

Massimo Corcione

List of Publications by Year in Descending Order

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Version: 2024-04-18

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

2,116
citations

20
h-index

45
g-index

77
ext. papers

2,369
ext. citations

3.4
avg, IF

5.89
L-index

#	Paper	IF	Citations
72	Effective exploitation of a geyser bubble-chamber equipment as a background-free fast neutron detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	
71	New Dimensionless Correlations for the Evaluation of the Thermal Resistances of a District Heating Twin Pipe System. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9685	2.6	
70	Dimensionless Correlations for Natural Convection Heat Transfer from a Pair of Vertical Staggered Plates Suspended in Free Air. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6511	2.6	1
69	Buoyancy-Induced Convection in Water From a Pair of Horizontal Heated Cylinders Enclosed in a Square Cooled Cavity. <i>Heat Transfer Engineering</i> , 2021 , 42, 205-214	1.7	
68	A 0.3nV/Hz input-referred-noise analog front-end for radiation-induced thermo-acoustic pulses. <i>The Integration VLSI Journal</i> , 2020 , 74, 11-18	1.4	2
67	On the Optimal Indoor Air Conditions for SARS-CoV-2 Inactivation. An Enthalpy-Based Approach. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	20
66	Predicting SARS-CoV-2 Weather-Induced Seasonal Virulence from Atmospheric Air Enthalpy. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	4
65	Buoyancy-induced convection from a pair of heated and cooled horizontal circular cylinders inside an adiabatic tilted cavity filled with alumina/water nanofluids. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 3163-3181	4.5	0
64	On the critical energy required for homogeneous nucleation in bubble chambers employed in dark matter searches. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	2
63	Numerical determination of temperature distribution in heating network. <i>Energy</i> , 2019 , 183, 880-891	7.9	5
62	Laminar natural convection from a vertical array of horizontal heated cylinders inside a water-filled rectangular enclosure cooled at sides. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 2607-2623	4.5	3
61	Effects of the thermodynamic conditions on the acoustic signature of bubble nucleation in superheated liquids used in dark matter search experiments. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	5
60	A Demonstrative Study on the Two-phase vs. Single-phase Modeling of Buoyancy-driven Flows of Enclosed Nanofluids. <i>Heat Transfer Engineering</i> , 2019 , 40, 1-15	1.7	5
59	Optimal Inclination for Maximum Convection Heat Transfer in Differentially-Heated Enclosures Filled with Water Near 4°C. <i>Heat Transfer Engineering</i> , 2018 , 39, 499-510	1.7	0
58	Buoyancy-Induced Convection of Alumina-Water Nanofluids in Laterally Heated Vertical Slender Cavities. <i>Heat Transfer Engineering</i> , 2018 , 39, 1103-1116	1.7	1
57	Buoyancy-induced convection of water-based nanofluids from an enclosed heated cylinder. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 2734-2755	4.5	1
56	Thermophoresis-induced oscillatory natural convection flows of water-based nanofluids in tilted cavities. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 71, 270-289	2.3	5

55	Buoyancy-driven convection of nanofluids in inclined enclosures. <i>Chemical Engineering Research and Design</i> , 2017 , 122, 63-76	5.5	6
54	Effects of the aspect ratio on the optimal tilting angle for maximum convection heat transfer across air-filled rectangular enclosures differentially heated at sides. <i>Journal of Thermal Science</i> , 2017 , 26, 245-254	1.9	3
53	Natural convection from a pair of differentially-heated horizontal cylinders aligned side by side in a nanofluid-filled square enclosure. <i>Energy Procedia</i> , 2017 , 126, 26-33	2.3	4
52	MOSCAB: a geyser-concept bubble chamber to be used in a dark matter search. <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	4
51	Combined Effects of Slip Motion and Boundary Conditions on Enhanced Heat Transfer in Natural Convection Flows of Enclosed Nanofluids. <i>Heat Transfer Engineering</i> , 2016 , 37, 1062-1074	1.7	2
50	Temperature effects on the enhanced or deteriorated buoyancy-driven heat transfer in differentially heated enclosures filled with nanofluids. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016 , 70, 223-241	2.3	4
49	Natural Convection of Nanofluids in Enclosures Heated Laterally and Underneath. <i>Applied Mechanics and Materials</i> , 2015 , 737, 301-312	0.3	
48	Correlations for the double-diffusive natural convection in square enclosures induced by opposite temperature and concentration gradients. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 811-819	4.9	22
47	Enhanced natural convection heat transfer of nanofluids in enclosures with two adjacent walls heated and the two opposite walls cooled. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 88, 902-913	4.9	47
46	Natural Convection of Water Near 4°C in a Bottom-cooled Enclosure. <i>Energy Procedia</i> , 2015 , 82, 322-327	2.3	3
45	Natural convection in square enclosures differentially heated at sides using alumina-water nanofluids with temperature-dependent physical properties. <i>Thermal Science</i> , 2015 , 19, 591-608	1.2	13
44	Energy performance of air-conditioning systems using an indirect evaporative cooling combined with a cooling/reheating treatment. <i>Energy and Buildings</i> , 2014 , 69, 490-497	7	24
43	Experimental Validation of an Active Thermal Landmine Detection Technique. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 2040-2047	8.1	2
42	Buoyancy-induced convection in . <i>European Journal of Mechanics, B/Fluids</i> , 2014 , 48, 123-134	2.4	15
41	Experimental study of diffusion coefficients of water through the collagen: apatite porosity in human trabecular bone tissue. <i>BioMed Research International</i> , 2014 , 2014, 796519	3	10
40	Convective transport in rectangular cavities partially heated at the bottom and cooled at one side. <i>Journal of Thermal Science</i> , 2013 , 22, 55-63	1.9	14
39	A two-phase numerical study of buoyancy-driven convection of alumina-water nanofluids in differentially-heated horizontal annuli. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 327-338	4.9	30
38	Two-phase mixture modeling of natural convection of nanofluids with temperature-dependent properties. <i>International Journal of Thermal Sciences</i> , 2013 , 71, 182-195	4.1	91

37	Optimization of laminar pipe flow using nanoparticle liquid suspensions for cooling applications. <i>Applied Thermal Engineering</i> , 2013 , 50, 857-867	5.8	12
36	Buoyancy-Induced Convection in a Square Enclosure Discretely Heated at One Side and Cooled either at the Top or at the Bottom Using both Gases and Liquids as Working Fluids. <i>Applied Mechanics and Materials</i> , 2013 , 423-426, 1741-1750	0.3	
35	Dimensionless Correlating-Equations for Predicting the Optimal Tilting Angle of Water-Filled Square and Shallow Enclosures Differentially Heated at Sides. <i>Applied Mechanics and Materials</i> , 2013 , 394, 163-172	0.3	
34	Heat transfer of nanofluids in turbulent pipe flow. <i>International Journal of Thermal Sciences</i> , 2012 , 56, 58-69	4.1	35
33	Energy performance of a lightweight opaque ventilated façade integrated with the HVAC system using saturated exhaust indoor air. <i>Energy and Buildings</i> , 2012 , 50, 26-34	7	14
32	A Semi-Empirical Model for Predicting the Effective Dynamic Viscosity of Nanoparticle Suspensions. <i>Heat Transfer Engineering</i> , 2012 , 33, 575-583	1.7	24
31	Free Convection Heat Transfer from a Row of Horizontal Cylinders. <i>Advanced Materials Research</i> , 2012 , 452-453, 1246-1251	0.5	1
30	Optimization of Free Convection Heat Transfer From Vertical Plates Using Nanofluids. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	9
29	Pumping Energy Saving Using Nanoparticle Suspensions as Heat Transfer Fluids. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	8
28	Natural Convection in Nanofluids. <i>Computational and Physical Processes in Mechanics and Thermal Science</i> , 2012 , 277-318		
27	Natural convection heat transfer of nanofluids in annular spaces between horizontal concentric cylinders. <i>Applied Thermal Engineering</i> , 2011 , 31, 4055-4063	5.8	42
26	Natural convection from inclined plates to gases and liquids when both sides are uniformly heated at the same temperature. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 1405-1416	4.1	8
25	Empirical correlating equations for predicting the effective thermal conductivity and dynamic viscosity of nanofluids. <i>Energy Conversion and Management</i> , 2011 , 52, 789-793	10.6	741
24	Rayleigh-Bénard convection heat transfer in nanoparticle suspensions. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 65-77	2.4	104
23	Buoyant heat transport in fluids across tilted square cavities discretely heated at one side. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 797-808	4.1	23
22	Heat transfer features of buoyancy-driven nanofluids inside rectangular enclosures differentially heated at the sidewalls. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 1536-1546	4.1	180
21	Natural Convection Heat and Momentum Transfer in Rectangular Enclosures Heated at the Lower Portion of the Sidewalls and the Bottom Wall and Cooled at the Remaining Upper Portion of the Sidewalls and the Top Wall. <i>Heat Transfer Engineering</i> , 2009 , 30, 1166-1176	1.7	12
20	Multi-Prandtl correlating equations for free convection heat transfer from a horizontal tube of elliptic cross-section. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 1353-1364	4.9	11

19	Correlating Equations for Laminar Free Convection From Misaligned Horizontal Cylinders in Interacting Flow Fields. <i>Journal of Heat Transfer</i> , 2008 , 130,	1.8	7
18	Preliminary experimental validation of a landmine detection system based on localized heating and sensing 2008 ,		2
17	Screening Performance of Pairs of Diffusively Reflecting Traffic Noise Barriers: Theory and Experiments. <i>Noise and Vibration Worldwide</i> , 2008 , 39, 11-20	0.8	
16	Experimental verification of the acoustic performance of diffusive roadside noise barriers. <i>Applied Acoustics</i> , 2007 , 68, 1357-1372	3.1	21
15	Interactive free convection from a pair of vertical tube-arrays at moderate Rayleigh numbers. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 1061-1074	4.9	34
14	Free convection heat transfer from a horizontal cylinder affected by a downstream parallel cylinder of different diameter. <i>International Journal of Thermal Sciences</i> , 2006 , 45, 923-931	4.1	16
13	Thermal detection of buried landmines by local heating. <i>International Journal of Systems Science</i> , 2005 , 36, 589-604	2.3	1
12	Correlating equations for free convection heat transfer from horizontal isothermal cylinders set in a vertical array. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 3660-3673	4.9	90
11	Natural convection in tilted square cavities with differentially heated opposite walls. <i>International Journal of Thermal Sciences</i> , 2005 , 44, 441-451	4.1	44
10	New dimensionless correlation-equations for laminar free convection heat transfer in real gases with high wall-fluid temperature differences. <i>International Journal of Thermal Sciences</i> , 2004 , 43, 87-94	4.1	2
9	Rayleigh-Bard convection in tall rectangular enclosures. <i>International Journal of Thermal Sciences</i> , 2004 , 43, 135-144	4.1	37
8	Application to natural convection enclosed flows of a lattice Boltzmann BGK model coupled with a general purpose thermal boundary condition. <i>International Journal of Thermal Sciences</i> , 2004 , 43, 575-586	4.1	122
7	Effects of the thermal boundary conditions at the sidewalls upon natural convection in rectangular enclosures heated from below and cooled from above. <i>International Journal of Thermal Sciences</i> , 2003 , 42, 199-208	4.1	133
6	Optimal design of outdoor lighting systems by genetic algorithms. <i>Lighting Research and Technology</i> , 2003 , 35, 261-277	2	16
5	Laminar free convection from a vertical plate with uniform surface heat flux in chemically reacting systems. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 319-329	4.9	7
4	Laminar free convection from a vertical plate in partly dissociated gases. <i>International Journal of Heat and Mass Transfer</i> , 2000 , 43, 1113-1120	4.9	5
3	A method for predicting non-uniform steady sound fields within spaces bounded by diffusive surfaces. <i>Applied Acoustics</i> , 1998 , 54, 305-321	3.1	6
2	Dimensionless Correlations for Natural Convection Heat Transfer from an Enclosed Horizontal Heated Plate. <i>Heat Transfer Engineering</i> , 1-14	1.7	1

- 1 Modelling the interaction of the Astro Bio Cube Sat with the Van Allen Belt radiative field using Monte Carlo transport codes. *Radiation Detection Technology and Methods*,1

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