

# Ana Garca-Romero

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2280404/ana-garcia-romero-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	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
32	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
31	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
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	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
28	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
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	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
25	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
24	Silica and alumina nano-enhanced molten salts for thermal energy storage: A comparison <b>2017</b> ,		6
23	Molten salt based nanofluids based on solar salt and alumina nanoparticles: An industrial approach <b>2017</b> ,		2
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	The influence of mixing water on the thermophysical properties of nanofluids based on solar salt and silica nanoparticles <b>2016</b> ,		5
20	Preparation of nanofluids based on solar salt and boehmite nanoparticles: Characterization of starting materials <b>2016</b> ,		4
19	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
18	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
17	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

16	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
15	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
14	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
13	Ventilated active façades with PCM. <i>Applied Energy</i> , <b>2013</b> , 109, 530-537	10.7	52
12	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
11	Validation of heat transfer models for PCMs with a conductivimeter. <i>Energy Procedia</i> , <b>2012</b> , 30, 395-403	2.3	3
10	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
9	Fracture and Fatigue Behaviour of Aluminium Matrix Composite Automotive Pistons. <i>Applied Composite Materials</i> , <b>2010</b> , 17, 15-30	2	10
8	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
7	Wear behaviour of an aluminium matrix composite. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2008</b> , 31, 803	3	4
6	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	2.3	3
5	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	
4	Wear Behavior of Copper Matrix Composites. <i>Key Engineering Materials</i> , <b>1996</b> , 127-131, 1009-1016	0.4	8
3	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	
2	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	
1	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