

Lorenzo Cremaschi

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

580
citations

687363

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docs citations

41
times ranked

359
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of internal structure on dynamically coupled heat and moisture transfer in closed-cell thermal insulation. <i>International Journal of Heat and Mass Transfer</i> , 2022, 185, 122391.	4.8	3
2	Effects of crystal formation on the initial frost thickness and density on cold surfaces. <i>International Journal of Refrigeration</i> , 2022, , .	3.4	2
3	Distribution, coalescence, and freezing characteristics of water droplets on surfaces with different wettabilities under subfreezing convective flow. <i>Applied Thermal Engineering</i> , 2021, 182, 116052.	6.0	11
4	Effect of nanoparticle additives on the refrigerant and lubricant mixtures heat transfer coefficient during in-tube single-phase heating and two-phase flow boiling. <i>International Journal of Refrigeration</i> , 2020, 110, 142-152.	3.4	17
5	Experimental investigation of two phase flow boiling heat transfer of mixtures of refrigerant R410A and nanolubricants in a horizontal smooth copper tube. <i>Science and Technology for the Built Environment</i> , 2020, 26, 449-464.	1.7	3
6	Electrocaloric devices part II: All-solid heat pump without moving parts. <i>Journal of Advanced Dielectrics</i> , 2020, 10, 2050029.	2.4	8
7	A New Thermodynamic and Heat Transfer Model for Nanolubricants and Refrigerant Heat Transfer Processes in Smooth Copper Tubes. <i>Journal of Heat Transfer</i> , 2020, 142, .	2.1	2
8	Electrocaloric devices part I: Analytical solution of one-dimensional transient heat conduction in a multilayer electrocaloric system. <i>Journal of Advanced Dielectrics</i> , 2020, 10, 2050028.	2.4	9
9	Effect of mixed hydrophilic and hydrophobic surface coatings on droplets freezing and subsequent frost growth during air forced convection channel flows. <i>Science and Technology for the Built Environment</i> , 2019, 25, 1302-1312.	1.7	3
10	Theoretical Investigation of Al ₂ O ₃ Nanoparticle Slip Mechanisms in High-Viscosity Two-Component Mixture in Two-Phase Flow. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	2
11	Cutting edge research and new technologies in heat and mass transfer processes of refrigeration and air conditioning systems. <i>Science and Technology for the Built Environment</i> , 2019, 25, 1269-1270.	1.7	0
12	Oil retention in microchannel heat exchangers of an R134a refrigeration system and effects on their energy performance and system COP. <i>Science and Technology for the Built Environment</i> , 2019, 25, 272-281.	1.7	13
13	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
14	Modeling, case studies, and optimization methods for building energy systems. <i>Science and Technology for the Built Environment</i> , 2018, 24, 325-326.	1.7	3
15	Moisture behavior of polystyrene insulation in below-grade application. <i>Energy and Buildings</i> , 2018, 159, 24-38.	6.7	15
16	Modeling of oil retention in microchannel type evaporators and its effects on refrigerant heat transfer. <i>International Journal of Refrigeration</i> , 2018, 92, 27-36.	3.4	3
17	Experimental study of oil retention in microchannel type evaporators of air-source heat pump systems. <i>International Journal of Refrigeration</i> , 2018, 91, 158-166.	3.4	23
18	Experimental feasibility study of a new load-based method of testing for light commercial unitary heating, ventilation, and air conditioning (ASHRAE RP-1608). <i>Science and Technology for the Built Environment</i> , 2017, 23, 1178-1188.	1.7	11

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19	Oil retention in a microchannel type condenser and its effects on heat transfer rate performance and on the pressure drop. <i>Science and Technology for the Built Environment</i> , 2017, 23, 166-180.	1.7	16
20	Recent advances on heat and mass transfer in refrigeration and air-conditioning systems. <i>Science and Technology for the Built Environment</i> , 2017, 23, 871-874.	1.7	0
21	Nanolubricants flow boiling heat transfer enhancement in a microfin tube evaporatorâ€”IRG0021. <i>Science and Technology for the Built Environment</i> , 2017, 23, 960-969.	1.7	10
22	Effects of frost growth on louvered folded fins of microchannel heat exchangers on the time-dependent air side convective heat transfer coefficient. <i>Experimental Thermal and Fluid Science</i> , 2017, 88, 326-335.	2.7	17
23	Review of moisture behavior and thermal performance of polystyrene insulation in building applications. <i>Building and Environment</i> , 2017, 123, 50-65.	6.9	71
24	Study of the meso-structure and its impact on the thermal performance of closed-cell insulation with moisture ingress. <i>Procedia Engineering</i> , 2017, 205, 2823-2830.	1.2	6
25	TWO PHASE FLOW BOILING HEAT TRANSFER COEFFICIENT AND PRESSURE DROP OF REFRIGERANT AND Al_2O_3 BASED NANOLUBRICANT MIXTURES IN A 9.5 MM SMOOTH TUBE.. , 2017, , .		2
26	Experimental analysis and modeling of lubricant effects in microchannel evaporators working with low global warming potential refrigerants. <i>Science and Technology for the Built Environment</i> , 2016, 22, 1104-1117.	1.7	14
27	Experimental study on the thermal conductivity and moisture ingress in closed-cell mechanical pipe insulation systems at below ambient conditions (ASHRAE RP-1646). <i>Science and Technology for the Built Environment</i> , 2016, 22, 201-213.	1.7	3
28	Thermodynamic properties of Al_2O_3 nanolubricants: Part 1â€”Effects on the two-phase pressure drop. <i>Science and Technology for the Built Environment</i> , 2015, 21, 607-620.	1.7	12
29	Thermal performance and moisture accumulation of fibrous mechanical pipe insulation systems operating at below-ambient temperature in wet conditions with moisture ingress. <i>Science and Technology for the Built Environment</i> , 2015, 21, 862-875.	1.7	7
30	Effect of Fouling on the Thermal Performance of Condensers and on the Water Consumption in Cooling Tower Systems. <i>Heat Transfer Engineering</i> , 2015, 36, 663-675.	1.9	20
31	Pipe insulation thermal conductivity under dry and wet condensing conditions with moisture ingress: A critical review. <i>HVAC and R Research</i> , 2014, 20, 458-479.	0.6	14
32	Experimental investigation of adverse effect of frost formation on microchannel evaporators, part 1: Effect of fin geometry and environmental effects. <i>International Journal of Refrigeration</i> , 2013, 36, 1762-1775.	3.4	40
33	Developing empirical correlations for frost thickness and air face velocity degradation for microchannel heat exchangers used in heat pump applications under frosting conditions. <i>HVAC and R Research</i> , 2013, 19, 779-787.	0.6	7
34	A Fundamental View of the Flow Boiling Heat Transfer Characteristics of Nano-Refrigerants. , 2012, , .		2
35	Experimental measurements of the surface coating and water retention effects on frosting performance of microchannel heat exchangers for heat pump systems. <i>Experimental Thermal and Fluid Science</i> , 2012, 39, 176-188.	2.7	66
36	Experimental investigation of the surface temperature and water retention effects on the frosting performance of a compact microchannel heat exchanger for heat pump systems. <i>International Journal of Refrigeration</i> , 2012, 35, 171-186.	3.4	40

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37	Waterside fouling performance in brazed-plate-type condensers for cooling tower applications. HVAC and R Research, 2011, 17, 198-217.	0.6	13
38	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
39	Effects of discrete-electrode configuration on traveling-wave electrohydrodynamic pumping. Microfluidics and Nanofluidics, 2009, 6, 221-230.	2.2	18
40	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
41	Experimental investigation of oil retention in air conditioning systems. International Journal of Refrigeration, 2005, 28, 1018-1028.	3.4	46