Tamburrano Paolo

List of Publications by Year in Descending Order

36 papers	877 citations	15 h-index	29 g-index
38 ext. papers	1,079 ext. citations	4.7 avg, IF	4.73 L-index

#	Paper	IF	Citations
36	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	2.6	1
35	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	0
34	Direct Drive Servovalves Actuated by Amplified Piezo-Stacks: Assessment through a Detailed Numerical Analysis. *Actuators*, **2021**, 10, 156	2.4	1
33	A Review of Novel Architectures of Servovalves Driven by Piezoelectric Actuators. *Energies*, **2021**, 14, 4858	3.1	1
32	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	9
31	A Novel Servovalve Pilot Stage Actuated by a Piezo-electric Ring Bender: A Numerical and Experimental Analysis. *Energies*, **2020**, 13, 671	3.1	8
30	Analysis of the combustion process in a lean-burning turbulent jet ignition engine fueled with methane. *Energy Conversion and Management*, **2020**, 223, 113257	10.6	12
29	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	7
28	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	21
27	Internal leakage in the main stage of servovalves: An analytical and CFD analysis **2019**,		3
26	A biomass small-scale externally fired combined cycle plant for heat and power generation in rural communities. *Renewable Energy Focus*, **2019**, 28, 36-46	5.4	18
25	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	10.6	12
24	Full simulation of a piezoelectric double nozzle flapper pilot valve coupled with a main stage spool valve. *Energy Procedia*, **2018**, 148, 487-494	2.3	13
23	A review of electro-hydraulic servovalve research and development. *International Journal of Fluid Power*, **2018**, 1-23		16
22	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	8.9	39
21	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	2.7	28
20	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	2.7	55

19	Optical device for measuring the injectors opening in common rail systems. *International Journal of Automotive Technology*, **2017**, 18, 729-742	1.6	14
18	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	10.6	21
17	Overview on recent developments in energy storage: Mechanical, electrochemical and hydrogen technologies. *Energy Conversion and Management*, **2017**, 132, 372-387	10.6	264
16	Experimental Investigations on the Sources of Particulate Emission within a Natural Gas Spark-Ignition Engine **2017**,		7
15	A tri-generation plant fuelled with olive tree pruning residues in Apulia: An energetic and economic analysis. *Renewable Energy*, **2016**, 89, 411-421	8.1	38
14	Sliding spool design for reducing the actuation forces in direct operated proportional directional valves: Experimental validation. *Energy Conversion and Management*, **2016**, 119, 399-410	10.6	41
13	Tangential inlet cyclone separators with low solid loading. *Engineering Computations*, **2016**, 33, 2090-2116	1.64	4
12	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	10.6	40
11	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	0
10	Towards the Development of the In-Cylinder Pressure Measurement Based on the Strain Gauge Technique for Internal Combustion Engines **2015**,		11
9	Measured and Predicted Soot Particle Emissions from Natural Gas Engines **2015**,		16
8	Experimental and numerical analysis of cavitation in hydraulic proportional directional valves. *Energy Conversion and Management*, **2014**, 87, 208-219	10.6	66
7	High Temperature Gas-to-Gas Heat Exchanger Based on a Solid Intermediate Medium. *Advances in Mechanical Engineering*, **2014**, 6, 353586	1.2	9
6	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	34
5	Fluid-dynamic design optimization of hydraulic proportional directional valves. *Engineering Optimization*, **2014**, 46, 1295-1314	2	50
4	Thrust Control of Small Turbojet Engines Using Fuzzy Logic: Design and Experimental Validation **2012**,		2
3	Thrust Control of Small Turbojet Engines Using Fuzzy Logic: Design and Experimental Validation. *Journal of Engineering for Gas Turbines and Power*, **2012**, 134,	1.7	10
2	An Adaptive Fuzzy Logic Algorithm for the Thrust Control of a Small Turbojet Engine **2010**,		1