Lorenzo Cremaschi

List of Publications by Year
in descending order

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41 papers	580 citations	687363 13 h-index	642732 23 g-index
41 all docs	41 docs citations	41 times ranked	359 citing authors

#	Article	IF	Citations
1	Review of moisture behavior and thermal performance of polystyrene insulation in building applications. Building and Environment, 2017, 123, 50-65.	6.9	71
2	Experimental measurements of the surface coating and water retention effects on frosting performance of microchannel heat exchangers for heat pump systems. Experimental Thermal and Fluid Science, 2012, 39, 176-188.	2.7	66
3	Experimental investigation of oil retention in air conditioning systems. International Journal of Refrigeration, 2005, 28, 1018-1028.	3.4	46
4	Experimental investigation of the surface temperature and water retention effects on the frosting performance of a compact microchannel heat exchanger for heat pump systems. International Journal of Refrigeration, 2012, 35, 171-186.	3.4	40
5	Experimental investigation of adverse effect of frost formation on microchannel evaporators, part 1: Effect of fin geometry and environmental effects. International Journal of Refrigeration, 2013, 36, 1762-1775.	3.4	40
6	Experimental study of oil retention in microchannel type evaporators of air-source heat pump systems. International Journal of Refrigeration, 2018, 91, 158-166.	3.4	23
7	Modeling of Oil Retention in the Suction Line and Evaporator of Air-Conditioning Systems. HVAC and R Research, 2006, 12, 35-56.	0.6	20
8	Effect of Fouling on the Thermal Performance of Condensers and on the Water Consumption in Cooling Tower Systems. Heat Transfer Engineering, 2015, 36, 663-675.	1.9	20
9	Effects of discrete-electrode configuration on traveling-wave electrohydrodynamic pumping. Microfluidics and Nanofluidics, 2009, 6, 221-230.	2.2	18
10	Effects of frost growth on louvered folded fins of microchannel heat exchangers on the time-dependent air side convective heat transfer coefficient. Experimental Thermal and Fluid Science, 2017, 88, 326-335.	2.7	17
11	Effect of nanoparticle additives on the refrigerant and lubricant mixtures heat transfer coefficient during in-tube single-phase heating and two-phase flow boiling. International Journal of Refrigeration, 2020, 110, 142-152.	3.4	17
12	Oil retention in a microchannel type condenser and its effects on heat transfer rate performance and on the pressure drop. Science and Technology for the Built Environment, 2017, 23, 166-180.	1.7	16
13	Moisture behavior of polystyrene insulation in below-grade application. Energy and Buildings, 2018, 159, 24-38.	6.7	15
14	Pipe insulation thermal conductivity under dry and wet condensing conditions with moisture ingress: A critical review. HVAC and R Research, 2014, 20, 458-479.	0.6	14
15	Experimental analysis and modeling of lubricant effects in microchannel evaporators working with low global warming potential refrigerants. Science and Technology for the Built Environment, 2016, 22, 1104-1117.	1.7	14
16	Waterside fouling performance in brazed-plate-type condensers for cooling tower applications. HVAC and R Research, 2011, 17, 198-217.	0.6	13
17	Oil retention in microchannel heat exchangers of an R134a refrigeration system and effects on their energy performance and system COP. Science and Technology for the Built Environment, 2019, 25, 272-281.	1.7	13
18	Thermodynamic properties of Al2O3nanolubricants: Part 1â€"Effects on the two-phase pressure drop. Science and Technology for the Built Environment, 2015, 21, 607-620.	1.7	12

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19	Experimental feasibility study of a new load-based method of testing for light commercial unitary heating, ventilation, and air conditioning (ASHRAE RP-1608). Science and Technology for the Built Environment, 2017, 23, 1178-1188.	1.7	11
20	Distribution, coalescence, and freezing characteristics of water droplets on surfaces with different wettabilities under subfreezing convective flow. Applied Thermal Engineering, 2021, 182, 116052.	6.0	11
21	Nanolubricants flow boiling heat transfer enhancement in a microfin tube evaporatorâ€"IRG0021. Science and Technology for the Built Environment, 2017, 23, 960-969.	1.7	10
22	Electrocaloric devices part I: Analytical solution of one-dimensional transient heat conduction in a multilayer electrocaloric system. Journal of Advanced Dielectrics, 2020, 10, 2050028.	2.4	9
23	Electrocaloric devices part II: All-solid heat pump without moving parts. Journal of Advanced Dielectrics, 2020, 10, 2050029.	2.4	8
24	COMPARISON OF FROST AND DEFROST PERFORMANCE BETWEEN MICROCHANNEL COIL AND FIN-AND-TUBE COIL FOR HEAT PUMP SYSTEMS. International Journal of Air-Conditioning and Refrigeration, 2011, 19, 273-284.	0.7	7
25	Developing empirical correlations for frost thickness and air face velocity degradation for microchannel heat exchangers used in heat pump applications under frosting conditions. HVAC and R Research, 2013, 19, 779-787.	0.6	7
26	Thermal performance and moisture accumulation of fibrous mechanical pipe insulation systems operating at below-ambient temperature in wet conditions with moisture ingress. Science and Technology for the Built Environment, 2015, 21, 862-875.	1.7	7
27	Study of the meso-structure and its impact on the thermal performance of closed-cell insulation with moisture ingress. Procedia Engineering, 2017, 205, 2823-2830.	1.2	6
28	Experimental study on the thermal conductivity and moisture ingress in closed-cell mechanical pipe insulation systems at below ambient conditions (ASHRAE RP-1646). Science and Technology for the Built Environment, 2016, 22, 201-213.	1.7	3
29	Modeling, case studies, and optimization methods for building energy systems. Science and Technology for the Built Environment, 2018, 24, 325-326.	1.7	3
30	Modeling of oil retention in microchannel type evaporators and its effects on refrigerant heat transfer. International Journal of Refrigeration, 2018, 92, 27-36.	3.4	3
31	Effect of mixed hydrophilic and hydrophobic surface coatings on droplets freezing and subsequent frost growth during air forced convection channel flows. Science and Technology for the Built Environment, 2019, 25, 1302-1312.	1.7	3
32	Experimental investigation of two phase flow boiling heat transfer of mixtures of refrigerant R410A and nanolubricants in a horizontal smooth copper tube. Science and Technology for the Built Environment, 2020, 26, 449-464.	1.7	3
33	Effect of internal structure on dynamically coupled heat and moisture transfer in closed-cell thermal insulation. International Journal of Heat and Mass Transfer, 2022, 185, 122391.	4.8	3
34	A Fundamental View of the Flow Boiling Heat Transfer Characteristics of Nano-Refrigerants. , 2012, , .		2
35	Theoretical Investigation of Al2O3 Nanoparticle Slip Mechanisms in High-Viscosity Two-Component Mixture in Two-Phase Flow. Journal of Heat Transfer, 2019, 141, .	2.1	2
36	A New Thermodynamic and Heat Transfer Model for Nanolubricants and Refrigerant Heat Transfer Processes in Smooth Copper Tubes. Journal of Heat Transfer, 2020, 142, .	2.1	2

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37	TWO PHASE FLOW BOILING HEAT TRANSFER COEFFICIENT AND PRESSURE DROP OF REFRIGERANT AND Î³-Al2O3 BASED NANOLUBRICANT MIXTURES IN A 9.5 MM SMOOTH TUBE.. , 2017, , .		2
38	Effects of crystal formation on the initial frost thickness and density on cold surfaces. International Journal of Refrigeration, 2022, , .	3.4	2
39	EFFECT OF HUMIDITY AND AIRFLOW VELOCITY ON DROPLETS ELAPSED TIME AND RADIUS AT THE ONSET OF FREEZING AND FROST NUCLEATION FOR SUPER-HYDROPHILIC AND SUPERHYDROPHOBIC SURFACES. , 2019, , .		1
40	Recent advances on heat and mass transfer in refrigeration and air-conditioning systems. Science and Technology for the Built Environment, 2017, 23, 871-874.	1.7	0
41	Cutting edge research and new technologies in heat and mass transfer processes of refrigeration and air conditioning systems. Science and Technology for the Built Environment, 2019, 25, 1269-1270.	1.7	0