Sauro Filippeschi

List of Publications by Year
in descending order

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60 papers	1,513 citations	331670 21 h-index	315739 38 g-index
60 all docs	60 docs citations	60 times ranked	713 citing authors

#	Article	IF	Citations
1	Two-phase closed thermosyphons: A review of studies and solar applications. Renewable and Sustainable Energy Reviews, 2016, 53, 575-593.	16.4	221
2	Metal foam/PCM melting evolution analysis: Orientation and morphology effects. Applied Thermal Engineering, 2021, 187, 116572.	6.0	103
3	Thermal instability of a Closed Loop Pulsating Heat Pipe: Combined effect of orientation and filling ratio. Experimental Thermal and Fluid Science, 2014, 59, 222-229.	2.7	101
4	Closed Loop Two-Phase Thermosyphon of Small Dimensions: a Review of the Experimental Results. Microgravity Science and Technology, 2012, 24, 165-179.	1.4	95
5	Unsteady experimental and numerical analysis of a two-phase closed thermosyphon at different filling ratios. Experimental Thermal and Fluid Science, 2017, 81, 164-174.	2.7	89
6	A pulsating heat pipe for space applications: Ground and microgravity experiments. International Journal of Thermal Sciences, 2015, 95, 53-63.	4.9	82
7	Experimental analysis of Closed Loop Two Phase Thermosyphon (CLTPT) for energy systems. Experimental Thermal and Fluid Science, 2013, 51, 302-311.	2.7	65
8	Experimental study of a closed loop flat plate pulsating heat pipe under a varying gravity force. International Journal of Thermal Sciences, 2015, 96, 23-34.	4.9	65
9	Thermal response of a closed loop pulsating heat pipe under a varying gravity force. International Journal of Thermal Sciences, 2014, 80, 11-22.	4.9	63
10	Hybrid Pulsating Heat Pipe for space applications with non-uniform heating patterns: Ground and microgravity experiments. Applied Thermal Engineering, 2017, 126, 1029-1043.	6.0	57
11	An experimental investigation on the evaporation and condensation heat transfer of two-phase closed thermosyphons. Experimental Thermal and Fluid Science, 2017, 88, 111-123.	2.7	55
12	Flow characterization of a pulsating heat pipe through the wavelet analysis of pressure signals. Applied Thermal Engineering, 2020, 171, 115128.	6.0	34
13	An original look into pulsating heat pipes: Inverse heat conduction approach for assessing the thermal behaviour. Thermal Science and Engineering Progress, 2019, 10, 317-326.	2.7	32
14	Thermal characterization of a multi-turn pulsating heat pipe in microgravity conditions: Statistical approach to the local wall-to-fluid heat flux. International Journal of Heat and Mass Transfer, 2021, 169, 120930.	4.8	31
15	Global and local heat transfer behaviour of a three-dimensional Pulsating Heat Pipe: combined effect of the heat load, orientation and condenser temperature. Applied Thermal Engineering, 2021, 195, 117144.	6.0	29
16	Advanced multi-evaporator loop thermosyphon. Energy, 2016, 112, 562-573.	8.8	28
17	Infrared analysis of the two phase flow in a single closed loop pulsating heat pipe. Experimental Thermal and Fluid Science, 2018, 97, 304-312.	2.7	28
18	Recommendations for neonatologists and pediatricians working in first level birthing centers on the first communication of genetic disease and malformation syndrome diagnosis: consensus issued by 6 Italian scientific societies and 4 parentsâ€™ associations. Italian Journal of Pediatrics, 2021, 47, 94.	2.6	25

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19	Developing flow pattern maps for accelerated two-phase capillary flows. Experimental Thermal and Fluid Science, 2020, 112, 109981.	2.7	24
20	Comparison between miniature periodic two-phase thermosyphons and miniature LHP applied to electronic cooling equipment. Applied Thermal Engineering, 2011, 31, 795-802.	6.0	23
21	Start-up in microgravity and local thermodynamic states of a hybrid loop thermosyphon/pulsating heat pipe. Applied Thermal Engineering, 2019, 158, 113771.	6.0	22
22	Advanced numerical method for a thermally induced slug flow: application to a capillary closed loop pulsating heat pipe. International Journal for Numerical Methods in Fluids, 2016, 82, 375-397.	1.6	16
23	An experimental investigation and optimization of screen mesh heat pipes for low-mid temperature applications. Experimental Thermal and Fluid Science, 2017, 84, 120-133.	2.7	16
24	Numerical Analysis of a Paraffin/Metal Foam Composite for Thermal Storage. Journal of Physics: Conference Series, 2017, 796, 012032.	0.4	16
25	On periodic two-phase thermosyphons operating against gravity. International Journal of Thermal Sciences, 2006, 45, 124-137.	4.9	15
26	Non equilibrium lumped parameter model for Pulsating Heat Pipes: validation in normal and hyper-gravity conditions. International Journal of Heat and Mass Transfer, 2016, 97, 473-485.	4.8	15
27	Experimental analysis and transient numerical simulation of a large diameter pulsating heat pipe in microgravity conditions. International Journal of Heat and Mass Transfer, 2022, 187, 122532.	4.8	14
28	EXPERIMENTAL ANALYSIS OF HEAT AND MASS TRANSFER IN SMALL DIMENSION, TWO-PHASE LOOP THERMOSYPHONS. Heat Pipe Science and Technology an International Journal, 2010, 1, 163-182.	0.2	12
29	Upward and downward heat and mass transfer with miniature periodically operating loop thermosyphons. Superlattices and Microstructures, 2004, 35, 339-351.	3.1	11
30	THERMAL-HYDRAULIC CHARACTERIZATION OF A FLAT PLATE PULSATING HEAT PIPE FOR AUTOMOTIVE APPLICATIONS. Interfacial Phenomena and Heat Transfer, 2015, 3, 413-425.	0.8	11
31	Pulsating Heat pipe Only for Space (PHOS): results of the REXUS 18 sounding rocket campaign. Journal of Physics: Conference Series, 2015, 655, 012042.	0.4	11
32	Start-Up and Operation of a 3D Hybrid Pulsating Heat Pipe on Board a Sounding Rocket. Microgravity Science and Technology, 2019, 31, 249-259.	1.4	11
33	Heat and mass transfer for a small diameter thermosyphon with low fill ratio. International Journal of Thermofluids, 2020, 1-2, 100010.	7.8	11
34	EXPERIMENTAL ANALYSIS OF THE MELTING PROCESS IN A PCM/ALUMINUM FOAM COMPOSITE MATERIAL IN HYPERGRAVITY CONDITIONS. Interfacial Phenomena and Heat Transfer, 2018, 6, 451-467.	0.8	9
35	A pulsating heat pipe embedded radiator: Thermal-vacuum characterisation in the pre-cryogenic temperature range for space applications. Thermal Science and Engineering Progress, 2020, 19, 100622.	2.7	9
36	Theoretical analysis of screened heat pipes for medium and high temperature solar applications. Journal of Physics: Conference Series, 2014, 547, 012010.	0.4	8

#	Article	IF	Citations
37	Pulsated Two-Phase Thermosyphons for Electronic Equipment Thermal Control. , 0, , .		5
38	LOCAL VOID FRACTION AND FLUID VELOCITY MEASUREMENTS IN A CAPILLARY CHANNEL WITH A SINGLE OPTICAL PROBE. Interfacial Phenomena and Heat Transfer, 2017, 5, 23-42.	0.8	5
39	Vaporization Heat Transfer in a Small Diameter Closed Two-Phase Thermosyphon. Journal of Heat Transfer, 2019, 141, .	2.1	5
40	PULSATING HEAT PIPE IN HYPERGRAVITY CONDITIONS. Heat Pipe Science and Technology an International Journal, 2015, 6, 91-109.	0.2	5
41	Feasibility of periodic thermosyphons for environmentally friendly ground source cooling applications. International Journal of Low-Carbon Technologies, 2013, 8, 117-123.	2.6	4
42	Recognition of wall materials through active thermography coupled with numerical simulations. Applied Optics, 2016, 55, 6821.	2.1	4
43	U-PHOS Project: Development of a Large Diameter Pulsating Heat Pipe Experiment on board REXUS 22. Journal of Physics: Conference Series, 2017, 796, 012044.	0.4	4
44	VISUALISATION OF FLOW PATTERNS IN FLAT PLATE PULSATING HEAT PIPE: INFLUENCE OF HYDRAULIC BEHAVIOUR ON THERMAL PERFORMANCES. Heat Pipe Science and Technology an International Journal, 2014, 5, 377-384.	0.2	4
45	Transient analysis of boiling heat transfer in periodic drying out miniature pools. International Journal of Multiphase Flow, 2008, 34, 1088-1095.	3.4	3
46	The U-PHOS experience within the ESA student REXUS/BEXUS programme: A real space hands-on opportunity. , 2017, , .		3
47	Fluid-flow pressure measurements and thermo-fluid characterization of a single loop two-phase passive heat transfer device. Journal of Physics: Conference Series, 2017, 923, 012022.	0.4	3
48	EFFECT OF CONDENSER TEMPERATURE ON THE START-UP OF A PULSATING HEAT PIPE. Heat Pipe Science and Technology an International Journal, 2017, 8, 13-25.	0.2	3
49	Experimental investigation on influence of porous material properties on drying process by a hot air jet. Journal of Physics: Conference Series, 2012, 395, 012139.	0.4	2
50	THEORETICAL AND EXPERIMENTAL ANALYSES OF THE THERMAL RESISTANCE OF A LOOP THERMOSYPHON FOR PASSIVE SOLAR HEATING OF BUILDINGS. Interfacial Phenomena and Heat Transfer, 2019, 7, 57-68.	0.8	2
51	Design and experimental analysis of a screened heat pipe for solar applications. Journal of Physics: Conference Series, 2015, 655, 012022.	0.4	1
52	Recent Research Progress in Solar Thermal Conversion Theory and Applications. International Journal of Photoenergy, 2015, 2015, 1-2.	2.5	1
53	ACCURACY ANALYSIS OF DIRECT INFRARED TEMPERATURE MEASUREMENTS OF TWO-PHASE CONFINED FLOWS. , 2018, , .		1
54	Experimental Investigation on a Closed Loop Pulsating Heat Pipe in Hyper-Gravity Conditions. , 2014, , .		1

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55	MULTI-PARAMETRIC INVESTIGATION ON THE THERMAL INSTABILITY OF A CLOSED LOOP PULSATING HEAT PIPE. Heat Pipe Science and Technology an International Journal, 2014, 5, 409-416.	0.2	0
56	Low Cost True Monofiber Optical Probe for Local Void Fraction Measurements in Minichannels. Journal of Physics: Conference Series, 2014, 547, 012027.	0.4	0
57	Performances of infrared emitters applied to the porous thin materials drying. Journal of Physics: Conference Series, 2014, 501, 012009.	0.4	0
58	Effect of the application of an electric field on the performance of a two-phase loop device: preliminary results. Journal of Physics: Conference Series, 2015, 655, 012043.	0.4	0
59	ELECTRICAL FORCE EFFECT ON A CAPILLARY LOOP TWO-PHASE THERMOSYPHON. Heat Pipe Science and Technology an International Journal, 2014, 5, 245-252.	0.2	0
60	MELTING FRONT EVOLUTION OF PARAFFIN WAX INSIDE METAL FOAMS AT DIFFERENT ACCELERATION LEVELS. , 2018, , .		0