Maria Del Rosario Heras Celemin

List of Publications by Year
in descending order

44 papers	1,001 citations	331670 21 h-index	434195 31 g-index
45 all docs	45 docs citations	45 times ranked	895 citing authors

#	Article	IF	Citations
1	Mathematical models of solar chimneys with a phase change material for ventilation of buildings: A review using global energy balance. Energy, 2019, 170, 683-708.	8.8	42
2	Dynamic energy assessment to analyze different refurbishment strategies of existing dwellings placed in Madrid. Energy, 2018, 152, 1011-1023.	8.8	15
3	Towards non-intrusive thermal load Monitoring of buildings: BES calibration. Applied Energy, 2017, 191, 44-54.	10.1	28
4	Experimental evaluation of the airflow behaviour in horizontal and vertical Open Joint Ventilated Facades using Stereo-PIV. Renewable Energy, 2017, 109, 613-623.	8.9	25
5	Empirical estimation of the climatic representativeness in two different areas: desert and Mediterranean climates. Energy Procedia, 2017, 122, 829-834.	1.8	14
6	New simulation platform for the rehabilitation of residential buildings in Madrid. Energy Procedia, 2017, 122, 817-822.	1.8	10
7	Energy performance assessment of a polygeneration plant in different weather conditions through simulation tools. Energy and Buildings, 2016, 124, 7-18.	6.7	22
8	Comparative thermal study between conventional and bioclimatic office buildings. Building and Environment, 2016, 105, 95-103.	6.9	22
9	Solar Forecasting Requirements for Buildings MPC. Energy Procedia, 2016, 91, 1024-1032.	1.8	10
10	Modelling and experimental analysis of three radioconvective panels for night cooling. Energy and Buildings, 2015, 107, 37-48.	6.7	30
11	Energetic experimental evaluation of the active systems of the RDB building 70 of the SSP-ARFRISOL. Energy and Buildings, 2015, 87, 272-281.	6.7	3
12	Dynamic integrated method based on regression and averages, applied to estimate the thermal parameters of a room in an occupied office building in Madrid. Energy and Buildings, 2014, 81, 337-362.	6.7	32
13	Evaluating rehabilitation of the social housing envelope: Experimental assessment of thermal indoor improvements during actual operating conditions in dry hot climate, a case study. Energy and Buildings, 2014, 75, 264-271.	6.7	32
14	Thermal comfort evaluation in a mechanically ventilated office building located in a continental climate. Energy and Buildings, 2014, 81, 424-429.	6.7	21
15	A Simulation of the Thermal Performance of a Small Solar Chimney Already Installed in a Building. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.8	21
16	Experimental assessment of the performance of open joint ventilated faÃ§ades with buoyancy-driven airflow. Solar Energy, 2013, 91, 131-144.	6.1	19
17	Ground reflectance estimation by means of horizontal and vertical radiation measurements. Solar Energy, 2012, 86, 3216-3226.	6.1	12
18	Experimental assessment and modelling of the performance of an open joint ventilated faÃ§ade during actual operating conditions in Mediterranean climate. Energy and Buildings, 2012, 54, 363-375.	6.7	42

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19	Analysis of capabilities and limitations of the regression method based in averages, applied to the estimation of the U value of building component tested in Mediterranean weather. Energy and Buildings, 2012, 55, 854-872.	6.7	22
20	Analysis of a Solar Office Building at the South of Spain Through Simulation Model Calibration. Energy Procedia, 2012, 30, 580-589.	1.8	7
21	Experimental PIV Techniques Applied to the Analysis of Natural Convection in Open Joint Ventilated Facades. Energy Procedia, 2012, 30, 1216-1225.	1.8	12
22	Comfort Evaluation in an Urban Boulevard by Means of Evaporative Wind Towers. Energy Procedia, 2012, 30, 1226-1232.	1.8	3
23	Energy performance evaluation of an evaporative wind tower. Solar Energy, 2012, 86, 1396-1410.	6.1	21
24	Development and experimental validation of a simulation model for open joint ventilated faÃ§ades. Energy and Buildings, 2011, 43, 3446-3456.	6.7	35
25	Thermal conditioning for urban outdoor spaces through the use of evaporative wind towers. Building and Environment, 2011, 46, 2520-2528.	6.9	24
26	Experimental analysis of natural convection in open joint ventilated faÃ§ades with 2D PIV. Building and Environment, 2011, 46, 2314-2325.	6.9	35
27	Comparative study of internal storage and external storage absorption cooling systems. Renewable Energy, 2011, 36, 1645-1651.	8.9	13
28	Theoretical model to estimate the thermal performance of an evaporative wind tower placed in an open space. Renewable Energy, 2011, 36, 3023-3030.	8.9	17
29	A Simulation of the Thermal Performance of a Small Solar Chimney Already Installed in a Building. , 2010, , .		1
30	A TRNSYS Simulation and Experimental Comparison of the Thermal Behavior of a Building Located in Desert Climate. , 2010, , .		2
31	Optimization of a solar cooling system with interior energy storage. Solar Energy, 2010, 84, 1244-1254.	6.1	26
32	Thermal Performance of a Natural Ventilation System. , 2010, , .		1
33	Application of different dynamic analysis approaches to the estimation of the building component U value. Building and Environment, 2009, 44, 361-367.	6.9	40
34	Experimental study for natural ventilation on a solar chimney. Renewable Energy, 2009, 34, 2928-2934.	8.9	146
35	A Parametric Study of Conjugate Heat Transfer of Solar Chimney. , 2009, , .		1
36	Estimation of building component UA and gA from outdoor tests in warm and moderate weather conditions. Solar Energy, 2008, 82, 573-587.	6.1	30

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37	Dynamic physical model for a solar chimney. Solar Energy, 2007, 81, 614-622.	6.1	48
38	Energetic analysis of a passive solar design, incorporated in a courtyard after refurbishment, using an innovative cover component based in a sawtooth roof concept. Solar Energy, 2005, 78, 85-96.	6.1	23
39	Application of multi-output ARX models for estimation of the U and g values of building components in outdoor testing. Solar Energy, 2005, 79, 302-310.	6.1	33
40	Thermal performance of an air solar collector with an absorber plate made of recyclable aluminum cans. Solar Energy, 2004, 77, 107-113.	6.1	61
41	Proposal for the Extension of the NBE-CT-79. , 1990, , 423-425.		0
42	Calibration of the Spanish Solar Test Cells. , 1990, , 307-309.		0
43	Typology Energy Simulation in Spanish Vernacular Architecture. , 1990, , 450-452.		0
44	Specification, Construction and Instrumentation of the Spanish Solar Test Cells. , 1990, , 310-312.		0