Arturo de Risi

List of Publications by Citations

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	Review of heat transfer in nanofluids: Conductive, convective and radiative experimental results. *Renewable and Sustainable Energy Reviews*, **2015**, 43, 1182-1198	16.2	183
67	Experimental investigation and combustion analysis of a direct injection dual-fuel diesel–natural gas engine. *Energy*, **2008**, 33, 256-263	7.9	163
66	A new solution for reduced sedimentation flat panel solar thermal collector using nanofluids. *Applied Energy*, **2013**, 111, 80-93	10.7	153
65	Super-capacitors fuel-cell hybrid electric vehicle optimization and control strategy development. *Energy Conversion and Management*, **2007**, 48, 3001-3008	10.6	146
64	Thermal conductivity, viscosity and stability of Al 2 O 3 -diathermic oil nanofluids for solar energy systems. *Energy*, **2016**, 95, 124-136	7.9	132
63	Results of experimental investigations on the heat conductivity of nanofluids based on diathermic oil for high temperature applications. *Applied Energy*, **2012**, 97, 828-833	10.7	131
62	Innovation in flat solar thermal collectors: A review of the last ten years experimental results. *Renewable and Sustainable Energy Reviews*, **2016**, 57, 1141-1159	16.2	111
61	Modelling and optimization of transparent parabolic trough collector based on gas-phase nanofluids. *Renewable Energy*, **2013**, 58, 134-139	8.1	94
60	Experimental test of an innovative high concentration nanofluid solar collector. *Applied Energy*, **2015**, 154, 874-881	10.7	86
59	Optical absorption measurements of oxide nanoparticles for application as nanofluid in direct absorption solar power systems – Part I: Water-based nanofluids behavior. *Solar Energy Materials and Solar Cells*, **2016**, 147, 315-320	6.4	80
58	An explanation of the Al2O3 nanofluid thermal conductivity based on the phonon theory of liquid. *Energy*, **2016**, 116, 786-794	7.9	80
57	Experimental investigation of transparent parabolic trough collector based on gas-phase nanofluid. *Applied Energy*, **2017**, 203, 560-570	10.7	78
56	An investigation of layering phenomenon at the liquid–solid interface in Cu and CuO based nanofluids. *International Journal of Heat and Mass Transfer*, **2016**, 103, 564-571	4.9	78
55	Optical absorption measurements of oxide nanoparticles for application as nanofluid in direct absorption solar power systems – Part II: ZnO, CeO2, Fe2O3 nanoparticles behavior. *Solar Energy Materials and Solar Cells*, **2016**, 147, 321-326	6.4	59
54	Optimization of the Combustion Chamber of Direct Injection Diesel Engines **2003**,		55
53	The potential compatibility of offshore wind power and fisheries: An example using bluefin tuna in the Adriatic Sea. *Ocean and Coastal Management*, **2007**, 50, 597-605	3.9	45
52	High efficiency nanofluid cooling system for wind turbines. *Thermal Science*, **2014**, 18, 543-554	1.2	33

51	Experimental study of a burner with high temperature heat recovery system for TPV applications. *Energy Conversion and Management*, **2006**, 47, 1192-1206	10.6	29
50	New approaches to the design of the combustion system for thermophotovoltaic applications. *Semiconductor Science and Technology*, **2003**, 18, S262-S269	1.8	21
49	A critical analysis of clustering phenomenon in Al2O3 nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2019**, 135, 371-377	4.1	19
48	An innovative methodology to improve the design and the performance of direct injection diesel engines. *International Journal of Engine Research*, **2004**, 5, 425-441	2.7	16
47	Experimental Measurements of Al2O3 and CuO Nanofluids Interaction with Microwaves. *Journal of Energy Engineering - ASCE*, **2017**, 143, 04016045	1.7	15
46	Experimental investigation on 4-strokes biodiesel engine cooling system based on nanofluid. *Renewable Energy*, **2018**, 125, 319-326	8.1	14
45	Thin film technology flexible thermoelectric generator and dedicated ASIC for energy harvesting applications **2013**,		14
44	Modeling of double-loop fluidized bed solar reactor for efficient thermochemical fuel production. *Solar Energy Materials and Solar Cells*, **2017**, 160, 174-181	6.4	13
43	Real time oil control by surface plasmon resonance transduction methodology. *Sensors and Actuators A: Physical*, **2015**, 223, 97-104	3.9	13
42	Optimization of High Pressure Common Rail Electro-injector Using Genetic Algorithms **2001**,		13
41	Effect of injection strategies on particulate matter structures of a turbocharged GDI engine. *Fuel*, **2019**, 237, 413-428	7.1	13
40	Simultaneous LII and TC optical correction of a low-sooting LPG diffusion flame. *Measurement: Journal of the International Measurement Confederation*, **2014**, 47, 989-1000	4.6	10
39	Control Strategy Optimization of a Fuel-Cell Electric Vehicle. *Journal of Fuel Cell Science and Technology*, **2008**, 5,		10
38	ELECTROSTATIC EFFECTS ON GASOLINE DIRECT INJECTION IN ATMOSPHERIC AMBIANCE **2007**, 17, 289-313		10
37	Numerical Study of Anaerobic Digestion System for Olive Pomace and Mill Wastewater. *Energy Procedia*, **2014**, 45, 141-149	2.3	9
36	Synopsis of experimentally determined effects of electrostatic charge on gasoline sprays. *Energy Conversion and Management*, **2007**, 48, 2762-2768	10.6	9
35	Experimental investigation of the possibility of automotive gasoline spray manipulation through electrostatic fields. *International Journal of Vehicle Design*, **2007**, 45, 61	2.4	9
34	Wearable and flexible thermoelectric generator with enhanced package **2013**,		8

33	GaN optical system for CO and NO gas detection in the exhaust manifold of combustion engines. *Journal of Optics*, **2006**, 8, S545-S549		8
32	Experimental Analysis of Common Rail Pressure Wave Effect on Engine Emissions **2005**,		8
31	Optical Absorption Measurements at High Temperature (500 °C) of Oxide Nanoparticles for Application as Gas-Based Nanofluid in Solar Thermal Collector Systems. *Advanced Materials Research*, **2013**, 773, 80-86	0.5	6
30	A new advanced approach to the design of combustion chambers in diesel engines. *International Journal of Vehicle Design*, **2006**, 41, 165	2.4	6
29	CFD Modeling of Pilot Injection and EGR in DI Diesel Engines **2004**, 251		6
28	Theoretical Investigation on the Influence of Physical Parameters on Soot and NOx Engine Emissions **2001**,		6
27	Numerical Evaluation of a HVAC System Based on a High-Performance Heat Transfer Fluid. *Energies* , **2021**, 14, 3298	3.1	6
26	Experimental investigation on high-temperature hydrothermal carbonization of olive pomace in batch reactor **2019**,		6
25	A Study of H2, CH4, C2H6 Mixing and Combustion in a Direct-Injection Stratified-Charge Engine **1997**,		5
24	A Combined Optimization Method for Common Rail Diesel Engines **2002**, 243		5
23	High Efficiency Thermophotovoltaics for Automotive Applications **2000**,		5
22	Multi-parameter optimization of double-loop fluidized bed solar reactor for thermochemical fuel production. *Energy*, **2017**, 134, 919-932	7.9	4
21	Numerical Analysis of a Solar Air Preheating Coal Combustion System for Power Generation. *Journal of Energy Engineering - ASCE*, **2018**, 144, 04018038	1.7	4
20	3D Simulations And Experimental Validation of High EGR - PHCCI Combustion **2007**,		4
19	An Application of Multi-Criteria Genetic Algorithms to the Optimization of a Common-Rail Injector **2002**, 251		4
18	An Experimental Study of High Pressure Nozzles in Consideration of Hole-to-Hole Spray Abnormalities **2000**,		4
17	Benefits of Enabling Technologies for the ICE and Sharing Strategies in a CHP System for Residential Applications. *Journal of Energy Engineering - ASCE*, **2017**, 143, 04017007	1.7	3
16	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	2.3	3

15	Two-dimensional measurements of primary soot diameter in diffusion flames by two-dimensional time resolved laser induced incandescence. *IET Science, Measurement and Technology*, **2014**, 8, 107-115	1.5	3
14	Optical system for CO and NO gas detection in the exhaust manifold of combustion engines. *Energy Conversion and Management*, **2007**, 48, 2911-2917	10.6	3
13	In-cylinder soot concentration measurement by Neural Network Two Colour technique (NNTC) on a GDI engine. *Combustion and Flame*, **2020**, 217, 331-345	5.3	3
12	**2013**,		2
11	A New Energy-based Model for the Prediction of Primary Atomization of Urea-Water Sprays **2009**,		2
10	On the Computer-Aided Conversion of a Diesel Engine to CNG-Dedicated or Dual Fuel Combustion Regime **2012**,		2
9	Development of a High-Flux Solar Simulator for Experimental Testing of High-Temperature Applications. *Energies*, **2021**, 14, 3124	3.1	2
8	Energy simulation of a nanofluid solar cooling system in Italy. *Proceedings of the Institution of Civil Engineers: Engineering Sustainability*, **2019**, 172, 32-39	0.9	2
7	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	3.1	2
6	Performance Optimization of Building Integrated-Mounted Wind Turbine. *Applied Mechanics and Materials*, **2012**, 260-261, 69-76	0.3	1
5	Experimental and Fluid-dynamic Analysis of a Micro Wind Turbine in Urban Area **2011**,		1
4	Surface Plasmon Resonance Optical Sensors for Engine Oil Monitoring. *Lecture Notes in Electrical Engineering*, **2015**, 115-118	0.2	1
3	Development of common rail lube oil injector for large two-stroke marine diesel engines. *International Journal of Engine Research*,146808742110080	2.7	1
2	Progresses in Analytical Design of Distribution Grids and Energy Storage. *Energies*, **2021**, 14, 4270	3.1	0
1	Experimental Evaluation of a Full-Scale HVAC System Working with Nanofluid. *Energies*, **2022**, 15, 2902	3.1	0