

# Arturo de Risi

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

68

papers

2,072

citations

19

h-index

44

g-index

74

ext. papers

2,345

ext. citations

5.4

avg, IF

5.16

L-index

#	Paper	IF	Citations
68	Experimental Evaluation of a Full-Scale HVAC System Working with Nanofluid. <i>Energies</i> , <b>2022</b> , 15, 2902	3.1	0
67	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
66	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
65	Progresses in Analytical Design of Distribution Grids and Energy Storage. <i>Energies</i> , <b>2021</b> , 14, 4270	3.1	0
64	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
63	In-cylinder soot concentration measurement by Neural Network Two Colour technique (NNTC) on a GDI engine. <i>Combustion and Flame</i> , <b>2020</b> , 217, 331-345	5.3	3
62	Experimental investigation on high-temperature hydrothermal carbonization of olive pomace in batch reactor <b>2019</b> ,		6
61	Effect of injection strategies on particulate matter structures of a turbocharged GDI engine. <i>Fuel</i> , <b>2019</b> , 237, 413-428	7.1	13
60	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
59	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
58	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
57	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
56	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
55	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
54	Benefits of Enabling Technologies for the ICE and Sharing Strategies in a CHP System for Residential Applications. <i>Journal of Energy Engineering - ASCE</i> , <b>2017</b> , 143, 04017007	1.7	3
53	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
52	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

51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	Experimental test of an innovative high concentration nanofluid solar collector. <i>Applied Energy</i> , <b>2015</b> , 154, 874-881	10.7	86
42	Real time oil control by surface plasmon resonance transduction methodology. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 223, 97-104	3.9	13
41	Surface Plasmon Resonance Optical Sensors for Engine Oil Monitoring. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 115-118	0.2	1
40	Simultaneous LII and TC optical correction of a low-sooting LPG diffusion flame. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2014</b> , 47, 989-1000	4.6	10
39	Numerical Study of Anaerobic Digestion System for Olive Pomace and Mill Wastewater. <i>Energy Procedia</i> , <b>2014</b> , 45, 141-149	2.3	9
38	Two-dimensional measurements of primary soot diameter in diffusion flames by two-dimensional time resolved laser induced incandescence. <i>IET Science, Measurement and Technology</i> , <b>2014</b> , 8, 107-115	1.5	3
37	High efficiency nanofluid cooling system for wind turbines. <i>Thermal Science</i> , <b>2014</b> , 18, 543-554	1.2	33
36	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
35	Modelling and optimization of transparent parabolic trough collector based on gas-phase nanofluids. <i>Renewable Energy</i> , <b>2013</b> , 58, 134-139	8.1	94
34	Thin film technology flexible thermoelectric generator and dedicated ASIC for energy harvesting applications <b>2013</b> ,		14

33	Wearable and flexible thermoelectric generator with enhanced package <b>2013</b> ,		8
32	Optical Absorption Measurements at High Temperature (500 °C) of Oxide Nanoparticles for Application as Gas-Based Nanofluid in Solar Thermal Collector Systems. <i>Advanced Materials Research</i> , <b>2013</b> , 773, 80-86	0.5	6
31	<b>2013</b> ,		2
30	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
29	Performance Optimization of Building Integrated-Mounted Wind Turbine. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 260-261, 69-76	0.3	1
28	On the Computer-Aided Conversion of a Diesel Engine to CNG-Dedicated or Dual Fuel Combustion Regime <b>2012</b> ,		2
27	Experimental and Fluid-dynamic Analysis of a Micro Wind Turbine in Urban Area <b>2011</b> ,		1
26	A New Energy-based Model for the Prediction of Primary Atomization of Urea-Water Sprays <b>2009</b> ,		2
25	Control Strategy Optimization of a Fuel-Cell Electric Vehicle. <i>Journal of Fuel Cell Science and Technology</i> , <b>2008</b> , 5,		10
24	Experimental investigation and combustion analysis of a direct injection dual-fuel diesel/natural gas engine. <i>Energy</i> , <b>2008</b> , 33, 256-263	7.9	163
23	3D Simulations And Experimental Validation of High EGR - PHCCI Combustion <b>2007</b> ,		4
22	The potential compatibility of offshore wind power and fisheries: An example using bluefin tuna in the Adriatic Sea. <i>Ocean and Coastal Management</i> , <b>2007</b> , 50, 597-605	3.9	45
21	Synopsis of experimentally determined effects of electrostatic charge on gasoline sprays. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 2762-2768	10.6	9
20	Super-capacitors fuel-cell hybrid electric vehicle optimization and control strategy development. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 3001-3008	10.6	146
19	Optical system for CO and NO gas detection in the exhaust manifold of combustion engines. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 2911-2917	10.6	3
18	Experimental investigation of the possibility of automotive gasoline spray manipulation through electrostatic fields. <i>International Journal of Vehicle Design</i> , <b>2007</b> , 45, 61	2.4	9
17	ELECTROSTATIC EFFECTS ON GASOLINE DIRECT INJECTION IN ATMOSPHERIC AMBIANCE <b>2007</b> , 17, 289-313		10
16	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

15	GaN optical system for CO and NO gas detection in the exhaust manifold of combustion engines. <i>Journal of Optics</i> , <b>2006</b> , 8, S545-S549		8
14	A new advanced approach to the design of combustion chambers in diesel engines. <i>International Journal of Vehicle Design</i> , <b>2006</b> , 41, 165	2.4	6
13	Experimental Analysis of Common Rail Pressure Wave Effect on Engine Emissions <b>2005</b> ,		8
12	An innovative methodology to improve the design and the performance of direct injection diesel engines. <i>International Journal of Engine Research</i> , <b>2004</b> , 5, 425-441	2.7	16
11	CFD Modeling of Pilot Injection and EGR in DI Diesel Engines <b>2004</b> , 251		6
10	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
9	Optimization of the Combustion Chamber of Direct Injection Diesel Engines <b>2003</b> ,		55
8	An Application of Multi-Criteria Genetic Algorithms to the Optimization of a Common-Rail Injector <b>2002</b> , 251		4
7	A Combined Optimization Method for Common Rail Diesel Engines <b>2002</b> , 243		5
6	Optimization of High Pressure Common Rail Electro-injector Using Genetic Algorithms <b>2001</b> ,		13
5	Theoretical Investigation on the Influence of Physical Parameters on Soot and NOx Engine Emissions <b>2001</b> ,		6
4	An Experimental Study of High Pressure Nozzles in Consideration of Hole-to-Hole Spray Abnormalities <b>2000</b> ,		4
3	High Efficiency Thermophotovoltaics for Automotive Applications <b>2000</b> ,		5
2	A Study of H <sub>2</sub> , CH <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> Mixing and Combustion in a Direct-Injection Stratified-Charge Engine <b>1997</b> ,		5
1	Development of common rail lube oil injector for large two-stroke marine diesel engines. <i>International Journal of Engine Research</i> , 146808742110080	2.7	1