

# Leonor Hernandez

## List of Publications by Citations

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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	Increment of specific heat capacity of solar salt with SiO <sub>2</sub> nanoparticles. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 582	5	118
48	Combining Neural Networks and Genetic Algorithms to Predict and Reduce Diesel Engine Emissions. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2007</b> , 11, 46-55	15.6	108
47	Combustion simulation of turbocharger HSDI Diesel engines during transient operation using neural networks. <i>Applied Thermal Engineering</i> , <b>2005</b> , 25, 877-898	5.8	52
46	Fast classification of two-phase flow regimes based on conductivity signals and artificial neural networks. <i>Measurement Science and Technology</i> , <b>2006</b> , 17, 1511-1521	2	41
45	Forced-convective heat-transfer coefficient and pressure drop of water-based nanofluids in a horizontal pipe. <i>Applied Thermal Engineering</i> , <b>2016</b> , 98, 841-849	5.8	36
44	Study of the drying behavior of high load multiphase droplets in an acoustic levitator at high temperature conditions. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 2734-2744	4.4	29
43	Nanofluid based on self-nanoencapsulated metal/metal alloys phase change materials with tuneable crystallisation temperature. <i>Scientific Reports</i> , <b>2017</b> , 7, 17580	4.9	28
42	Application of Neural Networks for Prediction and Optimization of Exhaust Emissions in a H.D. Diesel Engine <b>2002</b> ,		28
41	Influence of the production method on the thermophysical properties of high temperature molten salt-based nanofluids. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 302, 112570	6	23
40	Hydrodynamic characterization of a needle sparger rectangular bubble column: Homogeneous flow, static bubble plume and oscillating bubble plume. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 6361-6377	4.4	21
39	Characterisation study of a thermal oil-based carbon black solar nanofluid. <i>Renewable Energy</i> , <b>2019</b> , 140, 493-500	8.1	19
38	Characterization of halloysite-water nanofluid for heat transfer applications. <i>Applied Clay Science</i> , <b>2014</b> , 99, 54-61	5.2	17
37	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> , <b>2012</b> , 32, 59-70	6	15
36	The development of a semi-empirical model for rapid NO <sub>x</sub> 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> , <b>2005</b> , 219, 621-631	1.4	14
35	Flow Regime Identification in Boiling Two-Phase Flow in a Vertical Annulus. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2011</b> , 133,	2.1	13
34	Characterization of physical properties of nanofluids for heat transfer application. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 395, 012017	0.3	13
33	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> , <b>2017</b> , 113, 908-913	4.9	10

32	Modeling of Drying Curves of Silica Nanofluid Droplets Dried in an Acoustic Levitator Using the Reaction Engineering Approach (REA) Model. <i>Drying Technology</i> , <b>2013</b> , 31, 439-451	2.6	10
31	Improved thermal energy storage of nanoencapsulated phase change materials by atomic layer deposition. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 206, 110322	6.4	10
30	Optical characterisation and photothermal conversion efficiency of a water-based carbon nanofluid for direct solar absorption applications. <i>Energy</i> , <b>2020</b> , 212, 118763	7.9	10
29	New coloured coatings to enhance silica sand absorbance for direct particle solar receiver applications. <i>Renewable Energy</i> , <b>2020</b> , 152, 1-8	8.1	9
28	Improving heat transfer of stabilised thermal oil-based tin nanofluids using biosurfactant and molecular layer deposition. <i>Applied Thermal Engineering</i> , <b>2020</b> , 178, 115559	5.8	8
27	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> , <b>2013</b> , 45, 01105	0.3	8
26	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> , <b>2005</b> , 219, 77-87	1.4	6
25	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> , <b>2013</b> , 31, 759-768	2.6	5
24	EXPERIMENTAL STUDY ON TWO-PHASE FLOW CHARACTERISTICS USING CONDUCTIVITY PROBES AND LASER DOPPLER ANEMOMETRY IN A VERTICAL PIPE. <i>Chemical Engineering Communications</i> , <b>2009</b> , 197, 180-191	2.2	5
23	Influence of High Temperature Exposure on the Thermal and Optical Properties of Thermal Oil-Based Solar Nanofluids. <i>Journal of Nanofluids</i> , <b>2018</b> , 7, 1045-1052	2.2	5
22	Non-linear finite element modelling of light-to-heat energy conversion applied to solar nanofluids. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 188, 105952	5.5	5
21	Optical characterisation of oxidised carbon nanohorn nanofluids for direct solar energy absorption applications. <i>Solar Energy</i> , <b>2019</b> , 191, 323-331	6.8	4
20	Effects of Carbon Nanohorn Based Nanofluids Pool Boiling on Optical Properties and Wettability of Different Metal Surfaces. <i>Heat Transfer Engineering</i> , <b>2020</b> , 1-14	1.7	4
19	Viscosity and stability analysis of hitec salt-based alumina nanofluids. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 222, 110923	6.4	4
18	A Preliminary Estimation of the Direct Ultraviolet Spectral Irradiance in Valencia (Spain): Comparison with Measured Values. <i>Radiation Protection Dosimetry</i> , <b>2000</b> , 91, 177-180	0.9	3
17	Numerical and experimental characterization of the hydrodynamics and drying kinetics of a barbotine slurry spray. <i>Chemical Engineering Science</i> , <b>2019</b> , 195, 83-94	4.4	3
16	Silicone elastomers filled with rare earth oxides. <i>Materials Research Express</i> , <b>2020</b> , 7, 035703	1.7	2
15	Nanotechnology and Nanomaterials for Thermal Energy Storage <b>2015</b> , 1-13		2

14	Measurement and modelling of forced convective heat transfer coefficient and pressure drop of Al <sub>2</sub> O <sub>3</sub> - and SiO <sub>2</sub> -water nanofluids. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 395, 012038	0.3	2
13	New High-Temperature Heat Transfer and Thermal Storage Molten SaltBased Nanofluids <b>2017</b> , 287-304		2
12	K <sub>2</sub> CO <sub>3</sub> Li <sub>2</sub> CO <sub>3</sub> molten carbonate mixtures and their nanofluids for thermal energy storage: An overview of the literature. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 236, 111525	6.4	2
11	Mechanical reliability analysis of nanoencapsulated phase change materials combining Monte Carlo technique and the finite element method. <i>Mechanics of Materials</i> , <b>2021</b> , 158, 103886	3.3	2
10	Single droplet drying of detergents: Experimentation and modelling. <i>Particuology</i> , <b>2021</b> , 58, 35-47	2.8	2
9	Effect of temperature on the internal structure of solar salt-SiO <sub>2</sub> <b>2019</b> ,		1
8	Bentonite as an active natural filler for silicone leading to piezoelectric-like response material. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 17, 79-94	5.5	1
7	Macro-porous permeability aspects of MgSO <sub>4</sub> salt hydrate foams for energy storage applications. <i>Journal of Applied Polymer Science</i> , <b>2022</b> , 139, 51924	2.9	0
6	Convective heat transfer performance of thermal oil-based nanofluids in a high-temperature thermohydraulic loop. <i>International Journal of Thermal Sciences</i> , <b>2022</b> , 171, 107243	4.1	0
5	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
4	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> , <b>2010</b> , 49, 1147-1160	2.5	
3	Numerical Modeling of the Mechanical Reliability of Multicoated Nanoencapsulated Phase-Change Materials with Improved Thermal Performance. <i>Solar Rrl</i> ,2100724	7.1	
2	Characterisation of optical properties of solar nanofluids by an inverse problem based on a numerical model. <i>E3S Web of Conferences</i> , <b>2021</b> , 321, 02020	0.5	
1	Numerical analysis of mechanical reliability of multi-coated phase change materials. <i>E3S Web of Conferences</i> , <b>2021</b> , 321, 02019	0.5	