

# Gianpiero Colangelo

## List of Publications by Citations

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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.

41  
papers

1,830  
citations

20  
h-index

42  
g-index

43  
ext. papers

2,087  
ext. citations

5.7  
avg, IF

5.16  
L-index

#	Paper	IF	Citations
41	CFD simulations of horizontal ground heat exchangers: A comparison among different configurations. <i>Applied Thermal Engineering</i> , <b>2012</b> , 33-34, 24-32	5.8	201
40	Review of heat transfer in nanofluids: Conductive, convective and radiative experimental results. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1182-1198	16.2	183
39	A new solution for reduced sedimentation flat panel solar thermal collector using nanofluids. <i>Applied Energy</i> , <b>2013</b> , 111, 80-93	10.7	153
38	Thermal conductivity, viscosity and stability of Al <sub>2</sub> O <sub>3</sub> -diathermic oil nanofluids for solar energy systems. <i>Energy</i> , <b>2016</b> , 95, 124-136	7.9	132
37	Results of experimental investigations on the heat conductivity of nanofluids based on diathermic oil for high temperature applications. <i>Applied Energy</i> , <b>2012</b> , 97, 828-833	10.7	131
36	Innovation in flat solar thermal collectors: A review of the last ten years experimental results. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 57, 1141-1159	16.2	111
35	Cooling of electronic devices: Nanofluids contribution. <i>Applied Thermal Engineering</i> , <b>2017</b> , 127, 421-435	5.8	107
34	Experimental test of an innovative high concentration nanofluid solar collector. <i>Applied Energy</i> , <b>2015</b> , 154, 874-881	10.7	86
33	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> , <b>2016</b> , 147, 315-320	6.4	80
32	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> , <b>2016</b> , 116, 786-794	7.9	80
31	Experimental investigation of transparent parabolic trough collector based on gas-phase nanofluid. <i>Applied Energy</i> , <b>2017</b> , 203, 560-570	10.7	78
30	An investigation of layering phenomenon at the liquid-solid interface in Cu and CuO based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 103, 564-571	4.9	78
29	Evaluation of emissions of CO <sub>2</sub> and air pollutants from electric vehicles in Italian cities. <i>Applied Energy</i> , <b>2015</b> , 157, 675-687	10.7	64
28	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> , <b>2016</b> , 147, 321-326	6.4	59
27	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> , <b>2017</b> , 21, 2769-2779	1.2	36
26	High efficiency nanofluid cooling system for wind turbines. <i>Thermal Science</i> , <b>2014</b> , 18, 543-554	1.2	33
25	Experimental study of a burner with high temperature heat recovery system for TPV applications. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 1192-1206	10.6	29

24	Heating requirements in greenhouse farming in southern Italy: evaluation of ground-source heat pump utilization compared to traditional heating systems. <i>Energy Efficiency</i> , <b>2016</b> , 9, 1065-1085	3	25
23	Performance Evaluation of a New Type of Combined Photovoltaic-Thermal Solar Collector. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2015</b> , 137,	2.3	22
22	New approaches to the design of the combustion system for thermophotovoltaic applications. <i>Semiconductor Science and Technology</i> , <b>2003</b> , 18, S262-S269	1.8	21
21	A critical analysis of clustering phenomenon in Al <sub>2</sub> O <sub>3</sub> nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 371-377	4.1	19
20	Improvements in Dual-Fuel Biodiesel-Producer Gas Combustion at Low Loads through Pilot Injection Splitting. <i>Journal of Energy Engineering - ASCE</i> , <b>2015</b> , 141,	1.7	15
19	Experimental Measurements of Al <sub>2</sub> O <sub>3</sub> and CuO Nanofluids Interaction with Microwaves. <i>Journal of Energy Engineering - ASCE</i> , <b>2017</b> , 143, 04016045	1.7	15
18	Experimental investigation on 4-strokes biodiesel engine cooling system based on nanofluid. <i>Renewable Energy</i> , <b>2018</b> , 125, 319-326	8.1	14
17	Modeling of double-loop fluidized bed solar reactor for efficient thermochemical fuel production. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 160, 174-181	6.4	13
16	Numerical method for wind energy analysis applied to Apulia Region, Italy. <i>Energy</i> , <b>2017</b> , 128, 1-10	7.9	11
15	Numerical Evaluation of a HVAC System Based on a High-Performance Heat Transfer Fluid. <i>Energies</i> , <b>2021</b> , 14, 3298	3.1	6
14	Multi-parameter optimization of double-loop fluidized bed solar reactor for thermochemical fuel production. <i>Energy</i> , <b>2017</b> , 134, 919-932	7.9	4
13	Numerical Analysis of a Solar Air Preheating Coal Combustion System for Power Generation. <i>Journal of Energy Engineering - ASCE</i> , <b>2018</b> , 144, 04018038	1.7	4
12	An Experimental Study of High Pressure Nozzles in Consideration of Hole-to-Hole Spray Abnormalities <b>2000</b> ,		4
11	Numerical Optimization of SPR Sensors for Lube Oil Real-Time Optical Characterization in Large 2-Stroke Marine Diesel Engines. <i>Energy Procedia</i> , <b>2017</b> , 126, 1075-1082	2.3	3
10	Numerical method for wind energy analysis in WTG siting. <i>Renewable Energy</i> , <b>2019</b> , 136, 202-210	8.1	3
9	Performance analysis of two industrial dryers (cross flow and rotary) for ligno-cellulosic biomass desiccation. <i>Renewable Energy and Power Quality Journal</i> , 274-280		2
8	Development of a High-Flux Solar Simulator for Experimental Testing of High-Temperature Applications. <i>Energies</i> , <b>2021</b> , 14, 3124	3.1	2
7	Energy simulation of a nanofluid solar cooling system in Italy. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , <b>2019</b> , 172, 32-39	0.9	2

6	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. <i>Energies</i> , <b>2021</b> , 14, 6004	3.1	2
5	Thermal conductivity difference between nanofluids and micro-fluids: Experimental data and theoretical analysis using mass difference scattering. <i>Thermal Science</i> , <b>2019</b> , 23, 3797-3807	1.2	1
4	Semi-Analytical Model for Heat and Mass Transfer Evaluation of Vapor Bubbling. <i>Energies</i> , <b>2020</b> , 13, 1104	3.1	0
3	Progresses in Analytical Design of Distribution Grids and Energy Storage. <i>Energies</i> , <b>2021</b> , 14, 4270	3.1	0
2	Experimental performance comparison between circular and elliptical tubes in evaporative condensers. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0
1	Experimental Evaluation of a Full-Scale HVAC System Working with Nanofluid. <i>Energies</i> , <b>2022</b> , 15, 2902	3.1	0