

Arturo de Risi

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,571
citations

361296

20
h-index

206029

48
g-index

74
all docs

74
docs citations

74
times ranked

2270
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Experimental investigation and combustion analysis of a direct injection dual-fuel diesel-natural gas engine. <i>Energy</i> , 2008, 33, 256-263.	4.5	187
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	Super-capacitors fuel-cell hybrid electric vehicle optimization and control strategy development. <i>Energy Conversion and Management</i> , 2007, 48, 3001-3008.	4.4	175
5	Thermal conductivity, viscosity and stability of Al ₂ O ₃ -diathermic oil nanofluids for solar energy systems. <i>Energy</i> , 2016, 95, 124-136.	4.5	166
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	Modelling and optimization of transparent parabolic trough collector based on gas-phase nanofluids. <i>Renewable Energy</i> , 2013, 58, 134-139.	4.3	116
9	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> , 2016, 103, 564-571.	2.5	103
10	Experimental test of an innovative high concentration nanofluid solar collector. <i>Applied Energy</i> , 2015, 154, 874-881.	5.1	101
11	An explanation of the Al ₂ O ₃ nanofluid thermal conductivity based on the phonon theory of liquid. <i>Energy</i> , 2016, 116, 786-794.	4.5	101
12	Experimental investigation of transparent parabolic trough collector based on gas-phase nanofluid. <i>Applied Energy</i> , 2017, 203, 560-570.	5.1	95
13	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
14	Optical absorption measurements of oxide nanoparticles for application as nanofluid in direct absorption solar power systems - Part II: ZnO, CeO ₂ , Fe ₂ O ₃ nanoparticles behavior. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 321-326.	3.0	75
15	Optimization of the Combustion Chamber of Direct Injection Diesel Engines. , 0, , .		73
16	The potential compatibility of offshore wind power and fisheries: An example using bluefin tuna in the Adriatic Sea. <i>Ocean and Coastal Management</i> , 2007, 50, 597-605.	2.0	55
17	High efficiency nanofluid cooling system for wind turbines. <i>Thermal Science</i> , 2014, 18, 543-554.	0.5	48
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

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19	A critical analysis of clustering phenomenon in Al ₂ O ₃ nanofluids. Journal of Thermal Analysis and Calorimetry, 2019, 135, 371-377.	2.0	31
20	New approaches to the design of the combustion system for thermophotovoltaic applications. Semiconductor Science and Technology, 2003, 18, S262-S269.	1.0	24
21	Effect of injection strategies on particulate matter structures of a turbocharged GDI engine. Fuel, 2019, 237, 413-428.	3.4	21
22	An innovative methodology to improve the design and the performance of direct injection diesel engines. International Journal of Engine Research, 2004, 5, 425-441.	1.4	20
23	Experimental Measurements of Al ₂ O ₃ and CuO Nanofluids Interaction with Microwaves. Journal of Energy Engineering - ASCE, 2017, 143, 04016045.	1.0	20
24	Control Strategy Optimization of a Fuel-Cell Electric Vehicle. Journal of Fuel Cell Science and Technology, 2008, 5, .	0.8	19
25	Thin film technology flexible thermoelectric generator and dedicated ASIC for energy harvesting applications. , 2013, , .		18
26	Experimental investigation on 4-strokes biodiesel engine cooling system based on nanofluid. Renewable Energy, 2018, 125, 319-326.	4.3	18
27	Optimization of High Pressure Common Rail Electro-injector Using Genetic Algorithms. , 2001, , .		16
28	Experimental Analysis of Common Rail Pressure Wave Effect on Engine Emissions. , 2005, , .		14
29	Experimental investigation of the possibility of automotive gasoline spray manipulation through electrostatic fields. International Journal of Vehicle Design, 2007, 45, 61.	0.1	14
30	Synopsis of experimentally determined effects of electrostatic charge on gasoline sprays. Energy Conversion and Management, 2007, 48, 2762-2768.	4.4	14
31	Real time oil control by surface plasmon resonance transduction methodology. Sensors and Actuators A: Physical, 2015, 223, 97-104.	2.0	14
32	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
33	ELECTROSTATIC EFFECTS ON GASOLINE DIRECT INJECTION IN ATMOSPHERIC AMBIANCE. , 2007, 17, 289-313.		14
34	Simultaneous LII and TC optical correction of a low-sooting LPG diffusion flame. Measurement: Journal of the International Measurement Confederation, 2014, 47, 989-1000.	2.5	12
35	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
36	Numerical Study of Anaerobic Digestion System for Olive Pomace and Mill Wastewater. Energy Procedia, 2014, 45, 141-149.	1.8	11

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37	Wearable and flexible thermoelectric generator with enhanced package. Proceedings of SPIE, 2013, , .	0.8	10
38	Numerical Evaluation of a HVAC System Based on a High-Performance Heat Transfer Fluid. Energies, 2021, 14, 3298.	1.6	10
39	Theoretical Investigation on the Influence of Physical Parameters on Soot and NOx Engine Emissions. , 2001, , .		9
40	CFD Modeling of Pilot Injection and EGR in DI Diesel Engines. , 2004, , 251.		8
41	A new advanced approach to the design of combustion chambers in diesel engines. International Journal of Vehicle Design, 2006, 41, 165.	0.1	8
42	GaN optical system for CO and NO gas detection in the exhaust manifold of combustion engines. Journal of Optics, 2006, 8, S545-S549.	1.5	8
43	A Study of H ₂ , CH ₄ , C ₂ H ₆ Mixing and Combustion in a Direct-Injection Stratified-Charge Engine. , 0, , .		7
44	An Application of Multi-Criteria Genetic Algorithms to the Optimization of a Common-Rail Injector. , 2002, , 251.		7
45	Optical Absorption Measurements at High Temperature (500 Â°C) of Oxide Nanoparticles for Application as Gas-Based Nanofluid in Solar Thermal Collector Systems. Advanced Materials Research, 0, 773, 80-86.	0.3	7
46	Numerical Analysis of a Solar Air Preheating Coal Combustion System for Power Generation. Journal of Energy Engineering - ASCE, 2018, 144, .	1.0	7
47	Experimental investigation on high-temperature hydrothermal carbonization of olive pomace in batch reactor. AIP Conference Proceedings, 2019, , .	0.3	7
48	Development of a High-Flux Solar Simulator for Experimental Testing of High-Temperature Applications. Energies, 2021, 14, 3124.	1.6	7
49	In-cylinder soot concentration measurement by Neural Network Two Colour technique (NNTC) on a GDI engine. Combustion and Flame, 2020, 217, 331-345.	2.8	7
50	High Efficiency Thermophotovoltaics for Automotive Applications. , 2000, , .		6
51	A Combined Optimization Method for Common Rail Diesel Engines. , 2002, , 243.		6
52	An Experimental Study of High Pressure Nozzles in Consideration of Hole-to-Hole Spray Abnormalities. , 2000, , .		5
53	3D Simulations And Experimental Validation of High EGR - PHCCI Combustion. , 2007, , .		5
54	Multi-parameter optimization of double-loop fluidized bed solar reactor for thermochemical fuel production. Energy, 2017, 134, 919-932.	4.5	5

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55	Experimental Evaluation of a Full-Scale HVAC System Working with Nanofluid. <i>Energies</i> , 2022, 15, 2902.	1.6	5
56	Benefits of Enabling Technologies for the ICE and Sharing Strategies in a CHP System for Residential Applications. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, 04017007.	1.0	4
57	Numerical Optimization of SPR Sensors for Lube Oil Real-Time Optical Characterization in Large 2-Stroke Marine Diesel Engines. <i>Energy Procedia</i> , 2017, 126, 1075-1082.	1.8	4
58	Energy simulation of a nanofluid solar cooling system in Italy. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2019, 172, 32-39.	0.4	4
59	Optical system for CO and NO gas detection in the exhaust manifold of combustion engines. <i>Energy Conversion and Management</i> , 2007, 48, 2911-2917.	4.4	3
60	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> , 2014, 8, 107-115.	0.9	3
61	Progresses in Analytical Design of Distribution Grids and Energy Storage. <i>Energies</i> , 2021, 14, 4270.	1.6	3
62	Optimization of a Four Stroke Engine by Means of Experimental and 1-D Numerical Analysis. , 2000, , .		2
63	A New Energy-based Model for the Prediction of Primary Atomization of Urea-Water Sprays. , 2009, , .		2
64	On the Computer-Aided Conversion of a Diesel Engine to CNG-Dedicated or Dual Fuel Combustion Regime. , 2012, , .		2
65	Structural reliability and thermal insulation performance of flexible thermoelectric generator for wearable sensors. , 2013, , .		2
66	Performance Optimization of Building Integrated-Mounted Wind Turbine. <i>Applied Mechanics and Materials</i> , 0, 260-261, 69-76.	0.2	1
67	Development of common rail lube oil injector for large two-stroke marine diesel engines. <i>International Journal of Engine Research</i> , 0, , 146808742110080.	1.4	1
68	Experimental and Fluid-dynamic Analysis of a Micro Wind Turbine in Urban Area. , 2011, , .		1
69	Experimental Investigation of Electrostatically Charged Liquid Hydrocarbon Sprays for Power Generation Applications. , 2005, , .		0
70	Numerical Simulation of CSP Based on Nanorectenna Technology. , 2012, , .		0
71	Experimental Setup for Investigation on Microwaves Interaction with Nanofluids. , 2015, , .		0
72	Design and experiments to investigate spray and impingement characteristics of a common rail type lubrication system. , 0, , .		0