Carles Oliet Casasayas

List of Publications by Year
in descending order

30 papers	467 citations	759233 12 h-index	713466 21 g-index
30 all docs	30 docs citations	30 times ranked	390 citing authors

#	Article	IF	Citations
1	Parametric studies on automotive radiators. Applied Thermal Engineering, 2007, 27, 2033-2043.	6.0	92
2	Two-phase flow distribution in multiple parallel tubes. International Journal of Thermal Sciences, 2010, 49, 909-921.	4.9	49
3	Drain water heat recovery storage-type unit for residential housing. Applied Thermal Engineering, 2016, 103, 670-683.	6.0	42
4	Comparison of the performance of falling film and bubble absorbers for air-cooled absorption systems. International Journal of Thermal Sciences, 2009, 48, 1355-1366.	4.9	31
5	Analysis and design of a drain water heat recovery storage unit based on PCM plates. Applied Energy, 2016, 179, 1006-1019.	10.1	31
6	Modelling of the heat exchangers of a small capacity, hot water driven, air-cooled H_2O–LiBr absorption cooling machine. International Journal of Refrigeration, 2008, 31, 75-86.	3.4	25
7	Heat and moisture insulation by means of air curtains: Application to refrigerated chambers. International Journal of Refrigeration, 2016, 68, 1-14.	3.4	20
8	Thermal and Fluid Dynamic Simulation of Automotive Fin-and-Tube Heat Exchangers, Part 1: Mathematical Model. Heat Transfer Engineering, 2008, 29, 484-494.	1.9	19
9	A finite volume method to solve the frost growth using dynamic meshes. International Journal of Heat and Mass Transfer, 2018, 124, 615-628.	4.8	19
10	A simple optimization approach for the insulation thickness distribution in household refrigerators. International Journal of Refrigeration, 2018, 93, 169-175.	3.4	14
11	Analysis of the Dynamic Behavior of Refrigerated Spaces Using Air Curtains. Numerical Heat Transfer; Part A: Applications, 2009, 55, 553-573.	2.1	13
12	An immersed boundary method to conjugate heat transfer problems in complex geometries. Application to an automotive antenna. Applied Thermal Engineering, 2019, 148, 907-928.	6.0	13
13	Thermal and Fluid Dynamic Simulation of Automotive Fin-and-Tube Heat Exchangers, Part 2: Experimental Comparison. Heat Transfer Engineering, 2008, 29, 495-502.	1.9	12
14	Large Eddy Simulations (LES) on the Flow and Heat Transfer in a Wall-Bounded Pin Matrix. Numerical Heat Transfer, Part B: Fundamentals, 2014, 65, 103-128.	0.9	12
15	Energy and exergy analysis of an absorption system with working pairs LiBr-H combined math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O and Carrol-H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O at applications of cooling and heating. International Journal of Refrigeration, 2021, 132, 154-171.	3.4	11
16	Computational investigation of the hexagonal honeycomb adsorption reactor for cooling applications. Applied Thermal Engineering, 2022, 202, 117807.	6.0	11
17	Numerical and experimental study of absorption of H_2O vapor in wavy falling film of LiBr aqueous solution in vertical tubes and in presence of non-absorbables. International Journal of Refrigeration, 2019, 100, 184-195.	3.4	10
18	Transient model for the development of an air-cooled LiBr-H_2O absorption chiller based on heat and mass transfer empirical correlations. International Journal of Refrigeration, 2020, 120, 406-419.	3.4	10

#	Article	IF	Citations
19	Numerical simulation of dehumidifying fin-and-tube heat exchangers: Semi-analytical modelling and experimental comparison. International Journal of Refrigeration, 2007, 30, 1266-1277.	3.4	9
20	Numerical simulation of non-adiabatic capillary tubes. Special emphasis on the near-saturation zone. International Journal of Refrigeration, 2015, 55, 153-167.	3.4	6
21	On a Proper Tensor-Diffusivity Model for Large-Eddy Simulation of Buoyancy-Driven Turbulence. Flow, Turbulence and Combustion, 2020, 105, 393-414.	2.6	6
22	Multidimensional and Unsteady Simulation of Fin-and-Tube Heat Exchangers. Numerical Heat Transfer; Part A: Applications, 2009, 56, 193-210.	2.1	5
23	Modelling of fin-and-tube evaporators considering non-uniform in-tube heat transfer. International Journal of Thermal Sciences, 2010, 49, 692-701.	4.9	4
24	Frost Formation: Optimizing solutions under a finite volume approach. Journal of Physics: Conference Series, 2016, 745, 032062.	0.4	2
25	Critical Analysis of the Available Ammonia Horizontal In-Tube Flow Boiling Heat Transfer Correlations for Liquid Overfeed Evaporators. Journal of Heat Transfer, 2008, 130, .	2.1	1
26	Experimental Facility for the Study of Liquid Overfeed Fin-and-Tube Evaporators: Validation of Numerical Models. HVAC and R Research, 2008, 14, 221-238.	0.6	0
27	Minimization procedure of experimental tests for calibration purposes, within HVAC&R energy efficiency framework. E3S Web of Conferences, 2019, 111, 04020.	0.5	0
28	Dynamic simulation of indirect air conditioning systems with optimized computational time. E3S Web of Conferences, 2019, 111, 04042.	0.5	0
29	Flow and Heat Transfer in a Wall-Bounded Pin Matrix. , 2012, , .		0
30	Dynamic Numerical Simulation of a Mechanical Vapour Compression (MVC) Desalination System That Use Renewable Source Energy. , 2017, , .		0