

Maria Del Rosario Heras Celemin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1736278/publications.pdf>

Version: 2024-02-01

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	Experimental study for natural ventilation on a solar chimney. <i>Renewable Energy</i> , 2009, 34, 2928-2934.	8.9	146
2	Thermal performance of an air solar collector with an absorber plate made of recyclable aluminum cans. <i>Solar Energy</i> , 2004, 77, 107-113.	6.1	61
3	Dynamic physical model for a solar chimney. <i>Solar Energy</i> , 2007, 81, 614-622.	6.1	48
4	Experimental assessment and modelling of the performance of an open joint ventilated facade during actual operating conditions in Mediterranean climate. <i>Energy and Buildings</i> , 2012, 54, 363-375.	6.7	42
5	Mathematical models of solar chimneys with a phase change material for ventilation of buildings: A review using global energy balance. <i>Energy</i> , 2019, 170, 683-708.	8.8	42
6	Application of different dynamic analysis approaches to the estimation of the building component U value. <i>Building and Environment</i> , 2009, 44, 361-367.	6.9	40
7	Development and experimental validation of a simulation model for open joint ventilated facades. <i>Energy and Buildings</i> , 2011, 43, 3446-3456.	6.7	35
8	Experimental analysis of natural convection in open joint ventilated facades with 2D PIV. <i>Building and Environment</i> , 2011, 46, 2314-2325.	6.9	35
9	Application of multi-output ARX models for estimation of the U and g values of building components in outdoor testing. <i>Solar Energy</i> , 2005, 79, 302-310.	6.1	33
10	Dynamic integrated method based on regression and averages, applied to estimate the thermal parameters of a room in an occupied office building in Madrid. <i>Energy and Buildings</i> , 2014, 81, 337-362.	6.7	32
11	Evaluating rehabilitation of the social housing envelope: Experimental assessment of thermal indoor improvements during actual operating conditions in dry hot climate, a case study. <i>Energy and Buildings</i> , 2014, 75, 264-271.	6.7	32
12	Estimation of building component UA and gA from outdoor tests in warm and moderate weather conditions. <i>Solar Energy</i> , 2008, 82, 573-587.	6.1	30
13	Modelling and experimental analysis of three radioconvective panels for night cooling. <i>Energy and Buildings</i> , 2015, 107, 37-48.	6.7	30
14	Towards non-intrusive thermal load Monitoring of buildings: BES calibration. <i>Applied Energy</i> , 2017, 191, 44-54.	10.1	28
15	Optimization of a solar cooling system with interior energy storage. <i>Solar Energy</i> , 2010, 84, 1244-1254.	6.1	26
16	Experimental evaluation of the airflow behaviour in horizontal and vertical Open Joint Ventilated Facades using Stereo-PIV. <i>Renewable Energy</i> , 2017, 109, 613-623.	8.9	25
17	Thermal conditioning for urban outdoor spaces through the use of evaporative wind towers. <i>Building and Environment</i> , 2011, 46, 2520-2528.	6.9	24
18	Energetic analysis of a passive solar design, incorporated in a courtyard after refurbishment, using an innovative cover component based in a sawtooth roof concept. <i>Solar Energy</i> , 2005, 78, 85-96.	6.1	23

#	ARTICLE	IF	CITATIONS
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	Energy performance assessment of a polygeneration plant in different weather conditions through simulation tools. Energy and Buildings, 2016, 124, 7-18.	6.7	22
21	Comparative thermal study between conventional and bioclimatic office buildings. Building and Environment, 2016, 105, 95-103.	6.9	22
22	Energy performance evaluation of an evaporative wind tower. Solar Energy, 2012, 86, 1396-1410.	6.1	21
23	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
24	Thermal comfort evaluation in a mechanically ventilated office building located in a continental climate. Energy and Buildings, 2014, 81, 424-429.	6.7	21
25	Experimental assessment of the performance of open joint ventilated facades with buoyancy-driven airflow. Solar Energy, 2013, 91, 131-144.	6.1	19
26	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
27	Dynamic energy assessment to analyze different refurbishment strategies of existing dwellings placed in Madrid. Energy, 2018, 152, 1011-1023.	8.8	15
28	Empirical estimation of the climatic representativeness in two different areas: desert and Mediterranean climates. Energy Procedia, 2017, 122, 829-834.	1.8	14
29	Comparative study of internal storage and external storage absorption cooling systems. Renewable Energy, 2011, 36, 1645-1651.	8.9	13
30	Ground reflectance estimation by means of horizontal and vertical radiation measurements. Solar Energy, 2012, 86, 3216-3226.	6.1	12
31	Experimental PIV Techniques Applied to the Analysis of Natural Convection in Open Joint Ventilated Facades. Energy Procedia, 2012, 30, 1216-1225.	1.8	12
32	Solar Forecasting Requirements for Buildings MPC. Energy Procedia, 2016, 91, 1024-1032.	1.8	10
33	New simulation platform for the rehabilitation of residential buildings in Madrid. Energy Procedia, 2017, 122, 817-822.	1.8	10
34	Analysis of a Solar Office Building at the South of Spain Through Simulation Model Calibration. Energy Procedia, 2012, 30, 580-589.	1.8	7
35	Comfort Evaluation in an Urban Boulevard by Means of Evaporative Wind Towers. Energy Procedia, 2012, 30, 1226-1232.	1.8	3
36	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

#	ARTICLE	IF	CITATIONS
37	A TRNSYS Simulation and Experimental Comparison of the Thermal Behavior of a Building Located in Desert Climate. , 2010, , .		2
38	A Parametric Study of Conjugate Heat Transfer of Solar Chimney. , 2009, , .		1
39	A Simulation of the Thermal Performance of a Small Solar Chimney Already Installed in a Building. , 2010, , .		1
40	Thermal Performance of a Natural Ventilation System. , 2010, , .		1
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