Riccardo Amirante

List of Publications by Year
in descending order

73	2,014	331642	276858
papers	citations	21 h-index	41 g-index

74	74	74	1665
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Validation of a Simulink Model for Simulating the Two Typical Controlled Ventilation Modes of Intensive Care Units Mechanical Ventilators. Applied Sciences (Switzerland), 2022, 12, 2057.	2.5	2
2	NMR-based metabolomic study of Apulian Coratina extra virgin olive oil extracted with a combined ultrasound and thermal conditioning process in an industrial setting. Food Chemistry, 2021, 345, 128778.	8.2	11
3	Direct Drive Servovalves Actuated by Amplified Piezo-Stacks: Assessment through a Detailed Numerical Analysis. Actuators, 2021, 10, 156.	2.3	3
4	A Review of Novel Architectures of Servovalves Driven by Piezoelectric Actuators. Energies, 2021, 14, 4858.	3.1	8
5	Determination of hydroxytyrosol and tyrosol in human urine after intake of extra virgin olive oil produced with an ultrasounds-based technology. Journal of Pharmaceutical and Biomedical Analysis, 2021, 203, 114204.	2.8	3
6	Simulation of a high frequency on/off valve actuated by a piezo-ring stack for digital hydraulics. E3S Web of Conferences, 2021, 312, 05008.	0.5	2
7	Predicting lubricant oil induced pre-ignition phenomena in modern gasoline engines: The reduced GasLube reaction mechanism. Fuel, 2020, 281, 118709.	6.4	21
8	Analysis of the combustion process in a lean-burning turbulent jet ignition engine fueled with methane. Energy Conversion and Management, 2020, 223, 113257.	9.2	37
9	Evolution of Soot Particle Number, Mass and Size Distribution along the Exhaust Line of a Heavy-Duty Engine Fueled with Compressed Natural Gas. Energies, 2020, 13, 3993.	3.1	20
10	Feasibility study of using amplified piezo-stack actuators for the actuation of direct drive servovalves. E3S Web of Conferences, 2020, 197, 07004.	0.5	1
11	A Novel Servovalve Pilot Stage Actuated by a Piezo-Electric Ring Bender (Part II): Design Model and Full Simulation. Energies, 2020, 13, 2267.	3.1	13
12	A Novel Servovalve Pilot Stage Actuated by a Piezo-electric Ring Bender: A Numerical and Experimental Analysis. Energies, 2020, 13, 671.	3.1	13
13	A Review of Direct Drive Proportional Electrohydraulic Spool Valves: Industrial State-of-the-Art and Research Advancements. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	37
14	Understanding the role of soot oxidation in gasoline combustion: A numerical study on the effects of oxygen enrichment on particulate mass and number emissions in a spark-ignition engine. Energy Conversion and Management, 2019, 184, 24-39.	9.2	28
15	CFD analysis of the squeeze film damping mechanism in the first stage of servovalves. AIP Conference Proceedings, 2019, , .	0.4	0
16	Internal leakage in the main stage of servovalves: An analytical and CFD analysis. AIP Conference Proceedings, 2019, , .	0.4	5
17	A biomass small-scale externally fired combined cycle plant for heat and power generation in rural communities. Renewable Energy Focus, 2019, 28, 36-46.	4.5	24
18	Full simulation of a piezoelectric double nozzle flapper pilot valve coupled with a main stage spool valve. Energy Procedia, 2018, 148, 487-494.	1.8	18

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19	Steady-state Characterization of Particle Number Emissions from a Heavy-Duty Euro VI Engine Fueled with Compressed Natural Gas. Energy Procedia, 2018, 148, 671-678.	1.8	19
20	Investigation of Lubricant Oil influence on Ignition of Gasoline-like Fuels by a Detailed Reaction Mechanism. Energy Procedia, 2018, 148, 663-670.	1.8	22
21	Impact of the laminar flame speed correlation on the results of a quasi-dimensional combustion model for Spark-Ignition engine. Energy Procedia, 2018, 148, 631-638.	1.8	19
22	Thermodynamic analysis of small-scale externally fired gas turbines and combined cycles using turbo-compound components for energy generation from solid biomass. Energy Conversion and Management, 2018, 166, 648-662.	9.2	13
23	Engineering design and prototype development of a full scale ultrasound system for virgin olive oil by means of numerical and experimental analysis. Ultrasonics Sonochemistry, 2017, 37, 169-181.	8.2	49
24	Effects of natural gas composition on performance and regulated, greenhouse gas and particulate emissions in spark-ignition engines. Energy Conversion and Management, 2017, 143, 338-347.	9.2	53
25	Effects of lubricant oil on particulate emissions from port-fuel and direct-injection spark-ignition engines. International Journal of Engine Research, 2017, 18, 606-620.	2.3	41
26	Developments in the design and construction of continuous full-scale ultrasonic devices for the EVOO industry. European Journal of Lipid Science and Technology, 2017, 119, 1600438.	1.5	15
27	Design of a novel open space test rig for small scale wind turbine. Energy Procedia, 2017, 126, 628-635.	1.8	2
28	Analytical Correlations for Modeling the Laminar Flame Speed of Natural Gas Surrogate Mixtures. Energy Procedia, 2017, 126, 850-857.	1.8	17
29	Experimental prototype development and performance analysis of a small-scale combined cycle for energy generation from biomass. Energy Procedia, 2017, 126, 659-666.	1.8	4
30	Thermodynamic analysis of a small scale combined cycle for energy generation from carbon neutral biomass. Energy Procedia, 2017, 129, 891-898.	1.8	12
31	Acoustic cavitation by means ultrasounds in the extra virgin olive oil extraction process. Energy Procedia, 2017, 126, 82-90.	1.8	22
32	Laminar flame speed correlations for methane, ethane, propane and their mixtures, and natural gas and gasoline for spark-ignition engine simulations. International Journal of Engine Research, 2017, 18, 951-970.	2.3	101
33	Optical device for measuring the injectors opening in common rail systems. International Journal of Automotive Technology, 2017, 18, 729-742.	1.4	24
34	Novel, cost-effective configurations of combined power plants for small-scale cogeneration from biomass: Design of the immersed particle heat exchanger. Energy Conversion and Management, 2017, 148, 876-894.	9.2	23
35	Overview on recent developments in energy storage: Mechanical, electrochemical and hydrogen technologies. Energy Conversion and Management, 2017, 132, 372-387.	9.2	352
36	Experimental Investigations on the Sources of Particulate Emission within a Natural Gas Spark-Ignition Engine. , 2017, , .		10

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37	LabZERO, an interdisciplinary living laboratory for the promotion of renewables and energy efficiency. , 2016, , .		2
38	Sliding spool design for reducing the actuation forces in direct operated proportional directional valves: Experimental validation. Energy Conversion and Management, 2016, 119, 399-410.	9.2	63
39	Tangential inlet cyclone separators with low solid loading. Engineering Computations, 2016, 33, 2090-2116.	1.4	4
40	A tri-generation plant fuelled with olive tree pruning residues in Apulia: An energetic and economic analysis. Renewable Energy, 2016, 89, 411-421.	8.9	45
41	Accurate Radial Vaneless Diffuser One-Dimensional Model. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	1
42	A Small Size Combined System for the Production of Energy from Renewable Sources and Unconventional Fuels. Energy Procedia, 2015, 81, 240-248.	1.8	16
43	Research and Innovative Approaches to Obtain Virgin Olive Oils with a Higher Level of Bioactive Constituents. , 2015, , 179-215.		30
44	Novel, cost-effective configurations of combined power plants for small-scale cogeneration from biomass: Feasibility study and performance optimization. Energy Conversion and Management, 2015, 97, 111-120.	9.2	44
45	An Explicit, Non-Iterative, Single Equation Formulation for an Accurate One Dimensional Estimation of Vaneless Radial Diffusers in Turbomachines. Journal of Mechanics, 2015, 31, 113-122.	1.4	2
46	The importance of a full 3D fluid dynamic analysis to evaluate the flow forces in a hydraulic directional proportional valve. Engineering Computations, 2014, 31, 898-922.	1.4	44
47	Fluid-dynamic design optimization of hydraulic proportional directional valves. Engineering Optimization, 2014, 46, 1295-1314.	2.6	64
48	Experimental and numerical analysis of cavitation in hydraulic proportional directional valves. Energy Conversion and Management, 2014, 87, 208-219.	9.2	103
49	Accurate Radial Vaneless Diffuser 1D Model. , 2014, , .		2
50	High Temperature Gas-to-Gas Heat Exchanger Based on a Solid Intermediate Medium. Advances in Mechanical Engineering, 2014, 6, 353586.	1.6	11
51	A New Optical Sensor for the Measurement of the Displacement of the Needle in a Common Rail Injector. , 2013, , .		10
52	Theoretical and Experimental Analysis of a Coupled System Proportional Control Valve and Hydraulic Cylinder. Universal Journal of Engineering Science, 2013, 1, 45-56.	0.2	4
53	Thrust Control of Small Turbojet Engines Using Fuzzy Logic: Design and Experimental Validation. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	11
54	Thrust Control of Small Turbojet Engines Using Fuzzy Logic: Design and Experimental Validation. , 2012, , .		2

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55	Analysis of the complementary energy losses of a high temperature gas to gas heat exchanger based on a solid intermediate medium. , 2012, , .		6
56	Development and Testing of Sustainable Refrigeration Plants. , 2011, , .		3
57	An Immersed Particle Heat Exchanger for Externally Fired and Heat Recovery Gas Turbines. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	1.1	21
58	An Adaptive Fuzzy Logic Algorithm for the Thrust Control of a Small Turbojet Engine. , 2010, , .		2
59	A High-Efficiency Heat Exchanger for Closed Cycle and Heat Recovery Gas Turbines. , 2010, , .		1
60	Parametric Study of an Innovative Counter-Flow Heat Exchanger. , 2010, , .		1
61	Boosted PWM open loop control of hydraulic proportional valves. Energy Conversion and Management, 2008, 49, 2225-2236.	9.2	36
62	Evaluation of the flow forces on a direct (single stage) proportional valve by means of a computational fluid dynamic analysis. Energy Conversion and Management, 2007, 48, 942-953.	9.2	128
63	Flow forces analysis of an open center hydraulic directional control valve sliding spool. Energy Conversion and Management, 2006, 47, 114-131.	9.2	96
64	Evaluation of the flow forces on an open centre directional control valve by means of a computational fluid dynamic analysis. Energy Conversion and Management, 2006, 47, 1748-1760.	9.2	96
65	On the Use of Fast-Response Pressure Transducers in a Common-Rail Diesel Injection System. , 2006, , .		3
66	PHâ€”Postharvest Technology. Biosystems Engineering, 2000, 77, 193-201.	0.4	24
67	Planning and automated management of a horticultural station. Energy Conversion and Management, 2000, 41, 1237-1246.	9.2	7
68	Towards the Development of the In-Cylinder Pressure Measurement Based on the Strain Gauge Technique for Internal Combustion Engines. , 0, , .		17
69	Measured and Predicted Soot Particle Emissions from Natural Gas Engines. , 0, , .		21
70	A review of electro-hydraulic servovalve research and development. International Journal of Fluid Power, 0, , 1-23.	0.7	31
71	Does the Introduction of Ultrasound in Extra-Virgin Olive Oil Extraction Process Improve the Income of the Olive Millers? The First Technology for the Simultaneous Increment of Yield and Quality of the Product. , 0, , .		4
72	Experimental and Numerical Analysis of a Pre-Chamber Turbulent Jet Ignition Combustion System. , 0, , .		11

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73	Lubricant-Oil-Induced Pre-ignition Phenomena in Modern Gasoline Engines: Using Experimental Data and Numerical Chemistry to Develop a Practical Correlation. , 0, , .		1