Luben Cabezas GÃ³mez

List of Publications by Year
in descending order

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63	755	623734	552781
papers	citations	14 h-index	26 g-index

69	69	69	631
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Using engine exhaust gas as energy source for an absorption refrigeration system. Applied Energy, 2010, 87, 1141-1148.	10.1	146
2	A new approach for thermal performance calculation of cross-flow heat exchangers. International Journal of Heat and Mass Transfer, 2005, 48, 3880-3888.	4.8	63
3	Effectiveness-ntu computation with a mathematical model for cross-flow heat exchangers. Brazilian Journal of Chemical Engineering, 2007, 24, 509-521.	1.3	58
4	Numerical study on the influence of various physical parameters over the gasâ€“solid two-phase flow in the 2D riser of a circulating fluidized bed. Powder Technology, 2003, 132, 216-225.	4.2	56
5	Energy and exergy analysis of the airflow inside a solar chimney. Renewable and Sustainable Energy Reviews, 2013, 27, 350-361.	16.4	50
6	Thermodynamic analysis of the drying process of bananas in a small-scale solar updraft tower in Brazil. Renewable Energy, 2017, 114, 1005-1012.	8.9	31
7	Damping coefficient and contact duration relations for continuous nonlinear spring-dashpot contact model in DEM. Powder Technology, 2016, 302, 462-479.	4.2	27
8	Thermal Performance of Multipass Parallel and Counter-Cross-Flow Heat Exchangers. Journal of Heat Transfer, 2007, 129, 282-290.	2.1	26
9	Cluster identification and characterization in the riser of a circulating fluidized bed from numerical simulation results. Applied Mathematical Modelling, 2008, 32, 327-340.	4.2	21
10	Numerical Analyses for Low Reynolds Flow in a Ventricular Assist Device. Artificial Organs, 2017, 41, E30-E40.	1.9	19
11	Experimental investigation of the CHF of HFE-7100 under pool boiling conditions on differently roughened surfaces. International Journal of Heat and Mass Transfer, 2019, 139, 269-279.	4.8	17
12	The effect of numerical diffusion and the influence of computational grid over gasâ€“solid two-phase flow in a bubbling fluidized bed. Mathematical and Computer Modelling, 2010, 52, 1390-1402.	2.0	15
13	A numerical simulation analysis of the effect of the interface drag function on cluster evolution in a CFB riser gas-solid flow. Brazilian Journal of Chemical Engineering, 2004, 21, 569-583.	1.3	14
14	Thermal characterization of a cross-flow heat exchanger with a new flow arrangement. International Journal of Thermal Sciences, 2009, 48, 2165-2170.	4.9	14
15	Numerical and experimental study of the transient behavior of a domestic vapor compression refrigeration system â€“ Influence of refrigerant charge and ambient temperature. Applied Thermal Engineering, 2021, 190, 116728.	6.0	14
16	Numerical simulation of a radial diffuser turbulent airflow. Applied Mathematics and Computation, 2007, 189, 1491-1504.	2.2	13
17	Analysis of a new cross flow heat exchanger flow arrangement â€“ Extension to several rows. International Journal of Thermal Sciences, 2012, 55, 122-132.	4.9	13
18	New thermal effectiveness data and formulae for some cross-flow arrangements of practical interest. International Journal of Heat and Mass Transfer, 2014, 69, 237-246.	4.8	11

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19	Analytical model for thermal efficiency of organic Rankine cycles, considering superheating, heat recovery, pump and expander efficiencies. Energy Conversion and Management, 2021, 246, 114628.	9.2	10
20	Collisional solid's pressure impact on numerical results from a traditional two-fluid model. Powder Technology, 2005, 149, 78-83.	4.2	9
21	A generalized alternating-direction implicit scheme for incompressible magnetohydrodynamic viscous flows at low magnetic Reynolds number. Applied Mathematics and Computation, 2007, 189, 1601-1613.	2.2	9
22	Effectiveness - NTU data and analysis for air conditioning and refrigeration air coils. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2010, 32, 218-226.	1.6	9
23	Detailed transient assessment of a small-scale concentrated solar power plant based on the organic Rankine cycle. Applied Thermal Engineering, 2022, 204, 117959.	6.0	9
24	Some modeling and numerical aspects of the two-fluid simulation of the gas-solids flow in a CFB riser. Brazilian Journal of Chemical Engineering, 2006, 23, 487-496.	1.3	8
25	Closed form relationships of temperature effectiveness of cross-flow heat exchangers. Thermal Science and Engineering Progress, 2019, 9, 110-120.	2.7	8
26	Numerical simulation of fluid flow in CFB risers: A turbulence analysis approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2005, 27, 141-149.	1.6	7
27	Force approach for the pseudopotential lattice Boltzmann method. Physical Review E, 2020, 102, 033307.	2.1	7
28	A modified approach for numerical simulation of capillary tube-suction line heat exchangers. Applied Thermal Engineering, 2016, 102, 283-292.	6.0	6
29	Simulation of Boiling Heat Transfer at Different Reduced Temperatures with an Improved Pseudopotential Lattice Boltzmann Method. Symmetry, 2020, 12, 1358.	2.2	6
30	THE ADVANTAGES OF EVAPORATION IN MICRO-SCALE CHANNELS TO COOL MICROELETRONIC DEVICES. Revista De Engenharia TÃ©rmica, 2007, 6, 34.	0.2	5
31	An experimental comparison between LPG and engine exhaust gas as energy source for an absorption refrigeration system. International Journal of Energy Research, 2012, 36, 820-828.	4.5	5
32	Pseudopotential Lattice Boltzmann Method for boiling heat transfer: A mesh refinement procedure. Applied Thermal Engineering, 2022, 213, 118705.	6.0	5
33	INFLUENCE OF THE GRANULAR TEMPERATURE IN THE NUMERICAL SIMULATION OF GAS-SOLID FLOW IN A BUBBLING FLUIDIZED BED. Chemical Engineering Communications, 2014, 201, 1003-1020.	2.6	4
34	Experimental and numerical study of slightly loaded water alumina nanofluids in the developing region of a 1.1 mm in diameter pipe and convective enhancement evaluation. International Journal of Heat and Mass Transfer, 2017, 115, 317-335.	4.8	4
35	THERMAL PERFORMANCE OF ONE-PASS SHELL-AND-TUBE HEAT EXCHANGERS IN COUNTER-FLOW. Brazilian Journal of Chemical Engineering, 2019, 36, 869-883.	1.3	4
36	Shaping the equation of state to improve numerical accuracy and stability of the pseudopotential lattice Boltzmann method. Physical Review E, 2022, 105, 015303.	2.1	4

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37	Numerical modeling of the thermalâ€“hydraulic behavior of wire-on-tube condensers operating with HFC-134a using homogeneous equilibrium model: evaluation of some void fraction correlations. Heat and Mass Transfer, 2016, 52, 183-195.	2.1	3
38	An experimental study of refrigerant expansion inside coiled adiabatic capillary tubes and development of a general correlation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	3
39	A detailed study of the transient behavior of dual-skin chest-freezer with R290. International Journal of Refrigeration, 2021, 131, 300-311.	3.4	3
40	Gas-solid two-phase flow in the riser of circulating fluidized beds: mathematical modelling and numerical simulation. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 2001, 23, 179-200.	0.1	3
41	Assessment of the Fluid Dynamics Aspects of a Vehicle Ventilation System. International Journal of Ventilation, 2015, 14, 65-76.	0.4	2
42	Numerical Simulation of the Two-Dimensional Heat Diffusion in the Cold Substrate and Performance Analysis of a Thermoelectric Air Cooler Using The Lattice Boltzmann Method. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	2
43	Wavelet-Galerkin method for one-dimensional elastoplasticity and damage problems: Constitutive modeling and computational aspects. Applied Mathematics and Computation, 2008, 198, 904-915.	2.2	1
44	Numerical Procedure for LMTD Correction Factor Calculation for One Tube and One Shell Pass Shell-and-Tube Heat Exchangers. Applied Mechanics and Materials, 0, 789-790, 426-429.	0.2	1
45	Numerical Determination of the LMTD Correction Factor for Shell-and-Tube 1-2 Heat Exchangers. Applied Mechanics and Materials, 0, 789-790, 457-461.	0.2	1
46	Simplified approach for simulating hermetic compressor startup regime. The Academic Society Journal, 0, , 13-28.	0.1	1
47	Self-diffusion in nanofluids of nonelongated particles in the dilute limit. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	1
48	Total Energy Thermal Lattice Boltzmann Simulation of Mixed Convection in a Square Cavity. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	1
49	Thermodynamic Irreversibility Analysis of Dual-Skin Chest-Freezer. Entropy, 2022, 24, 453.	2.2	1
50	A CSP-desalination system using a supercritical carbon dioxide Brayton cycle in Brazil. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	1.6	1
51	Heat Exchanger Study fir Ethanol Vaporization to Fuel Otto Cycle Engines. , 0, , .		0
52	Shape optimization of a flat channel with an array of discrete, flushâ€mounted heat sources on one plate being cooled by forced convective water. International Journal of Numerical Methods for Heat and Fluid Flow, 2010, 20, 286-297.	2.8	0
53	Analysis of the Impact of the New Emissions Limits on the Temperatures of the Vehicle Floor. Applied Mechanics and Materials, 2012, 152-154, 976-981.	0.2	0
54	Evaluation of Correlations for Natural Convection on the Behavior of a Wire-on-Tube Condenser. Advanced Materials Research, 2014, 1016, 774-777.	0.3	0

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55	Fluid Dynamic Simulation and Optimization of Compact Heat Exchangers with Louver Fins. Applied Mechanics and Materials, 2015, 798, 205-209.	0.2	0
56	Continuous Improvements Analysis in Energy Efficiency of Steering Power Systems to Light Vehicles. Applied Mechanics and Materials, 2015, 798, 92-96.	0.2	0
57	Theoretical Development. SpringerBriefs in Applied Sciences and Technology, 2015, , 9-21.	0.4	0
58	Numerical Computation and Analysis of the Numerical Scheme Order of the Two-Dimensional Temperature Field of Thermoelectric Coolers Cold Substrate. International Journal of Applied and Computational Mathematics, 2017, 3, 91-106.	1.6	0
59	Numerical Simulation of a Single-compartment Household Refrigerator During Start-up Transient and Stationary Cyclic Operation with Different Refrigerant Charges. Arabian Journal for Science and Engineering, 2021, 46, 7533-7542.	3.0	0
60	Numerical Results and Discussions. SpringerBriefs in Applied Sciences and Technology, 2015, , 41-62.	0.4	0
61	Computational Procedure. SpringerBriefs in Applied Sciences and Technology, 2015, , 23-40.	0.4	0
62	On the force scheme influence on pseudopotential method coexistence curve. Physica A: Statistical Mechanics and Its Applications, 2022, , 127411.	2.6	0
63	Project of a cogeneration system using biogas. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2022, 43, 31.	0.1	0