

Elia Distaso

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3193270/elia-distaso-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
43	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
42	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
41	Direct Drive Servovalves Actuated by Amplified Piezo-Stacks: Assessment through a Detailed Numerical Analysis. <i>Actuators</i> , 2021 , 10, 156	2.4	1
40	A Review of Novel Architectures of Servovalves Driven by Piezoelectric Actuators. <i>Energies</i> , 2021 , 14, 4858	3.1	1
39	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
38	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
37	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
36	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
35	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
34	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
33	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
32	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
31	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
30	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
29	Internal leakage in the main stage of servovalves: An analytical and CFD analysis 2019 ,		3
28	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

27	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
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	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
24	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
23	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
22	A review of electro-hydraulic servovalve research and development. <i>International Journal of Fluid Power</i> , 2018 , 1-23		16
21	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
20	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
19	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
18	Design of a novel open space test rig for small scale wind turbine. <i>Energy Procedia</i> , 2017 , 126, 628-635	2.3	1
17	Analytical Correlations for Modeling the Laminar Flame Speed of Natural Gas Surrogate Mixtures. <i>Energy Procedia</i> , 2017 , 126, 850-857	2.3	12
16	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
15	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
14	Acoustic cavitation by means ultrasounds in the extra virgin olive oil extraction process. <i>Energy Procedia</i> , 2017 , 126, 82-90	2.3	19
13	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
12	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
11	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
10	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

9	Experimental Investigations on the Sources of Particulate Emission within a Natural Gas Spark-Ignition Engine 2017 ,		7
8	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
7	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
6	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
5	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
4	Towards the Development of the In-Cylinder Pressure Measurement Based on the Strain Gauge Technique for Internal Combustion Engines 2015 ,		11
3	Measured and Predicted Soot Particle Emissions from Natural Gas Engines 2015 ,		16
2	Experimental and numerical analysis of cavitation in hydraulic proportional directional valves. <i>Energy Conversion and Management</i> , 2014 , 87, 208-219	10.6	66
1	Experimental and Numerical Analysis of a Pre-Chamber Turbulent Jet Ignition Combustion System		5