# 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 | 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 |
| 2 | 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 |
| 3 | Thermodynamic Irreversibility Analysis of Dual-Skin Chest-Freezer. Entropy, 2022, 24, 453. | 2.2 | 1 |
| 4 | 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 |
| 5 | On the force scheme influence on pseudopotential method coexistence curve. Physica A: Statistical Mechanics and Its Applications, 2022, , 127411. | 2.6 | 0 |
| 6 | Pseudopotential Lattice Boltzmann Method for boiling heat transfer: A mesh refinement procedure. Applied Thermal Engineering, 2022, 213, 118705. | 6.0 | 5 |
| 7 | Project of a cogeneration system using biogas. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2022, 43, 31. | 0.1 | 0 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Force approach for the pseudopotential lattice Boltzmann method. Physical Review E, 2020, 102, 033307. | 2.1 | 7 |
| 17 | Simulation of Boiling Heat Transfer at Different Reduced Temperatures with an Improved Pseudopotential Lattice Boltzmann Method. Symmetry, 2020, 12, 1358. | 2.2 | 6 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Closed form relationships of temperature effectiveness of cross-flow heat exchangers. Thermal Science and Engineering Progress, 2019, 9, 110-120. | 2.7 | 8 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Numerical Analyses for Low Reynolds Flow in a Ventricular Assist Device. Artificial Organs, 2017, 41, E30-E40. | 1.9 | 19 |
| 25 | A modified approach for numerical simulation of capillary tube-suction line heat exchangers. Applied Thermal Engineering, 2016, 102, 283-292. | 6.0 | 6 |
| 26 | Damping coefficient and contact duration relations for continuous nonlinear spring-dashpot contact model in DEM. Powder Technology, 2016, 302, 462-479. | 4.2 | 27 |
| 27 | 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 |
| 28 | Assessment of the Fluid Dynamics Aspects of a Vehicle Ventilation System. International Journal of Ventilation, 2015, 14, 65-76. | 0.4 | 2 |
| 29 | Fluid Dynamic Simulation and Optimization of Compact Heat Exchangers with Louver Fins. Applied Mechanics and Materials, 2015, 798, 205-209. | 0.2 | 0 |
| 30 | Continuous Improvements Analysis in Energy Efficiency of Steering Power Systems to Light Vehicles. Applied Mechanics and Materials, 2015, 798, 92-96. | 0.2 | 0 |
| 31 | Theoretical Development. SpringerBriefs in Applied Sciences and Technology, 2015, , 9-21. | 0.4 | 0 |
| 32 | Numerical Results and Discussions. SpringerBriefs in Applied Sciences and Technology, 2015, , 41-62. | 0.4 | 0 |
| 33 | Computational Procedure. SpringerBriefs in Applied Sciences and Technology, 2015, , 23-40. | 0.4 | 0 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Energy and exergy analysis of the airflow inside a solar chimney. Renewable and Sustainable Energy Reviews, 2013, 27, 350-361. | 16.4 | 50 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Using engine exhaust gas as energy source for an absorption refrigeration system. Applied Energy, 2010, 87, 1141-1148. | 10.1 | 146 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Thermal Performance of Multipass Parallel and Counter-Cross-Flow Heat Exchangers. Journal of Heat Transfer, 2007, 129, 282-290. | 2.1 | 26 |
| 49 | Effectiveness-ntu computation with a mathematical model for cross-flow heat exchangers. Brazilian Journal of Chemical Engineering, 2007, 24, 509-521. | 1.3 | 58 |
| 50 | THE ADVANTAGES OF EVAPORATION IN MICRO-SCALE CHANNELS TO COOL MICROELETRONIC DEVICES. Revista De Engenharia TÃ©rmica, 2007, 6, 34. | 0.2 | 5 |
| 51 | Numerical simulation of a radial diffuser turbulent airflow. Applied Mathematics and Computation, 2007, 189, 1491-1504. | 2.2 | 13 |
| 52 | 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 |
| 53 | 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 |
| 54 | Collisional solid's pressure impact on numerical results from a traditional two-fluid model. Powder Technology, 2005, 149, 78-83. | 4.2 | 9 |

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| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | Heat Exchanger Study fir Ethanol Vaporization to Fuel Otto Cycle Engines. , 0, , . | | 0 |
| 61 | 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 |
| 62 | 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 |
| 63 | Simplified approach for simulating hermetic compressor startup regime. The Academic Society Journal, 0, , 13-28. | 0.1 | 1 |