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List of Publications by Year in descending order

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52
papers

1,143
citations

471371
17
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all docs

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docs citations

53
times ranked

804
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of boiling and condensation heat transfer correlations in the modelling of plate heat exchangers. <i>International Journal of Refrigeration</i> , 2007, 30, 1029-1041.	1.8	159
2	On the extension of the AUSM+ scheme to compressible two-fluid models. <i>Computers and Fluids</i> , 2003, 32, 891-916.	1.3	132
3	Improving the Electrical Parameters of a Photovoltaic Panel by Means of an Induced or Forced Air Stream. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-10.	1.4	93
4	Experimental study of cooling BIPV modules by forced convection in the air channel. <i>Applied Energy</i> , 2014, 135, 88-97.	5.1	93
5	Experimental two-phase heat transfer coefficient and frictional pressure drop inside mini-channels during condensation with R1234yf and R134a. <i>International Journal of Refrigeration</i> , 2015, 51, 12-23.	1.8	67
6	Advanced three-dimensional two-phase flow simulation tools for application to reactor safety (ASTAR). <i>Nuclear Engineering and Design</i> , 2005, 235, 379-400.	0.8	45
7	Compact heat exchangers modeling: Condensation. <i>International Journal of Refrigeration</i> , 2010, 33, 135-147.	1.8	38
8	Experimental condensing two-phase frictional pressure drop inside mini-channels. Comparisons and new model development. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 581-591.	2.5	36
9	R32 and R410A condensation heat transfer coefficient and pressure drop within minichannel multiport tube. Experimental technique and measurements. <i>Applied Thermal Engineering</i> , 2016, 105, 118-131.	3.0	31
10	A simplified model for shell-and-tubes heat exchangers: Practical application. <i>Applied Thermal Engineering</i> , 2010, 30, 1231-1241.	3.0	30
11	Condensing two-phase pressure drop and heat transfer coefficient of propane in a horizontal multiport mini-channel tube: Experimental measurements. <i>International Journal of Refrigeration</i> , 2016, 68, 59-75.	1.8	28
12	Analysis of the optimal gas cooler pressure of a CO2 heat pump with gas bypass for hot water generation. <i>Applied Thermal Engineering</i> , 2021, 182, 116110.	3.0	27
13	Two phase flow pressure drop in multiport mini-channel tubes using R134a and R32 as working fluids. <i>International Journal of Thermal Sciences</i> , 2015, 92, 17-33.	2.6	25
14	Use of a predictive control to improve the energy efficiency in indoor swimming pools using solar thermal energy. <i>Solar Energy</i> , 2019, 179, 380-390.	2.9	25
15	Experimental assessment of the replacement of a conventional fin-and-tube condenser by a minichannel heat exchanger in an air/water chiller for residential air conditioning. <i>Energy and Buildings</i> , 2017, 144, 104-116.	3.1	22
16	Modelling an absorption system assisted by solar energy. <i>Applied Thermal Engineering</i> , 2011, 31, 112-118.	3.0	19
17	Assessment of condensation heat transfer correlations in the modelling of fin and tube heat exchangers. <i>International Journal of Refrigeration</i> , 2007, 30, 1018-1028.	1.8	17
18	On the accuracy of RANS, DES and LES turbulence models for predicting drag reduction with Base Bleed technology. <i>Aerospace Science and Technology</i> , 2017, 67, 126-140.	2.5	17

#	ARTICLE	IF	CITATIONS
19	GMDH ANN to optimise model development: Prediction of the pressure drop and the heat transfer coefficient during condensation within mini-channels. Applied Thermal Engineering, 2018, 144, 321-330.	3.0	16
20	Assessment of boiling heat transfer correlations in the modelling of fin and tube heat exchangers. International Journal of Refrigeration, 2007, 30, 1004-1017.	1.8	15
21	Experimental comparison of an air-to-water refrigeration system working with R134a and R1234yf. International Journal of Refrigeration, 2019, 97, 124-131.	1.8	15
22	Application of AUSM schemes to multi-dimensional compressible two-phase flow problems. Nuclear Engineering and Design, 2006, 236, 1225-1239.	0.8	14
23	Energy efficiency evaluation of the use of R513A as a drop-in replacement for R134a in a water chiller with a minichannel condenser for air-conditioning applications. Applied Thermal Engineering, 2021, 182, 115915.	3.0	14
24	Experimental characterization of the coupling and heating performance of a CO ₂ water-to-water heat pump and a water storage tank for domestic hot water production system. Energy and Buildings, 2022, 265, 112085.	3.1	14
25	Dynamic simulation model and empirical validation for estimating thermal energy demand in indoor swimming pools. Energy Efficiency, 2020, 13, 955-970.	1.3	13
26	Heat transfer coefficient during condensation inside a minichannel multiport tube with R32 and R410A as working fluids. Science and Technology for the Built Environment, 2015, 21, 535-544.	0.8	12
27	Experimental and numerical study of a CO ₂ water-to-water heat pump for hot water generation. International Journal of Refrigeration, 2021, 132, 30-44.	1.8	12
28	An approach formulated in terms of conserved variables for the characterisation of propellant combustion in internal ballistics. International Journal for Numerical Methods in Fluids, 2015, 79, 394-415.	0.9	11
29	Extension of some numerical schemes to the analysis of gas and particle mixtures. International Journal for Numerical Methods in Fluids, 2008, 56, 845-875.	0.9	10
30	Impact of an internal heat exchanger on a transcritical CO ₂ heat pump under optimal pressure conditions. Applied Thermal Engineering, 2022, 215, 118991.	3.0	10
31	Advances in the characterisation of reactive gas and solid mixtures under low pressure conditions. Computers and Fluids, 2014, 101, 64-87.	1.3	9
32	Performance comparison of an air/water heat pump using a minichannel coil as evaporator in replacement of a fin-and-tube heat exchanger. International Journal of Refrigeration, 2017, 74, 560-575.	1.8	9
33	Development of a IRSN code for dust mobilisation problems in ITER. Fusion Engineering and Design, 2010, 85, 2274-2281.	1.0	8
34	NON-UNIFORM CONDENSATION OF REFRIGERANT R134A IN MINI-CHANNEL MULTI-PORT TUBES: TWO-PHASE PRESSURE DROP AND HEAT TRANSFER COEFFICIENT. Journal of Enhanced Heat Transfer, 2015, 22, 391-416.	0.5	7
35	Modelling detonation of H ₂ -O ₂ -N ₂ mixtures in presence of solid particles in 3D scenarios. International Journal of Hydrogen Energy, 2016, 41, 17154-17168.	3.8	7
36	Advances in the Characterization of Transient Two-Phase Flow. AIAA Journal, 2007, 45, 2579-2584.	1.5	6

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37	Three-Dimensional Numerical Modeling of Internal Ballistics for Solid Propellant Combinations. Mathematics, 2021, 9, 2714.	1.1	5
38	Characterisation of metal combustion with DUST code. Fusion Engineering and Design, 2015, 98-99, 2142-2146.	1.0	4
39	An Energetic Model for Detonation of Granulated Solid Propellants. Energies, 2019, 12, 4459.	1.6	4
40	Evaluation of different models for turbulent combustion of hydrogen-air mixtures. Large Eddy Simulation of a LOVA sequence with hydrogen deflagration in ITER Vacuum Vessel. Fusion Engineering and Design, 2020, 161, 111901.	1.0	4
41	R1234YF Heat Transfer Coefficient During Condensation in a Mini-Channel Multiport Tube. , 2014, , .		3
42	Extension of a high-resolution scheme to 1D liquid-gas flow. International Journal for Numerical Methods in Fluids, 2006, 50, 1063-1084.	0.9	2
43	Some advances in the characterization of gas and solid mixtures under low pressure conditions. AIP Conference Proceedings, 2012, , .	0.3	2
44	Validation of a Multi-Dimensional Model for Unsteady Combustion of AP/HTPB Propellants. Propellants, Explosives, Pyrotechnics, 2019, 44, 1482-1493.	1.0	2
45	Mathematical Modelling of Turbulent Combustion of Two-Phase Mixtures of Gas and Solid Particles with a Eulerian-Eulerian Approach: The Case of Hydrogen Combustion in the Presence of Graphite Particles. Mathematics, 2021, 9, 2017.	1.1	2
46	Development of an Installation to Reduce the Temperature Photovoltaic Modules and Improve Efficiency. Renewable Energy and Power Quality Journal, 2010, 1, 893-898.	0.2	2
47	Experimental study of BIPV(Building integrated photovoltaics) modules running as solar passive air heaters for the regeneration of a desiccant wheel. , 2015, , .		0
48	A discussion about the methodology for validating a model of a finned-tube condenser considering different correlations for the heat transfer coefficients and pressure drop. Science and Technology for the Built Environment, 2015, 21, 585-594.	0.8	0
49	Capabilities and limitations of Large Eddy Simulation with perfectly stirred reactor assumption for engineering applications of unsteady, hydrogen combustion sequences. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1452-1472.	1.5	0
50	Analysis of Several Numerical Schemes for the Characterization of Solid Propellant Combustion. , 0, , .		0
51	Probase: a Software Application to Estimate Drag in Base Bleed Technology Units using Large Eddy Simulation. , 0, , .		0
52	Numerical study on the influence of internal heat exchanger in transcritical CO ₂ heat pumps under optimal pressure conditions. Journal of Physics: Conference Series, 2021, 2116, 012098.	0.3	0