

# Alessandro Quintino

## List of Publications by Year in descending order

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47  
papers

621  
citations

623188

14  
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610482

24  
g-index

47  
all docs

47  
docs citations

47  
times ranked

615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-phase mixture modeling of natural convection of nanofluids with temperature-dependent properties. International Journal of Thermal Sciences, 2013, 71, 182-195.	2.6	111
2	Enhanced natural convection heat transfer of nanofluids in enclosures with two adjacent walls heated and the two opposite walls cooled. International Journal of Heat and Mass Transfer, 2015, 88, 902-913.	2.5	53
3	Natural convection heat transfer of nanofluids in annular spaces between horizontal concentric cylinders. Applied Thermal Engineering, 2011, 31, 4055-4063.	3.0	49
4	Heat transfer of nanofluids in turbulent pipe flow. International Journal of Thermal Sciences, 2012, 56, 58-69.	2.6	40
5	A two-phase numerical study of buoyancy-driven convection of alumina-water nanofluids in differentially-heated horizontal annuli. International Journal of Heat and Mass Transfer, 2013, 65, 327-338.	2.5	36
6	Correlations for the double-diffusive natural convection in square enclosures induced by opposite temperature and concentration gradients. International Journal of Heat and Mass Transfer, 2015, 81, 811-819.	2.5	35
7	Energy performance of air-conditioning systems using an indirect evaporative cooling combined with a cooling/reheating treatment. Energy and Buildings, 2014, 69, 490-497.	3.1	26
8	Improving evaluation of the heat losses from arrays of pipes or electric cables buried in homogeneous soil. Applied Thermal Engineering, 2011, 31, 3768-3773.	3.0	24
9	Natural convection in square enclosures differentially heated at sides using alumina-water nanofluids with temperature-dependent physical properties. Thermal Science, 2015, 19, 591-608.	0.5	23
10	Convective transport in rectangular cavities partially heated at the bottom and cooled at one side. Journal of Thermal Science, 2013, 22, 55-63.	0.9	18
11	Optimization of laminar pipe flow using nanoparticle liquid suspensions for cooling applications. Applied Thermal Engineering, 2013, 50, 857-867.	3.0	18
12	Buoyancy-induced convection in $Al_2O_3$ -water nanofluids from an enclosed heater. European Journal of Mechanics, B/Fluids, 2014, 48, 123-134.	1.8	18
13	Experimental analysis of the transport of airborne contaminants between adjacent rooms at different pressure due to the door opening. Building and Environment, 2014, 81, 81-91.	3.0	16
14	Energy performance of a lightweight opaque ventilated facade integrated with the HVAC system using saturated exhaust indoor air. Energy and Buildings, 2012, 50, 26-34.	3.1	15
15	Experimental Study of Diffusion Coefficients of Water through the Collagen: Apatite Porosity in Human Trabecular Bone Tissue. BioMed Research International, 2014, 2014, 1-8.	0.9	14
16	Experimental analysis of the heat transfer coefficient enhancement for a heated cylinder in cross-flow downstream of a grid flow perturbation. Applied Thermal Engineering, 2012, 35, 55-59.	3.0	12
17	Optimization of Free Convection Heat Transfer From Vertical Plates Using Nanofluids. Journal of Heat Transfer, 2012, 134, .	1.2	10
18	Buoyancy-driven convection of nanofluids in inclined enclosures. Chemical Engineering Research and Design, 2017, 122, 63-76.	2.7	9

#	ARTICLE	IF	CITATIONS
19	Pumping Energy Saving Using Nanoparticle Suspensions as Heat Transfer Fluids. Journal of Heat Transfer, 2012, 134, .	1.2	8
20	Thermophoresis-induced oscillatory natural convection flows of water-based nanofluids in tilted cavities. Numerical Heat Transfer; Part A: Applications, 2017, 71, 270-289.	1.2	7
21	Numerical determination of temperature distribution in heating network. Energy, 2019, 183, 880-891.	4.5	7
22	MOSCAB: a geyser-concept bubble chamber to be used in a dark matter search. European Physical Journal C, 2017, 77, 1.	1.4	6
23	A Demonstrative Study on the Two-phase vs. Single-phase Modeling of Buoyancy-driven Flows of Enclosed Nanofluids. Heat Transfer Engineering, 2019, 40, 1-15.	1.2	6
24	Predicting SARS-CoV-2 Weather-Induced Seasonal Virulence from Atmospheric Air Enthalpy. International Journal of Environmental Research and Public Health, 2020, 17, 9059.	1.2	6
25	A 0.3nV/√Hz input-referred-noise analog front-end for radiation-induced thermo-acoustic pulses. The Integration VLSI Journal, 2020, 74, 11-18.	1.3	6
26	Temperature effects on the enhanced or deteriorated buoyancy-driven heat transfer in differentially heated enclosures filled with nanofluids. Numerical Heat Transfer; Part A: Applications, 2016, 70, 223-241.	1.2	5
27	Heat transfer correlations for natural convection in inclined enclosures filled with water around its density-inversion point. International Journal of Thermal Sciences, 2017, 116, 310-319.	2.6	5
28	Natural convection from a pair of differentially-heated horizontal cylinders aligned side by side in a nanofluid-filled square enclosure. Energy Procedia, 2017, 126, 26-33.	1.8	5
29	Heat transfer enhancement in Rayleigh-Bénard convection of liquids using suspended adiabatic honeycombs. International Journal of Thermal Sciences, 2018, 127, 351-359.	2.6	5
30	Effects of the thermodynamic conditions on the acoustic signature of bubble nucleation in superheated liquids used in dark matter search experiments. European Physical Journal C, 2019, 79, 1.	1.4	5
31	Natural Convection of Water Near 4°C in a Bottom-cooled Enclosure. Energy Procedia, 2015, 82, 322-327.	1.8	3
32	Buoyancy-Induced Convection of Alumina-Water Nanofluids in Laterally Heated Vertical Slender Cavities. Heat Transfer Engineering, 2018, 39, 1103-1116.	1.2	3
33	On the critical energy required for homogeneous nucleation in bubble chambers employed in dark matter searches. European Physical Journal C, 2019, 79, 1.	1.4	3
34	Combined Effects of Slip Motion and Boundary Conditions on Enhanced Heat Transfer in Natural Convection Flows of Enclosed Nanofluids. Heat Transfer Engineering, 2016, 37, 1062-1074.	1.2	2
35	Dimensionless Correlations for Natural Convection Heat Transfer from a Pair of Vertical Staggered Plates Suspended in Free Air. Applied Sciences (Switzerland), 2021, 11, 6511.	1.3	2
36	CORRELATIONS FOR TRANSIENT THERMAL CONVECTION OF WATER NEAR ITS DENSITY-INVERSION POINT IN A SQUARE ENCLOSURE HEATED FROM BELOW. JP Journal of Heat and Mass Transfer, 2015, 12, 65-88.	0.1	2

#	ARTICLE	IF	CITATIONS
37	Modelling the interaction of the Astro Bio Cube Sat with the Van Allen's Belt radiative field using Monte Carlo transport codes. Radiation Detection Technology and Methods, 0, , 1.	0.4	2
38	Fenestration peak solar heat gain: A review of the cloudless day condition as conservative hypothesis. Thermal Science, 2011, 15, 223-234.	0.5	1
39	Buoyancy-induced convection of water-based nanofluids from an enclosed heated cylinder. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2734-2755.	1.6	1
40	Buoyancy-induced convection from a pair of heated and cooled horizontal circular cylinders inside an adiabatic tilted cavity filled with alumina/water nanofluids. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 3163-3181.	1.6	1
41	Dimensionless Correlations for Natural Convection Heat Transfer from an Enclosed Horizontal Heated Plate. Heat Transfer Engineering, 2022, 43, 270-282.	1.2	1
42	New Dimensionless Correlations for the Evaluation of the Thermal Resistances of a District Heating Twin Pipe System. Applied Sciences (Switzerland), 2021, 11, 9685.	1.3	1
43	Effective exploitation of a geyser bubble-chamber equipment as a background-free fast neutron detector. European Physical Journal C, 2021, 81, 1.	1.4	1
44	Heat loss from buried vertical plate with assigned temperature distribution. Journal of Thermal Science, 2009, 18, 253-255.	0.9	0
45	Experimental and Theoretical Analysis of Water Uptake and Swelling Kinetics of Trabecular Tissue from Human Femur Head: Some Preliminary Results. , 2013, , .		0
46	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. Applied Mechanics and Materials, 2013, 423-426, 1741-1750.	0.2	0
47	Dimensionless Correlating-Equations for Predicting the Optimal Tilting Angle of Water-Filled Square and Shallow Enclosures Differentially Heated at Sides. Applied Mechanics and Materials, 2013, 394, 163-172.	0.2	0