

Elia Distaso

List of Publications by Citations

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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.

44
papers

911
citations

15
h-index

29
g-index

49
ext. papers

1,161
ext. citations

4.7
avg, IF

4.75
L-index

#	Paper	IF	Citations
44	Overview on recent developments in energy storage: Mechanical, electrochemical and hydrogen technologies. <i>Energy Conversion and Management</i> , 2017 , 132, 372-387	10.6	264
43	Experimental and numerical analysis of cavitation in hydraulic proportional directional valves. <i>Energy Conversion and Management</i> , 2014 , 87, 208-219	10.6	66
42	Laminar flame speed correlations for methane, ethane, propane and their mixtures, and natural gas and gasoline for spark-ignition engine simulations. <i>International Journal of Engine Research</i> , 2017 , 18, 951-970	2.7	55
41	Sliding spool design for reducing the actuation forces in direct operated proportional directional valves: Experimental validation. <i>Energy Conversion and Management</i> , 2016 , 119, 399-410	10.6	41
40	Engineering design and prototype development of a full scale ultrasound system for virgin olive oil by means of numerical and experimental analysis. <i>Ultrasonics Sonochemistry</i> , 2017 , 37, 169-181	8.9	39
39	Effects of natural gas composition on performance and regulated, greenhouse gas and particulate emissions in spark-ignition engines. <i>Energy Conversion and Management</i> , 2017 , 143, 338-347	10.6	39
38	A tri-generation plant fuelled with olive tree pruning residues in Apulia: An energetic and economic analysis. <i>Renewable Energy</i> , 2016 , 89, 411-421	8.1	38
37	Effects of lubricant oil on particulate emissions from port-fuel and direct-injection spark-ignition engines. <i>International Journal of Engine Research</i> , 2017 , 18, 606-620	2.7	28
36	Thermoeconomic optimisation of small-scale organic Rankine cycle systems based on screw vs. piston expander maps in waste heat recovery applications. <i>Energy Conversion and Management</i> , 2019 , 200, 112053	10.6	22
35	A Review of Direct Drive Proportional Electrohydraulic Spool Valves: Industrial State-of-the-Art and Research Advancements. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	21
34	Novel, cost-effective configurations of combined power plants for small-scale cogeneration from biomass: Design of the immersed particle heat exchanger. <i>Energy Conversion and Management</i> , 2017 , 148, 876-894	10.6	21
33	Acoustic cavitation by means ultrasounds in the extra virgin olive oil extraction process. <i>Energy Procedia</i> , 2017 , 126, 82-90	2.3	19
32	A biomass small-scale externally fired combined cycle plant for heat and power generation in rural communities. <i>Renewable Energy Focus</i> , 2019 , 28, 36-46	5.4	18
31	Measured and Predicted Soot Particle Emissions from Natural Gas Engines 2015 ,		16
30	A review of electro-hydraulic servovalve research and development. <i>International Journal of Fluid Power</i> , 2018 , 1-23		16
29	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. <i>Energy Conversion and Management</i> , 2019 , 184, 24-39	10.6	14
28	Optical device for measuring the injectors opening in common rail systems. <i>International Journal of Automotive Technology</i> , 2017 , 18, 729-742	1.6	14

27	A Small Size Combined System for the Production of Energy from Renewable Sources and Unconventional Fuels. <i>Energy Procedia</i> , 2015 , 81, 240-248	2.3	13
26	Full simulation of a piezoelectric double nozzle flapper pilot valve coupled with a main stage spool valve. <i>Energy Procedia</i> , 2018 , 148, 487-494	2.3	13
25	Analytical Correlations for Modeling the Laminar Flame Speed of Natural Gas Surrogate Mixtures. <i>Energy Procedia</i> , 2017 , 126, 850-857	2.3	12
24	Thermodynamic analysis of small-scale externally fired gas turbines and combined cycles using turbo-compound components for energy generation from solid biomass. <i>Energy Conversion and Management</i> , 2018 , 166, 648-662	10.6	12
23	Analysis of the combustion process in a lean-burning turbulent jet ignition engine fueled with methane. <i>Energy Conversion and Management</i> , 2020 , 223, 113257	10.6	12
22	Investigation of Lubricant Oil influence on Ignition of Gasoline-like Fuels by a Detailed Reaction Mechanism. <i>Energy Procedia</i> , 2018 , 148, 663-670	2.3	12
21	Thermodynamic analysis of a small scale combined cycle for energy generation from carbon neutral biomass. <i>Energy Procedia</i> , 2017 , 129, 891-898	2.3	11
20	Towards the Development of the In-Cylinder Pressure Measurement Based on the Strain Gauge Technique for Internal Combustion Engines 2015 ,		11
19	Impact of the laminar flame speed correlation on the results of a quasi-dimensional combustion model for Spark-Ignition engine. <i>Energy Procedia</i> , 2018 , 148, 631-638	2.3	11
18	Steady-state Characterization of Particle Number Emissions from a Heavy-Duty Euro VI Engine Fueled with Compressed Natural Gas. <i>Energy Procedia</i> , 2018 , 148, 671-678	2.3	10
17	A Novel Servovalve Pilot Stage Actuated by a Piezo-Electric Ring Bender (Part II): Design Model and Full Simulation. <i>Energies</i> , 2020 , 13, 2267	3.1	9
16	A Novel Servovalve Pilot Stage Actuated by a Piezo-electric Ring Bender: A Numerical and Experimental Analysis. <i>Energies</i> , 2020 , 13, 671	3.1	8
15	Predicting lubricant oil induced pre-ignition phenomena in modern gasoline engines: The reduced GasLube reaction mechanism. <i>Fuel</i> , 2020 , 281, 118709	7.1	8
14	Experimental Investigations on the Sources of Particulate Emission within a Natural Gas Spark-Ignition Engine 2017 ,		7
13	Evolution of Soot Particle Number, Mass and Size Distribution along the Exhaust Line of a Heavy-Duty Engine Fueled with Compressed Natural Gas. <i>Energies</i> , 2020 , 13, 3993	3.1	7
12	Experimental and Numerical Analysis of a Pre-Chamber Turbulent Jet Ignition Combustion System		5
11	Experimental prototype development and performance analysis of a small-scale combined cycle for energy generation from biomass. <i>Energy Procedia</i> , 2017 , 126, 659-666	2.3	4
10	NMR-based metabolomic study of Apulian Coratina extra virgin olive oil extracted with a combined ultrasound and thermal conditioning process in an industrial setting. <i>Food Chemistry</i> , 2021 , 345, 128778	8.5	4

9	Internal leakage in the main stage of servovalves: An analytical and CFD analysis 2019 ,			3
8	Design of a novel open space test rig for small scale wind turbine. <i>Energy Procedia</i> , 2017 , 126, 628-635	2.3		1
7	Feasibility study of using amplified piezo-stack actuators for the actuation of direct drive servovalves. <i>E3S Web of Conferences</i> , 2020 , 197, 07004		0.5	1
6	Fluid dynamic-based Engineering design of a Full-Scale Device for the improvement of Extra Virgin Olive Oil Yield and Quality by means of Combined Acoustic Cavitation and Thermal Conditioning. <i>E3S Web of Conferences</i> , 2020 , 197, 08010		0.5	1
5	Direct Drive Servovalves Actuated by Amplified Piezo-Stacks: Assessment through a Detailed Numerical Analysis. <i>Actuators</i> , 2021 , 10, 156		2.4	1
4	A Review of Novel Architectures of Servovalves Driven by Piezoelectric Actuators. <i>Energies</i> , 2021 , 14, 4858		3.1	1
3	Validation of a Simulink Model for Simulating the Two Typical Controlled Ventilation Modes of Intensive Care Units Mechanical Ventilators. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2057		2.6	1
2	An Explicit, Non-Iterative, Single Equation Formulation for an Accurate One Dimensional Estimation of Vaneless Radial Diffusers in Turbomachines. <i>Journal of Mechanics</i> , 2015 , 31, 113-122		1	0
1	Simulation of a high frequency on/off valve actuated by a piezo-ring stack for digital hydraulics. <i>E3S Web of Conferences</i> , 2021 , 312, 05008		0.5	0