

Ana GarcÃ-a-Romero

List of Publications by Year in descending order

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33
papers

780
citations

623574

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h-index

501076

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all docs

33
docs citations

33
times ranked

875
citing authors

#	ARTICLE	IF	CITATIONS
1	Eutectic mixtures of sugar alcohols for thermal energy storage in the 50–90°C temperature range. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 215-226.	3.0	121
2	A comparative study of the CFD modeling of a ventilated active façade including phase change materials. <i>Applied Energy</i> , 2014, 126, 307-317.	5.1	76
3	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> , 2018, 82, 3924-3945.	8.2	74
4	High temperature corrosion behavior on molten nitrate salt-based nanofluids for CSP plants. <i>Renewable Energy</i> , 2019, 130, 902-909.	4.3	69
5	Ventilated active façades with PCM. <i>Applied Energy</i> , 2013, 109, 530-537.	5.1	59
6	Influence of the experimental conditions on the subcooling of Glauber's salt when used as PCM. <i>Solar Energy Materials and Solar Cells</i> , 2012, 102, 189-195.	3.0	50
7	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> , 2018, 176, 357-373.	3.0	39
8	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> , 2020, 146, 384-396.	4.3	33
9	Design of a Finned Plate Latent Heat Thermal Energy Storage System for Domestic Applications. <i>Energy Procedia</i> , 2014, 48, 300-308.	1.8	32
10	Corrosion behaviour of several aluminium alloys in contact with a thermal storage phase change material based on Glauber's salt. <i>Corrosion Science</i> , 2009, 51, 1263-1272.	3.0	31
11	Encapsulated High Temperature PCM as Active Filler Material in a Thermocline-based Thermal Storage System. <i>Energy Procedia</i> , 2015, 69, 937-946.	1.8	28
12	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> , 2016, 157, 894-906.	3.0	24
13	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> , 2018, 129, 521-534.	3.0	17
14	Analysis of electrodeposition processes to obtain calcium phosphate layer on AZ31 alloy. <i>Surface and Coatings Technology</i> , 2017, 319, 12-22.	2.2	15
15	Statistical analysis of the tensile strength of an Al ₂ O ₃ short-fibre-reinforced aluminium composite. <i>Journal of Materials Science</i> , 1995, 30, 2605-2609.	1.7	14
16	Fracture and Fatigue Behaviour of Aluminium Matrix Composite Automotive Pistons. <i>Applied Composite Materials</i> , 2010, 17, 15-30.	1.3	12
17	A precise method to measure the specific heat of solar salt-based nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 905-914.	2.0	12
18	Parametric characterization of a full-scale plate-based latent heat thermal energy storage system. <i>Applied Thermal Engineering</i> , 2020, 178, 115441.	3.0	12

#	ARTICLE	IF	CITATIONS
19	Wear Behavior of Copper Matrix Composites. <i>Key Engineering Materials</i> , 1996, 127-131, 1009-1016.	0.4	9
20	Silica and alumina nano-enhanced molten salts for thermal energy storage: A comparison. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	8
21	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> , 2016, 157, 1076-1083.	3.0	6
22	The influence of mixing water on the thermophysical properties of nanofluids based on solar salt and silica nanoparticles. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	6
23	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> , 2016, 157, 1065-1075.	3.0	6
24	Molten salt based nanofluids based on solar salt and alumina nanoparticles: An industrial approach. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	6
25	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> , 2004, 35, 2503-2510.	1.1	4
26	Wear behaviour of an aluminium matrix composite. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2008, 31, 803-811.	1.7	4
27	Validation of heat transfer models for PCMs with a conductivimeter. <i>Energy Procedia</i> , 2012, 30, 395-403.	1.8	4
28	Preparation of nanofluids based on solar salt and boehmite nanoparticles: Characterization of starting materials. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
29	Long-term assessment of the thermal stability of sodium nitrate-urea eutectic phase change material. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111261.	3.0	3
30	Analysis of the Solidification and Properties of Plaster Cast Al Based Composites. <i>Archives of Metallurgy and Materials</i> , 2012, 57, 119-125.	0.6	2
31	Study of the Thermal Treatment of an Alumina Short Fibre Reinforced Aluminium Composite. <i>Key Engineering Materials</i> , 1996, 127-131, 1259-1266.	0.4	0
32	Microstructure-Properties Relationship of AS9U3/SiCp Composites Formed by Sand and Permanent Mold Casting. <i>Key Engineering Materials</i> , 1996, 127-131, 487-494.	0.4	0
33	Ventilated Brake Discs Manufactured in Aluminium Matrix Composites and Hypereutectic Aluminium Alloys. <i>Materials Science Forum</i> , 2003, 426-432, 2157-2162.	0.3	0