

# Marc Medrano

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Mapping Nighttime and All-Day Radiative Cooling Potential in Europe and the Influence of Solar Reflectivity. <i>Atmosphere</i> , 2021, 12, 1119.	1.0	9
2	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.	3.0	21
3	Combined Radiative Cooling and Solar Thermal Collection: Experimental Proof of Concept. <i>Energies</i> , 2020, 13, 893.	1.6	10
4	Analysis of the Thermal Behavior of an Earthbag Building in Mediterranean Continental Climate: Monitoring and Simulation. <i>Energies</i> , 2020, 13, 162.	1.6	6
5	Improving thermal comfort of earthen dwellings in sub-Saharan Africa with passive design. <i>Journal of Building Engineering</i> , 2019, 24, 100732.	1.6	38
6	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.	1.3	12
7	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.	1.8	25
8	Radiative Cooling to Cover Cooling Demands of an Earthbag Building in a Training Medical Center in Burkina Faso. , 2018, , .		1
9	Radiative Collector and Emitter: Experimental Results. , 2018, , .		0
10	Reducing the Life Cycle Environmental Impact of Buildings Following a Simulation-Optimization Approach. , 2017, , 823-839.		4
11	Passive Systems for Energy Savings of Buildings in Tropical Climate. , 2016, , .		0
12	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.	3.1	56
13	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.	5.1	154
14	Dynamic thermal performance of alveolar brick construction system. <i>Energy Conversion and Management</i> , 2011, 52, 2495-2500.	4.4	36
15	Design and performance of energy-efficient solar residential house in Andorra. <i>Applied Energy</i> , 2011, 88, 1343-1353.	5.1	35
16	Exergy analysis of multi-effect water-LiBr absorption systems: From half to triple effect. <i>Renewable Energy</i> , 2010, 35, 1773-1782.	4.3	139
17	Dimensionless numbers used to characterize stratification in water tanks for discharging at low flow rates. <i>Renewable Energy</i> , 2010, 35, 2192-2199.	4.3	120
18	Effect of microencapsulated phase change material in sandwich panels. <i>Renewable Energy</i> , 2010, 35, 2370-2374.	4.3	95

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Experimental study on the performance of insulation materials in Mediterranean construction. Energy and Buildings, 2010, 42, 630-636.	3.1	206
23	Experimental study of using PCM in brick constructive solutions for passive cooling. Energy and Buildings, 2010, 42, 534-540.	3.1	426
24	Life Cycle Assessment of the inclusion of phase change materials (PCM) in experimental buildings. Energy and Buildings, 2010, 42, 1517-1523.	3.1	128
25	Economic Viability of a Molten Carbonate Fuel Cell Working With Biogas. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	7
26	Experimental Study of PCM Inclusion in Different Building Envelopes. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.1	60
27	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
28	Experimental evaluation of commercial heat exchangers for use as PCM thermal storage systems. Applied Energy, 2009, 86, 2047-2055.	5.1	351
29	Inquiry-Based Learning for Older People at a University in Spain. Educational Gerontology, 2009, 35, 712-731.	0.7	4
30	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
31	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
32	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
33	Integration of distributed generation systems into generic types of commercial buildings in California. Energy and Buildings, 2008, 40, 537-548.	3.1	102
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. , 2008, , .		1
36	Improve Thermal Comfort in Concrete Buildings by Using Phase Change Material. , 2007, , 457.		5

#	ARTICLE	IF	CITATIONS
37	Comparison of Stratification in a Water Tank and a PCM-Water Tank. , 2007, , 465.		3
38	Use of microencapsulated PCM in concrete walls for energy savings. Energy and Buildings, 2007, 39, 113-119.	3.1	687
39	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
40	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
41	Absorption of water vapour in the falling film of waterâ€“(LiBr+LiI+LiNO3+LiCl) in a vertical tube at air-cooling thermal conditions. International Journal of Thermal Sciences, 2005, 44, 491-498.	2.6	33
42	Performance of air-cooled absorption air-conditioning systems working with water-(LiBr + LiI + LiNO3) Tj ETQq0 0 0 rgBT /Overlock 10 TF Engineering, 2005, 219, 205-213.	1.4	12
43	Monitoring Microturbine Generators Installed in the South Coast Air Basin. , 2005, , .		0
44	Urban Air Quality Impacts of Distributed Generation. , 2004, , .		0
45	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
46	Urban Air Quality Impacts of Distributed Generation. , 2003, , .		0
47	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
48	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