

# Gianpiero Colangelo

## List of Publications by Year in Descending Order

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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 | Experimental Evaluation of a Full-Scale HVAC System Working with Nanofluid. <i>Energies</i> , <b>2022</b> , 15, 2902   | 3.1 | 0         |
| 40 | 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         |
| 39 | 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         |
| 38 | Progresses in Analytical Design of Distribution Grids and Energy Storage. <i>Energies</i> , <b>2021</b> , 14, 4270   | 3.1 | 0         |
| 37 | 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         |
| 36 | Semi-Analytical Model for Heat and Mass Transfer Evaluation of Vapor Bubbling. <i>Energies</i> , <b>2020</b> , 13, 1104  | 3.1 | 0         |
| 35 | 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         |
| 34 | Numerical method for wind energy analysis in WTG siting. <i>Renewable Energy</i> , <b>2019</b> , 136, 202-210  | 8.1 | 3         |
| 33 | 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         |
| 32 | 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        |
| 31 | 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        |
| 30 | 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         |
| 29 | 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        |
| 28 | 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         |
| 27 | Numerical method for wind energy analysis applied to Apulia Region, Italy. <i>Energy</i> , <b>2017</b> , 128, 1-10   | 7.9 | 11        |
| 26 | 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         |
| 25 | Cooling of electronic devices: Nanofluids contribution. <i>Applied Thermal Engineering</i> , <b>2017</b> , 127, 421-435  | 5.8 | 107       |

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| 24 | 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  |
| 23 | 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  |
| 22 | 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  |
| 21 | 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 |
| 20 | 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  |
| 19 | 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  |
| 18 | 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 |
| 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> , <b>2016</b> , 9, 1065-1085   | 3    | 25  |
| 16 | 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  |
| 15 | 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  |
| 14 | 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  |
| 13 | 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  |
| 12 | 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  |
| 11 | 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 |
| 10 | Experimental test of an innovative high concentration nanofluid solar collector. <i>Applied Energy</i> , <b>2015</b> , 154, 874-881  | 10.7 | 86  |
| 9  | High efficiency nanofluid cooling system for wind turbines. <i>Thermal Science</i> , <b>2014</b> , 18, 543-554   | 1.2  | 33  |
| 8  | 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 |
| 7  | 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 |

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| 6 | 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 |
| 5 | 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  |
| 4 | 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  |
| 3 | An Experimental Study of High Pressure Nozzles in Consideration of Hole-to-Hole Spray Abnormalities <b>2000</b> ,   |      | 4   |
| 2 | 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   |
| 1 | Experimental performance comparison between circular and elliptical tubes in evaporative condensers. <i>Journal of Thermal Analysis and Calorimetry</i> , 1                 | 4.1  | 0   |