

Luca Doretti

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,374
citations

759233

12
h-index

752698

20
g-index

24
all docs

24
docs citations

24
times ranked

772
citing authors

#	ARTICLE	IF	CITATIONS
1	Condensation in Horizontal Smooth Tubes: A New Heat Transfer Model for Heat Exchanger Design. Heat Transfer Engineering, 2006, 27, 31-38.	1.9	416
2	Condensation of Halogenated Refrigerants Inside Smooth Tubes. HVAC and R Research, 2002, 8, 429-451.	0.6	212
3	Experimental analysis of phase change phenomenon of paraffin waxes embedded in copper foams. International Journal of Thermal Sciences, 2015, 90, 79-89.	4.9	202
4	Update on Condensation Heat Transfer and Pressure Drop inside Minichannels. Heat Transfer Engineering, 2006, 27, 74-87.	1.9	112
5	Condensation Heat Transfer and Pressure Gradient Inside Multiport Minichannels. Heat Transfer Engineering, 2005, 26, 45-55.	1.9	89
6	A New Computational Procedure for Heat Transfer and Pressure Drop During Refrigerant Condensation Inside Enhanced Tubes. Journal of Enhanced Heat Transfer, 1999, 6, 441-456.	1.1	59
7	Experimental study of phase change material (PCM) embedded in 3D periodic structures realized via additive manufacturing. International Journal of Thermal Sciences, 2020, 153, 106376.	4.9	56
8	R134a and R1234ze(E) liquid and flow boiling heat transfer in a high porosity copper foam. International Journal of Heat and Mass Transfer, 2014, 74, 77-87.	4.8	47
9	Low-GWP refrigerants flow boiling heat transfer in a 5 PPI copper foam. International Journal of Multiphase Flow, 2015, 76, 111-121.	3.4	41
10	On the design of Phase Change Materials based thermal management systems for electronics cooling. Applied Thermal Engineering, 2021, 196, 117276.	6.0	25
11	A simplified analytical approach for concrete sensible thermal energy storages simulation. Journal of Energy Storage, 2019, 22, 68-79.	8.1	20
12	Water pool boiling across low pore density aluminum foams. Heat Transfer Engineering, 2020, 41, 1673-1682.	1.9	13
13	A Model for Condensation Inside Minichannels. , 2005, , 297.		11
14	Saturated R134a flow boiling inside a 4.3mm inner diameter microfin tube. Science and Technology for the Built Environment, 2017, 23, 933-945.	1.7	11
15	Numerical analyses of concrete thermal energy storage systems: effect of the modules arrangement. Energy Reports, 2020, 6, 199-214.	5.1	11
16	Experimental investigation of phase change of medium/high temperature paraffin wax embedded in 3D periodic structure. International Journal of Thermofluids, 2020, 5-6, 100035.	7.8	9
17	Flow boiling heat transfer on a Carbon/Carbon surface. International Journal of Heat and Mass Transfer, 2017, 109, 938-948.	4.8	8
18	3D numerical simulation of a novel ventilated roof: thermal performance analysis and fluid flow behavior. Science and Technology for the Built Environment, 2021, 27, 819-831.	1.7	7

#	ARTICLE	IF	CITATIONS
19	Numerical simulation through experimental validation of latent and sensible concrete thermal energy storage system. Journal of Energy Storage, 2022, 51, 104567.	8.1	7
20	On the hysteresis phenomenon during flow boiling heat transfer on a hydrophilic carbon/carbon surface. International Communications in Heat and Mass Transfer, 2020, 117, 104795.	5.6	6
21	Effects of Carbon Nanohorn Based Nanofluids Pool Boiling on Optical Properties and Wettability of Different Metal Surfaces. Heat Transfer Engineering, 2020, , 1-14.	1.9	5
22	Visualization of the Heat Transfer Enhancement During Condensation in a Microfin Tube. , 2006, , 685.		4
23	NANOPARTICLE DEPOSITION ON ROUGHENED COPPER SURFACES VIA NANOFUID POOL BOILING. , 2018, , .		2
24	R245fa FLOW BOILING HEAT TRANSFER ON AN ELECTRICALLY HEATED CARBON/CARBON SURFACE. , 2018, , .		1