

Marc Medrano

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

4,169
citations

21
h-index

48
g-index

48
ext. papers

4,636
ext. citations

6.2
avg, IF

5.16
L-index

#	Paper	IF	Citations
41	State of the art on high temperature thermal energy storage for power generation. Part 1 Concepts, materials and modellization. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 31-55	16.2	1116
40	Use of microencapsulated PCM in concrete walls for energy savings. <i>Energy and Buildings</i> , 2007 , 39, 113-119	11.9	566
39	State of the art on high-temperature thermal energy storage for power generation. Part 2 Case studies. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 56-72	16.2	449
38	Experimental study of using PCM in brick constructive solutions for passive cooling. <i>Energy and Buildings</i> , 2010 , 42, 534-540	7	347
37	Experimental evaluation of commercial heat exchangers for use as PCM thermal storage systems. <i>Applied Energy</i> , 2009 , 86, 2047-2055	10.7	286
36	Experimental study on the performance of insulation materials in Mediterranean construction. <i>Energy and Buildings</i> , 2010 , 42, 630-636	7	154
35	Natural convection heat transfer coefficients in phase change material (PCM) modules with external vertical fins. <i>Applied Thermal Engineering</i> , 2008 , 28, 1676-1686	5.8	131
34	Overview of thermal energy storage (TES) potential energy savings and climate change mitigation in Spain and Europe. <i>Applied Energy</i> , 2011 , 88, 2764-2774	10.7	129
33	Exergy analysis of multi-effect water-LiBr absorption systems: From half to triple effect. <i>Renewable Energy</i> , 2010 , 35, 1773-1782	8.1	115
32	Life Cycle Assessment of the inclusion of phase change materials (PCM) in experimental buildings. <i>Energy and Buildings</i> , 2010 , 42, 1517-1523	7	101
31	Dimensionless numbers used to characterize stratification in water tanks for discharging at low flow rates. <i>Renewable Energy</i> , 2010 , 35, 2192-2199	8.1	92
30	Integration of distributed generation systems into generic types of commercial buildings in California. <i>Energy and Buildings</i> , 2008 , 40, 537-548	7	89
29	Effect of microencapsulated phase change material in sandwich panels. <i>Renewable Energy</i> , 2010 , 35, 2370-2374	8.1	82
28	Double-lift absorption refrigeration cycles driven by low-temperature heat sources using organic fluid mixtures as working pairs. <i>Applied Energy</i> , 2001 , 68, 173-185	10.7	61
27	Experimental Study of PCM Inclusion in Different Building Envelopes. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2009 , 131,	2.3	52
26	Absorption of water vapour in the falling film of water-lithium bromide inside a vertical tube at air-cooling thermal conditions. <i>International Journal of Thermal Sciences</i> , 2002 , 41, 891-898	4.1	52
25	Multi-objective optimization of thermal modelled cubicles considering the total cost and life cycle environmental impact. <i>Energy and Buildings</i> , 2015 , 88, 335-346	7	49

24	Dynamic thermal performance of alveolar brick construction system. <i>Energy Conversion and Management</i> , 2011 , 52, 2495-2500	10.6	33
23	Design and performance of energy-efficient solar residential house in Andorra. <i>Applied Energy</i> , 2011 , 88, 1343-1353	10.7	31
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. <i>International Journal of Thermal Sciences</i> , 2005 , 44, 491-498	4.1	31
21	Energetic and exergetic analysis of a domestic water tank with phase change material. <i>International Journal of Energy Research</i> , 2008 , 32, 204-214	4.5	27
20	Optimum heat exchanger area estimation using coefficients of structural bonds: Application to an absorption chiller. <i>International Journal of Refrigeration</i> , 2010 , 33, 529-537	3.8	21
19	Improving thermal comfort of earthen dwellings in sub-Saharan Africa with passive design. <i>Journal of Building Engineering</i> , 2019 , 24, 100732	5.2	19
18	Economics and climate change emissions analysis of a bioclimatic institutional building with tri-generation and solar support. <i>Applied Thermal Engineering</i> , 2008 , 28, 2227-2235	5.8	19
17	Air quality impacts of distributed power generation in the South Coast Air Basin of California 1: Scenario development and modeling analysis. <i>Atmospheric Environment</i> , 2006 , 40, 5508-5521	5.3	18
16	Energy Savings Potential of a Novel Radiative Cooling and Solar Thermal Collection Concept in Buildings for Various World Climates. <i>Energy Technology</i> , 2018 , 6, 2200-2209	3.5	14
15	Comparison of Stratification in a Water Tank and a PCM-Water Tank. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2009 , 131,	2.3	13
14	A simple model for falling film absorption on vertical tubes in the presence of non-absorbables. <i>International Journal of Refrigeration</i> , 2003 , 26, 108-116	3.8	11
13	Assessing the nearly zero-energy building gap in university campuses with a feature extraction methodology applied to a case study in Spain. <i>International Journal of Energy and Environmental Engineering</i> , 2018 , 9, 227-247	4	8
12	A methodology for developing Distributed Generation scenarios in urban areas using geographical information systems. <i>International Journal of Energy Technology and Policy</i> , 2008 , 6, 413	1	8
11	Performance of air-cooled absorption air-conditioning systems working with water-(LiBr + LiI + LiNO ₃ + LiCl). <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2005 , 219, 205-213	1.5	8
10	Economic Viability of a Molten Carbonate Fuel Cell Working With Biogas. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		7
9	Combined Radiative Cooling and Solar Thermal Collection: Experimental Proof of Concept. <i>Energies</i> , 2020 , 13, 893	3.1	6
8	Improve Thermal Comfort in Concrete Buildings by Using Phase Change Material 2007 , 457		5
7	Inquiry-Based Learning for Older People at a University in Spain. <i>Educational Gerontology</i> , 2009 , 35, 712-731		4

6	Adaptive covers for combined radiative cooling and solar heating. A review of existing technology and materials. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 230, 111275	6.4	4
5	Reducing the Life Cycle Environmental Impact of Buildings Following a Simulation-Optimization Approach 2017 , 823-839		3
4	Analysis of the Thermal Behavior of an Earthbag Building in Mediterranean Continental Climate: Monitoring and Simulation. <i>Energies</i> , 2020 , 13, 162	3.1	2
3	Comparison of Stratification in a Water Tank and a PCM-Water Tank 2007 , 465		2
2	Effect of using external vertical fins in phase change material modules for domestic hot water tanks.. <i>Renewable Energy and Power Quality Journal</i> , 2006 , 1, 118-123		2
1	Mapping Nighttime and All-Day Radiative Cooling Potential in Europe and the Influence of Solar Reflectivity. <i>Atmosphere</i> , 2021 , 12, 1119	2.7	2