

Sauro Filippeschi

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Metal foam/PCM melting evolution analysis: Orientation and morphology effects. Applied Thermal Engineering, 2021, 187, 116572.	6.0	103
3	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
4	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
5	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
6	Developing flow pattern maps for accelerated two-phase capillary flows. Experimental Thermal and Fluid Science, 2020, 112, 109981.	2.7	24
7	Heat and mass transfer for a small diameter thermosyphon with low fill ratio. International Journal of Thermofluids, 2020, 1-2, 100010.	7.8	11
8	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
9	Flow characterization of a pulsating heat pipe through the wavelet analysis of pressure signals. Applied Thermal Engineering, 2020, 171, 115128.	6.0	34
10	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
11	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
12	Vaporization Heat Transfer in a Small Diameter Closed Two-Phase Thermosyphon. Journal of Heat Transfer, 2019, 141, .	2.1	5
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	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
15	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
16	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
17	ACCURACY ANALYSIS OF DIRECT INFRARED TEMPERATURE MEASUREMENTS OF TWO-PHASE CONFINED FLOWS. , 2018, , .		1
18	MELTING FRONT EVOLUTION OF PARAFFIN WAX INSIDE METAL FOAMS AT DIFFERENT ACCELERATION LEVELS. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	Numerical Analysis of a Paraffin/Metal Foam Composite for Thermal Storage. Journal of Physics: Conference Series, 2017, 796, 012032.	0.4	16
24	The U-PHOS experience within the ESA student REXUS/BEXUS programme: A real space hands-on opportunity. , 2017, , .		3
25	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
26	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
27	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
28	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
29	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
30	Advanced multi-evaporator loop thermosyphon. Energy, 2016, 112, 562-573.	8.8	28
31	Recognition of wall materials through active thermography coupled with numerical simulations. Applied Optics, 2016, 55, 6821.	2.1	4
32	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
33	Two-phase closed thermosyphons: A review of studies and solar applications. Renewable and Sustainable Energy Reviews, 2016, 53, 575-593.	16.4	221
34	Design and experimental analysis of a screened heat pipe for solar applications. Journal of Physics: Conference Series, 2015, 655, 012022.	0.4	1
35	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
36	Recent Research Progress in Solar Thermal Conversion Theory and Applications. International Journal of Photoenergy, 2015, 2015, 1-2.	2.5	1

#	ARTICLE	IF	CITATIONS
37	THERMAL-HYDRAULIC CHARACTERIZATION OF A FLAT PLATE PULSATING HEAT PIPE FOR AUTOMOTIVE APPLICATIONS. <i>Interfacial Phenomena and Heat Transfer</i> , 2015, 3, 413-425.	0.8	11
38	Pulsating Heat pipe Only for Space (PHOS): results of the REXUS 18 sounding rocket campaign. <i>Journal of Physics: Conference Series</i> , 2015, 655, 012042.	0.4	11
39	Experimental study of a closed loop flat plate pulsating heat pipe under a varying gravity force. <i>International Journal of Thermal Sciences</i> , 2015, 96, 23-34.	4.9	65
40	A pulsating heat pipe for space applications: Ground and microgravity experiments. <i>International Journal of Thermal Sciences</i> , 2015, 95, 53-63.	4.9	82
41	PULSATING HEAT PIPE IN HYPERGRAVITY CONDITIONS. <i>Heat Pipe Science and Technology an International Journal</i> , 2015, 6, 91-109.	0.2	5
42	MULTI-PARAMETRIC INVESTIGATION ON THE THERMAL INSTABILITY OF A CLOSED LOOP PULSATING HEAT PIPE. <i>Heat Pipe Science and Technology an International Journal</i> , 2014, 5, 409-416.	0.2	0
43	Theoretical analysis of screened heat pipes for medium and high temperature solar applications. <i>Journal of Physics: Conference Series</i> , 2014, 547, 012010.	0.4	8
44	Thermal response of a closed loop pulsating heat pipe under a varying gravity force. <i>International Journal of Thermal Sciences</i> , 2014, 80, 11-22.	4.9	63
45	Thermal instability of a Closed Loop Pulsating Heat Pipe: Combined effect of orientation and filling ratio. <i>Experimental Thermal and Fluid Science</i> , 2014, 59, 222-229.	2.7	101
46	Low Cost True Monofiber Optical Probe for Local Void Fraction Measurements in Minichannels. <i>Journal of Physics: Conference Series</i> , 2014, 547, 012027.	0.4	0
47	Performances of infrared emitters applied to the porous thin materials drying. <i>Journal of Physics: Conference Series</i> , 2014, 501, 012009.	0.4	0
48	VISUALISATION OF FLOW PATTERNS IN FLAT PLATE PULSATING HEAT PIPE: INFLUENCE OF HYDRAULIC BEHAVIOUR ON THERMAL PERFORMANCES. <i>Heat Pipe Science and Technology an International Journal</i> , 2014, 5, 377-384.	0.2	4
49	Experimental Investigation on a Closed Loop Pulsating Heat Pipe in Hyper-Gravity Conditions. , 2014, , .		1
50	ELECTRICAL FORCE EFFECT ON A CAPILLARY LOOP TWO-PHASE THERMOSYPHON. <i>Heat Pipe Science and Technology an International Journal</i> , 2014, 5, 245-252.	0.2	0
51	Experimental analysis of Closed Loop Two Phase Thermosyphon (CLTPT) for energy systems. <i>Experimental Thermal and Fluid Science</i> , 2013, 51, 302-311.	2.7	65
52	Feasibility of periodic thermosyphons for environmentally friendly ground source cooling applications. <i>International Journal of Low-Carbon Technologies</i> , 2013, 8, 117-123.	2.6	4
53	Experimental investigation on influence of porous material properties on drying process by a hot air jet. <i>Journal of Physics: Conference Series</i> , 2012, 395, 012139.	0.4	2
54	Closed Loop Two-Phase Thermosyphon of Small Dimensions: a Review of the Experimental Results. <i>Microgravity Science and Technology</i> , 2012, 24, 165-179.	1.4	95

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55	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
56	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
57	Transient analysis of boiling heat transfer in periodic drying out miniature pools. International Journal of Multiphase Flow, 2008, 34, 1088-1095.	3.4	3
58	On periodic two-phase thermosyphons operating against gravity. International Journal of Thermal Sciences, 2006, 45, 124-137.	4.9	15
59	Upward and downward heat and mass transfer with miniature periodically operating loop thermosyphons. Superlattices and Microstructures, 2004, 35, 339-351.	3.1	11
60	Pulsated Two-Phase Thermosyphons for Electronic Equipment Thermal Control. , 0, , .		5