

Leonor Hernandez

List of Publications by Year in Descending Order

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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.

49
papers

700
citations

14
h-index

25
g-index

51
ext. papers

818
ext. citations

4.1
avg, IF

3.96
L-index

#	Paper	IF	Citations
49	Macro-porous permeability aspects of MgSO ₄ salt hydrate foams for energy storage applications. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51924	2.9	0
48	K ₂ CO ₃ /Li ₂ CO ₃ molten carbonate mixtures and their nanofluids for thermal energy storage: An overview of the literature. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 236, 111525	6.4	2
47	Bentonite as an active natural filler for silicone leading to piezoelectric-like response material. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 79-94	5.5	1
46	Convective heat transfer performance of thermal oil-based nanofluids in a high-temperature thermohydraulic loop. <i>International Journal of Thermal Sciences</i> , 2022 , 171, 107243	4.1	0
45	Characterisation of optical properties of solar nanofluids by an inverse problem based on a numerical model. <i>E3S Web of Conferences</i> , 2021 , 321, 02020	0.5	
44	Numerical analysis of mechanical reliability of multi-coated phase change materials. <i>E3S Web of Conferences</i> , 2021 , 321, 02019	0.5	
43	Viscosity and stability analysis of hitec salt-based alumina nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 222, 110923	6.4	4
42	Mechanical reliability analysis of nanoencapsulated phase change materials combining Monte Carlo technique and the finite element method. <i>Mechanics of Materials</i> , 2021 , 158, 103886	3.3	2
41	Single droplet drying of detergents: Experimentation and modelling. <i>Particuology</i> , 2021 , 58, 35-47	2.8	2
40	Improving heat transfer of stabilised thermal oil-based tin nanofluids using biosurfactant and molecular layer deposition. <i>Applied Thermal Engineering</i> , 2020 , 178, 115559	5.8	8
39	Silicone elastomers filled with rare earth oxides. <i>Materials Research Express</i> , 2020 , 7, 035703	1.7	2
38	New coloured coatings to enhance silica sand absorbance for direct particle solar receiver applications. <i>Renewable Energy</i> , 2020 , 152, 1-8	8.1	9
37	Influence of the production method on the thermophysical properties of high temperature molten salt-based nanofluids. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112570	6	23
36	Improved thermal energy storage of nanoencapsulated phase change materials by atomic layer deposition. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 206, 110322	6.4	10
35	Optical characterisation and photothermal conversion efficiency of a water-based carbon nanofluid for direct solar absorption applications. <i>Energy</i> , 2020 , 212, 118763	7.9	10
34	Non-linear finite element modelling of light-to-heat energy conversion applied to solar nanofluids. <i>International Journal of Mechanical Sciences</i> , 2020 , 188, 105952	5.5	5
33	Effects of Carbon Nanohorn Based Nanofluids Pool Boiling on Optical Properties and Wettability of Different Metal Surfaces. <i>Heat Transfer Engineering</i> , 2020 , 1-14	1.7	4

32	Effect of temperature on the internal structure of solar salt-SiO ₂ 2019 ,		1
31	Optical characterisation of oxidised carbon nanohorn nanofluids for direct solar energy absorption applications. <i>Solar Energy</i> , 2019 , 191, 323-331	6.8	4
30	Characterisation study of a thermal oil-based carbon black solar nanofluid. <i>Renewable Energy</i> , 2019 , 140, 493-500	8.1	19
29	Numerical and experimental characterization of the hydrodynamics and drying kinetics of a barbotine slurry spray. <i>Chemical Engineering Science</i> , 2019 , 195, 83-94	4.4	3
28	Influence of High Temperature Exposure on the Thermal and Optical Properties of Thermal Oil-Based Solar Nanofluids. <i>Journal of Nanofluids</i> , 2018 , 7, 1045-1052	2.2	5
27	Stabilization and characterization of a nanofluid based on a eutectic mixture of diphenyl and diphenyl oxide and carbon nanoparticles under high temperature conditions. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 113, 908-913	4.9	10
26	Nanofluid based on self-nanoencapsulated metal/metal alloys phase change materials with tuneable crystallisation temperature. <i>Scientific Reports</i> , 2017 , 7, 17580	4.9	28
25	New High-Temperature Heat Transfer and Thermal Storage Molten SaltBased Nanofluids 2017 , 287-304		2
24	Forced-convective heat-transfer coefficient and pressure drop of water-based nanofluids in a horizontal pipe. <i>Applied Thermal Engineering</i> , 2016 , 98, 841-849	5.8	36
23	Nanotechnology and Nanomaterials for Thermal Energy Storage 2015 , 1-13		2
22	Characterization of halloysite-water nanofluid for heat transfer applications. <i>Applied Clay Science</i> , 2014 , 99, 54-61	5.2	17
21	Increment of specific heat capacity of solar salt with SiO ₂ nanoparticles. <i>Nanoscale Research Letters</i> , 2014 , 9, 582	5	118
20	Modeling of Drying Curves of Silica Nanofluid Droplets Dried in an Acoustic Levitator Using the Reaction Engineering Approach (REA) Model. <i>Drying Technology</i> , 2013 , 31, 439-451	2.6	10
19	Influence of Particle Size on the Drying Kinetics of Single Droplets Containing Mixtures of Nanoparticles and Microparticles: Modeling and Pilot-Scale Validation. <i>Drying Technology</i> , 2013 , 31, 759-768	2.6	5
18	Water temperature effect on upward air-water flow in a vertical pipe: Local measurements database using four-sensor conductivity probes and LDA. <i>EPJ Web of Conferences</i> , 2013 , 45, 01105	0.3	8
17	Effect of slurry properties and operational conditions on the structure and properties of porcelain tile granules dried in an acoustic levitator. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 59-70	6	15
16	Measurement and modelling of forced convective heat transfer coefficient and pressure drop of Al ₂ O ₃ - and SiO ₂ -water nanofluids. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012038	0.3	2
15	Characterization of physical properties of nanofluids for heat transfer application. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012017	0.3	13

14	Study of the drying behavior of high load multiphase droplets in an acoustic levitator at high temperature conditions. <i>Chemical Engineering Science</i> , 2011 , 66, 2734-2744	4.4	29
13	Flow Regime Identification in Boiling Two-Phase Flow in a Vertical Annulus. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011 , 133,	2.1	13
12	On the use of area-averaged void fraction and local bubble chord length entropies as two-phase flow regime indicators. <i>Experiments in Fluids</i> , 2010 , 49, 1147-1160	2.5	
11	EXPERIMENTAL STUDY ON TWO-PHASE FLOW CHARACTERISTICS USING CONDUCTIVITY PROBES AND LASER DOPPLER ANEMOMETRY IN A VERTICAL PIPE. <i>Chemical Engineering Communications</i> , 2009 , 197, 180-191	2.2	5
10	Hydrodynamic characterization of a needle sparger rectangular bubble column: Homogeneous flow, static bubble plume and oscillating bubble plume. <i>Chemical Engineering Science</i> , 2007 , 62, 6361-6377	4.4	21
9	Combining Neural Networks and Genetic Algorithms to Predict and Reduce Diesel Engine Emissions. <i>IEEE Transactions on Evolutionary Computation</i> , 2007 , 11, 46-55	15.6	108
8	Fast classification of two-phase flow regimes based on conductivity signals and artificial neural networks. <i>Measurement Science and Technology</i> , 2006 , 17, 1511-1521	2	41
7	Combustion simulation of turbocharger HSDI Diesel engines during transient operation using neural networks. <i>Applied Thermal Engineering</i> , 2005 , 25, 877-898	5.8	52
6	Multi-objective optimization of heavy duty diesel engines under stationary conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2005 , 219, 77-87	1.4	6
5	The development of a semi-empirical model for rapid NOx concentration evaluation using measured in-cylinder pressure in diesel engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2005 , 219, 621-631	1.4	14
4	Application of Neural Networks for Prediction and Optimization of Exhaust Emissions in a H.D. Diesel Engine 2002 ,		28
3	A Preliminary Estimation of the Direct Ultraviolet Spectral Irradiance in Valencia (Spain): Comparison with Measured Values. <i>Radiation Protection Dosimetry</i> , 2000 , 91, 177-180	0.9	3
2	Numerical Modeling of the Mechanical Reliability of Multicoated Nanoencapsulated Phase-Change Materials with Improved Thermal Performance. <i>Solar Rrl</i> ,2100724	7.1	
1	Experimental Characterization and Statistical Analysis of Water-Based Gold Nanofluids for Solar Applications: Optical Properties and Photothermal Conversion Efficiency. <i>Solar Rrl</i> ,2200104	7.1	0