

# Gianpiero Colangelo

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

2,292  
citations

331538

21  
h-index

302012

39  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1988  
citing authors

#	ARTICLE	IF	CITATIONS
1	CFD simulations of horizontal ground heat exchangers: A comparison among different configurations. <i>Applied Thermal Engineering</i> , 2012, 33-34, 24-32.	3.0	235
2	Review of heat transfer in nanofluids: Conductive, convective and radiative experimental results. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 1182-1198.	8.2	205
3	A new solution for reduced sedimentation flat panel solar thermal collector using nanofluids. <i>Applied Energy</i> , 2013, 111, 80-93.	5.1	181
4	Thermal conductivity, viscosity and stability of Al <sub>2</sub> O <sub>3</sub> -diathermic oil nanofluids for solar energy systems. <i>Energy</i> , 2016, 95, 124-136.	4.5	166
5	Cooling of electronic devices: Nanofluids contribution. <i>Applied Thermal Engineering</i> , 2017, 127, 421-435.	3.0	165
6	Innovation in flat solar thermal collectors: A review of the last ten years experimental results. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 1141-1159.	8.2	149
7	Results of experimental investigations on the heat conductivity of nanofluids based on diathermic oil for high temperature applications. <i>Applied Energy</i> , 2012, 97, 828-833.	5.1	143
8	An investigation of layering phenomenon at the liquid-solids interface in Cu and CuO based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2016, 103, 564-571.	2.5	103
9	Experimental test of an innovative high concentration nanofluid solar collector. <i>Applied Energy</i> , 2015, 154, 874-881.	5.1	101
10	An explanation of the Al <sub>2</sub> O <sub>3</sub> nanofluid thermal conductivity based on the phonon theory of liquid. <i>Energy</i> , 2016, 116, 786-794.	4.5	101
11	Experimental investigation of transparent parabolic trough collector based on gas-phase nanofluid. <i>Applied Energy</i> , 2017, 203, 560-570.	5.1	95
12	Optical absorption measurements of oxide nanoparticles for application as nanofluid in direct absorption solar power systems – Part I: Water-based nanofluids behavior. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 315-320.	3.0	90
13	Evaluation of emissions of CO <sub>2</sub> and air pollutants from electric vehicles in Italian cities. <i>Applied Energy</i> , 2015, 157, 675-687.	5.1	78
14	Optical absorption measurements of oxide nanoparticles for application as nanofluid in direct absorption solar power systems – Part II: ZnO, CeO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> nanoparticles behavior. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 321-326.	3.0	75
15	Numerical simulation of thermal efficiency of an innovative Al <sub>2</sub> O <sub>3</sub> nanofluid solar thermal collector: Influence of nanoparticles concentration. <i>Thermal Science</i> , 2017, 21, 2769-2779.	0.5	49
16	High efficiency nanofluid cooling system for wind turbines. <i>Thermal Science</i> , 2014, 18, 543-554.	0.5	48
17	Heating requirements in greenhouse farming in southern Italy: evaluation of ground-source heat pump utilization compared to traditional heating systems. <i>Energy Efficiency</i> , 2016, 9, 1065-1085.	1.3	34
18	Experimental study of a burner with high temperature heat recovery system for TPV applications. <i>Energy Conversion and Management</i> , 2006, 47, 1192-1206.	4.4	33

#	ARTICLE	IF	CITATIONS
19	A critical analysis of clustering phenomenon in Al <sub>2</sub> O <sub>3</sub> nanofluids. Journal of Thermal Analysis and Calorimetry, 2019, 135, 371-377.	2.0	31
20	Performance Evaluation of a New Type of Combined Photovoltaic-Thermal Solar Collector. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.1	25
21	New approaches to the design of the combustion system for thermophotovoltaic applications. Semiconductor Science and Technology, 2003, 18, S262-S269.	1.0	24
22	Experimental Measurements of Al <sub>2</sub> O <sub>3</sub> and CuO Nanofluids Interaction with Microwaves. Journal of Energy Engineering - ASCE, 2017, 143, 04016045.	1.0	20
23	Improvements in Dual-Fuel Biodiesel-Producer Gas Combustion at Low Loads through Pilot Injection Splitting. Journal of Energy Engineering - ASCE, 2015, 141, .	1.0	19
24	Experimental investigation on 4-strokes biodiesel engine cooling system based on nanofluid. Renewable Energy, 2018, 125, 319-326.	4.3	18
25	Modeling of double-loop fluidized bed solar reactor for efficient thermochemical fuel production. Solar Energy Materials and Solar Cells, 2017, 160, 174-181.	3.0	14
26	Numerical method for wind energy analysis applied to Apulia Region, Italy. Energy, 2017, 128, 1-10.	4.5	13
27	A Critical Review of Experimental Investigations about Convective Heat Transfer Characteristics of Nanofluids under Turbulent and Laminar Regimes with a Focus on the Experimental Setup. Energies, 2021, 14, 6004.	1.6	12
28	Numerical Evaluation of a HVAC System Based on a High-Performance Heat Transfer Fluid. Energies, 2021, 14, 3298.	1.6	10
29	Numerical Analysis of a Solar Air Preheating Coal Combustion System for Power Generation. Journal of Energy Engineering - ASCE, 2018, 144, .	1.0	7
30	Development of a High-Flux Solar Simulator for Experimental Testing of High-Temperature Applications. Energies, 2021, 14, 3124.	1.6	7
31	Numerical method for wind energy analysis in WTC siting. Renewable Energy, 2019, 136, 202-210.	4.3	6
32	An Experimental Study of High Pressure Nozzles in Consideration of Hole-to-Hole Spray Abnormalities. , 2000, , .		5
33	Multi-parameter optimization of double-loop fluidized bed solar reactor for thermochemical fuel production. Energy, 2017, 134, 919-932.	4.5	5
34	Experimental Evaluation of a Full-Scale HVAC System Working with Nanofluid. Energies, 2022, 15, 2902.	1.6	5
35	Numerical Optimization of SPR Sensors for Lube Oil Real-Time Optical Characterization in Large 2-Stroke Marine Diesel Engines. Energy Procedia, 2017, 126, 1075-1082.	1.8	4
36	Energy simulation of a nanofluid solar cooling system in Italy. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2019, 172, 32-39.	0.4	4

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37	Progresses in Analytical Design of Distribution Grids and Energy Storage. <i>Energies</i> , 2021, 14, 4270.	1.6	3
38	Performance analysis of two industrial dryers (cross flow and rotary) for ligno-cellulosic biomass desiccation. <i>Renewable Energy and Power Quality Journal</i> , 0, , 274-280.	0.2	3
39	Experimental performance comparison between circular and elliptical tubes in evaporative condensers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 6363-6373.	2.0	2
40	Semi-Analytical Model for Heat and Mass Transfer Evaluation of Vapor Bubbling. <i>Energies</i> , 2020, 13, 1104.	1.6	1
41	Thermal conductivity difference between nanofluids and micro-fluids: Experimental data and theoretical analysis using mass difference scattering. <i>Thermal Science</i> , 2019, 23, 3797-3807.	0.5	1
42	Experimental Setup for Investigation on Microwaves Interaction with Nanofluids. , 2015, , .		0