	132
5	Energy efficiency and thermal performance of lightweight steel-framed (LSF) construction: A review. Renewable and Sustainable Energy Reviews, 2017, 78, 194-209.	16.4	92
6	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.	6.7	80
7	Energy efficiency of higher education buildings: a case study. International Journal of Sustainability in Higher Education, 2015, 16, 669-691.	3.1	52
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.	6.7	49
9	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.	5.6	41
10	Validation of different numerical models with benchmark experiments for modelling microencapsulated-PCM-based applications for buildings. International Journal of Thermal Sciences, 2021, 159, 106565.	4.9	38
11	The challenging paradigm of interrelated energy systems towards a more sustainable future. Renewable and Sustainable Energy Reviews, 2018, 95, 171-193.	16.4	36
12	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.	2.7	36
13	Experimental study of the heat transfer through a vertical stack of rectangular cavities filled with phase change materials. Applied Energy, 2015, 142, 192-205.	10.1	35
14	Thermal transmittance of lightweight steel framed walls: Experimental versus numerical and analytical approaches. Journal of Building Engineering, 2019, 25, 100776.	3.4	33
15	Advances in standalone and hybrid earth-air heat exchanger (EAHE) systems for buildings: A review. Energy and Buildings, 2021, 253, 111532.	6.7	33
16	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.	4.5	32
17	Prefabricated versus conventional construction: Comparing life-cycle impacts of alternative structural materials. Journal of Building Engineering, 2021, 41, 102705.	3.4	29
18	Numerical evaluation of a phase change material "shutter" using solar energy for winter nighttime indoor heating. Journal of Building Physics, 2014, 37, 367-394.	2.4	21

#	ARTICLE	IF	CITATIONS
19	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.	6.7	19
20	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.	3.4	18
21	Up-To-Date Challenges for the Conservation, Rehabilitation and Energy Retrofitting of Higher Education Cultural Heritage Buildings. Sustainability, 2021, 13, 2061.	3.2	15
22	The potential impact of low thermal transmittance construction on the European design guidelines of residential buildings. Energy and Buildings, 2018, 178, 379-390.	6.7	12
23	Numerical Simulation of a PCM Shutter for Buildings Space Heating During the Winter. , 2011, , .		10
24	Advancements in nano-enabled cement and concrete: Innovative properties and environmental implications. Journal of Building Engineering, 2022, 56, 104736.	3.4	7
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.	5.1	5