

Marc Medrano

List of Publications by Year in descending order

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48
papers

5,155
citations

279701

23
h-index

315616

38
g-index

48
all docs

48
docs citations

48
times ranked

3959
citing authors

#	ARTICLE	IF	CITATIONS
1	State of the art on high temperature thermal energy storage for power generation. Part 1â€”Concepts, materials and modellization. Renewable and Sustainable Energy Reviews, 2010, 14, 31-55.	8.2	1,379
2	Use of microencapsulated PCM in concrete walls for energy savings. Energy and Buildings, 2007, 39, 113-119.	3.1	687
3	State of the art on high-temperature thermal energy storage for power generation. Part 2â€”Case studies. Renewable and Sustainable Energy Reviews, 2010, 14, 56-72.	8.2	553
4	Experimental study of using PCM in brick constructive solutions for passive cooling. Energy and Buildings, 2010, 42, 534-540.	3.1	426
5	Experimental evaluation of commercial heat exchangers for use as PCM thermal storage systems. Applied Energy, 2009, 86, 2047-2055.	5.1	351
6	Experimental study on the performance of insulation materials in Mediterranean construction. Energy and Buildings, 2010, 42, 630-636.	3.1	206
7	Natural convection heat transfer coefficients in phase change material (PCM) modules with external vertical fins. Applied Thermal Engineering, 2008, 28, 1676-1686.	3.0	168
8	Overview of thermal energy storage (TES) potential energy savings and climate change mitigation in Spain and Europe. Applied Energy, 2011, 88, 2764-2774.	5.1	154
9	Exergy analysis of multi-effect waterâ€”LiBr absorption systems: From half to triple effect. Renewable Energy, 2010, 35, 1773-1782.	4.3	139
10	Life Cycle Assessment of the inclusion of phase change materials (PCM) in experimental buildings. Energy and Buildings, 2010, 42, 1517-1523.	3.1	128
11	Dimensionless numbers used to characterize stratification in water tanks for discharging at low flow rates. Renewable Energy, 2010, 35, 2192-2199.	4.3	120
12	Integration of distributed generation systems into generic types of commercial buildings in California. Energy and Buildings, 2008, 40, 537-548.	3.1	102
13	Effect of microencapsulated phase change material in sandwich panels. Renewable Energy, 2010, 35, 2370-2374.	4.3	95
14	Double-lift absorption refrigeration cycles driven by lowâ€”temperature heat sources using organic fluid mixtures as working pairs. Applied Energy, 2001, 68, 173-185.	5.1	72
15	Experimental Study of PCM Inclusion in Different Building Envelopes. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.1	60
16	Absorption of water vapour in the falling film of waterâ€”lithium bromide inside a vertical tube at air-cooling thermal conditions. International Journal of Thermal Sciences, 2002, 41, 891-898.	2.6	57
17	Multi-objective optimization of thermal modelled cubicles considering the total cost and life cycle environmental impact. Energy and Buildings, 2015, 88, 335-346.	3.1	56
18	Improving thermal comfort of earthen dwellings in sub-Saharan Africa with passive design. Journal of Building Engineering, 2019, 24, 100732.	1.6	38

#	ARTICLE	IF	CITATIONS
19	Energetic and exergetic analysis of a domestic water tank with phase change material. International Journal of Energy Research, 2008, 32, 204-214.	2.2	36
20	Dynamic thermal performance of alveolar brick construction system. Energy Conversion and Management, 2011, 52, 2495-2500.	4.4	36
21	Design and performance of energy-efficient solar residential house in Andorra. Applied Energy, 2011, 88, 1343-1353.	5.1	35
22	Absorption of water vapour in the falling film of water (LiBr+LiI+LiNO ₃ +LiCl) in a vertical tube at air-cooling thermal conditions. International Journal of Thermal Sciences, 2005, 44, 491-498.	2.6	33
23	Optimum heat exchanger area estimation using coefficients of structural bonds: Application to an absorption chiller. International Journal of Refrigeration, 2010, 33, 529-537.	1.8	26
24	Energy Savings Potential of a Novel Radiative Cooling and Solar Thermal Collection Concept in Buildings for Various World Climates. Energy Technology, 2018, 6, 2200-2209.	1.8	25
25	Economics and climate change emissions analysis of a bioclimatic institutional building with trigeneration and solar support. Applied Thermal Engineering, 2008, 28, 2227-2235.	3.0	22
26	Adaptive covers for combined radiative cooling and solar heating. A review of existing technology and materials. Solar Energy Materials and Solar Cells, 2021, 230, 111275.	3.0	21
27	Air quality impacts of distributed power generation in the South Coast Air Basin of California 1: Scenario development and modeling analysis. Atmospheric Environment, 2006, 40, 5508-5521.	1.9	19
28	Comparison of Stratification in a Water Tank and a PCM-Water Tank. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.1	15
29	Performance of air-cooled absorption air-conditioning systems working with water-(LiBr + LiI + LiNO ₃) Tj ETQq1 1 0.784314 rgBT /Over Engineering, 2005, 219, 205-213.	1.4	12
30	Assessing the nearly zero-energy building gap in university campuses with a feature extraction methodology applied to a case study in Spain. International Journal of Energy and Environmental Engineering, 2018, 9, 227-247.	1.3	12
31	A simple model for falling film absorption on vertical tubes in the presence of non-absorbables. International Journal of Refrigeration, 2003, 26, 108-116.	1.8	11
32	Combined Radiative Cooling and Solar Thermal Collection: Experimental Proof of Concept. Energies, 2020, 13, 893.	1.6	10
33	Mapping Nighttime and All-Day Radiative Cooling Potential in Europe and the Influence of Solar Reflectivity. Atmosphere, 2021, 12, 1119.	1.0	9
34	A methodology for developing Distributed Generation scenarios in urban areas using geographical information systems. International Journal of Energy Technology and Policy, 2008, 6, 413.	0.1	8
35	Economic Viability of a Molten Carbonate Fuel Cell Working With Biogas. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	7
36	Analysis of the Thermal Behavior of an Earthbag Building in Mediterranean Continental Climate: Monitoring and Simulation. Energies, 2020, 13, 162.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Improve Thermal Comfort in Concrete Buildings by Using Phase Change Material. , 2007, , 457.		5
38	Inquiry-Based Learning for Older People at a University in Spain. Educational Gerontology, 2009, 35, 712-731.	0.7	4
39	Reducing the Life Cycle Environmental Impact of Buildings Following a Simulation-Optimization Approach. , 2017, , 823-839.		4
40	Comparison of Stratification in a Water Tank and a PCM-Water Tank. , 2007, , 465.		3
41	Effect of using external vertical fins in phase change material modules for domestic hot water tanks.. Renewable Energy and Power Quality Journal, 2006, 1, 118-123.	0.2	3
42	Economic Viability of a Molten Carbonate Fuel Cell Working With Biogas. , 2008, , .		1
43	Radiative Cooling to Cover Cooling Demands of an Earthbag Building in a Training Medical Center in Burkina Faso. , 2018, , .		1
44	Urban Air Quality Impacts of Distributed Generation. , 2003, , .		0
45	Urban Air Quality Impacts of Distributed Generation. , 2004, , .		0
46	Monitoring Microturbine Generators Installed in the South Coast Air Basin. , 2005, , .		0
47	Passive Systems for Energy Savings of Buildings in Tropical Climate. , 2016, , .		0
48	Radiative Collector and Emitter: Experimental Results. , 2018, , .		0