

# Ana Garca-Romero

## List of Publications by Citations

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33  
papers

609  
citations

12  
h-index

24  
g-index

33  
ext. papers

696  
ext. citations

5.1  
avg, IF

4.03  
L-index

#	Paper	IF	Citations
33	Eutectic mixtures of sugar alcohols for thermal energy storage in the 50-90 °C temperature range. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 134, 215-226	6.4	90
32	A comparative study of the CFD modeling of a ventilated active façade including phase change materials. <i>Applied Energy</i> , <b>2014</b> , 126, 307-317	10.7	65
31	Molten salt-based nanofluids as efficient heat transfer and storage materials at high temperatures. An overview of the literature. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 3924-3945	16.2	58
30	High temperature corrosion behavior on molten nitrate salt-based nanofluids for CSP plants. <i>Renewable Energy</i> , <b>2019</b> , 130, 902-909	8.1	56
29	Ventilated active façades with PCM. <i>Applied Energy</i> , <b>2013</b> , 109, 530-537	10.7	52
28	Influence of the experimental conditions on the subcooling of Glauber's salt when used as PCM. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 102, 189-195	6.4	42
27	Rheology of Solar-Salt based nanofluids for concentrated solar power. Influence of the salt purity, nanoparticle concentration, temperature and rheometer geometry. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 176, 357-373	6.4	29
26	Design of a Finned Plate Latent Heat Thermal Energy Storage System for Domestic Applications. <i>Energy Procedia</i> , <b>2014</b> , 48, 300-308	2.3	26
25	Corrosion behaviour of several aluminium alloys in contact with a thermal storage phase change material based on Glauber's salt. <i>Corrosion Science</i> , <b>2009</b> , 51, 1263-1272	6.8	25
24	Compatibility of container materials for Concentrated Solar Power with a solar salt and alumina based nanofluid: A study under dynamic conditions. <i>Renewable Energy</i> , <b>2020</b> , 146, 384-396	8.1	25
23	Encapsulated High Temperature PCM as Active Filler Material in a Thermocline-based Thermal Storage System. <i>Energy Procedia</i> , <b>2015</b> , 69, 937-946	2.3	24
22	Determination of the phase diagram and main thermophysical properties of the erythritol-urea eutectic mixture for its use as a phase change material. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 894-906	6.4	15
21	Analysis of electrodeposition processes to obtain calcium phosphate layer on AZ31 alloy. <i>Surface and Coatings Technology</i> , <b>2017</b> , 319, 12-22	4.4	12
20	A novel correlation for the direct determination of the discharging time of plate-based latent heat thermal energy storage systems. <i>Applied Thermal Engineering</i> , <b>2018</b> , 129, 521-534	5.8	11
19	Fracture and Fatigue Behaviour of Aluminium Matrix Composite Automotive Pistons. <i>Applied Composite Materials</i> , <b>2010</b> , 17, 15-30	2	10
18	A precise method to measure the specific heat of solar salt-based nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 129, 905-914	4.1	9
17	Statistical analysis of the tensile strength of an Al <sub>2</sub> O <sub>3</sub> short-fibre-reinforced aluminium composite. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 2605-2609	4.3	9

16	Wear Behavior of Copper Matrix Composites. <i>Key Engineering Materials</i> , <b>1996</b> , 127-131, 1009-1016	0.4	8
15	The sodium nitrate-urea binary mixture as a phase change material for medium temperature thermal energy storage. Part I: Determination of the phase diagram and main thermal properties. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 1065-1075	6.4	6
14	Silica and alumina nano-enhanced molten salts for thermal energy storage: A comparison <b>2017</b> ,		6
13	The influence of mixing water on the thermophysical properties of nanofluids based on solar salt and silica nanoparticles <b>2016</b> ,		5
12	The sodium nitrate-urea eutectic binary mixture as a phase change material for medium temperature thermal energy storage. Part II: Accelerated thermal cycling test and water uptake behavior of the material. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 1076-1083	6.4	5
11	Preparation of nanofluids based on solar salt and boehmite nanoparticles: Characterization of starting materials <b>2016</b> ,		4
10	Wear behaviour of an aluminium matrix composite. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2008</b> , 31, 803	3	4
9	Parametric characterization of a full-scale plate-based latent heat thermal energy storage system. <i>Applied Thermal Engineering</i> , <b>2020</b> , 178, 115441	5.8	3
8	Validation of heat transfer models for PCMs with a conductivimeter. <i>Energy Procedia</i> , <b>2012</b> , 30, 395-403	2.3	3
7	Study of the porosity produced in an aluminum alloy matrix composite due to a T6 heat treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2004</b> , 35, 2503-2510 <sup>2,3</sup>		3
6	Molten salt based nanofluids based on solar salt and alumina nanoparticles: An industrial approach <b>2017</b> ,		2
5	Analysis of the Solidification and Properties of Plaster Cast Al Based Composites. <i>Archives of Metallurgy and Materials</i> , <b>2012</b> , 57, 119-125		2
4	Long-term assessment of the thermal stability of sodium nitrate-urea eutectic phase change material. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 230, 111261	6.4	0
3	Ventilated Brake Discs Manufactured in Aluminium Matrix Composites and Hypereutectic Aluminium Alloys. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 2157-2162	0.4	
2	Study of the Thermal Treatment of an Alumina Short Fibre Reinforced Aluminium Composite. <i>Key Engineering Materials</i> , <b>1996</b> , 127-131, 1259-1266	0.4	
1	Microstructure-Properties Relationship of AS9U3/SiCp Composites Formed by Sand and Permanent Mold Casting. <i>Key Engineering Materials</i> , <b>1996</b> , 127-131, 487-494	0.4	