Roberto Capata

List of Publications by Year
in descending order

42	501	933447 10	713466 21
papers	citations	h-index	g-index

43	43	43	440
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Performance Electric/Hybrid Vehicleâ€"Environmental, Economic and Technical Assessments of Electrical Accumulators for Sustainable Mobility. Energies, 2022, 15, 2134.	3.1	4
2	High Performance Hybrid Vehicle Conceptâ€"Preliminary Study and Vehicle Packaging. Energies, 2022, 15, 4025.	3.1	1
3	Preliminary Analysis of a New Power Train Concept for a City Hybrid Vehicle. Designs, 2021, 5, 19.	2.4	3
4	Condenser Design for On-Board ORC Recovery System. Applied Sciences (Switzerland), 2021, 11, 6356.	2.5	2
5	Study, Development and Prototyping of a Novel Mild Hybrid Power Train for a City Car: Design of the Turbocharger. Applied Sciences (Switzerland), 2021, 11, 234.	2.5	9
6	Experimental Fitting of Redesign Electrified Turbocompressor of a Novel Mild Hybrid Power Train for a City Car. Energies, 2021, 14, 6516.	3.1	3
7	A novel turbo-assisted mild-hybrid configuration for a city car: compressor electric drive characterization. , 2021, , .		0
8	Designing, Prototyping, Assembling and Costs Analysis of a Gas Turbine Hybrid Vehicle. Energies, 2020, 13, 4611.	3.1	2
9	Expander design procedures and selection criterion for small rated organic rankine cycle systems. Energy Science and Engineering, 2020, 8, 3380-3414.	4.0	5
10	New Power Train Concept for a City Hybrid Vehicle. Proceedings (mdpi), 2020, 58, 6.	0.2	2
11	Experimental investigation on the Reynolds dependence of the performance of branched heat exchangers working with organic fluids. International Journal of Heat and Mass Transfer, 2019, 140, 129-138.	4.8	5
12	Optimal Configuration Selection Through Experimental Tests on Branched Heat Exchanger With R134 Organic Fluid. , 2019, , .		0
13	Urban and Extra-Urban Hybrid Vehicles: A Technological Review. Energies, 2018, 11, 2924.	3.1	38
14	Experimental Campaign Tests on Ultra Micro Gas Turbines, Fuel Supply Comparison and Optimization. Energies, 2018, 11, 799.	3.1	20
15	Design and Optimization of Fuel Injection of a 50 kW Micro Turbogas. Designs, 2018, 2, 14.	2.4	4
16	Preliminary Design, Modeling, Production, and First Evaluation Tests of a Tiâ€"Al Gas Turbine Blade. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	1.4	1
17	Expander selection for an on board ORC energy recovery system. Energy, 2017, 141, 1084-1096.	8.8	50
18	Experimental evaluation of three different configurations of constructal disc-shaped heat exchangers. International Journal of Heat and Mass Transfer, 2017, 115, 92-101.	4.8	10

#	Article	IF	Citations
19	A Comparison Between a Microturbine and a Scroll-Type Expander for a Small Scale ORC Energy Recovery System for Vehicular Application. , 2017, , .		0
20	An artificial neural network-based diagnostic methodology for gas turbine path analysisâ€"part II: case study. Energy, Ecology and Environment, 2016, 1, 351-359.	3.9	3
21	An artificial neural network-based diagnostic methodology for gas turbine path analysisâ€"part I: introduction. Energy, Ecology and Environment, 2016, 1, 343-350.	3.9	7
22	Experimental Tests on a Pre-Heated Combustion Chamber for Ultra Micro Gas Turbine Device: Air/Fuel Ratio Evaluation. Engineering, 2016, 08, 789-805.	0.8	4
23	Design, Prototyping and Preliminary Testing of a Ti-Al Gas Turbine Blade. , 2015, , .		1
24	Experimental Fitting of the Re-Scaled Balje Maps for Low-Reynolds Radial Turbomachinery. Energies, 2015, 8, 7986-8000.	3.1	15
25	Development of Micro-Grippers for Tissue and Cell Manipulation with Direct Morphological Comparison. Micromachines, 2015, 6, 1710-1728.	2.9	61
26	Experimental Tests of the Operating Conditions of a Micro Gas Turbine Device. Journal of Energy and Power Engineering, 2015, 9, .	0.2	9
27	Preliminary Design and Simulation of a Turbo Expander for Small Rated Power Organic Rankine Cycle (ORC). Energies, 2014, 7, 7067-7093.	3.1	28
28	Preliminary Design of Compact Condenser in an Organic Rankine Cycle System for the Low Grade Waste Heat Recovery. Energies, 2014, 7, 8008-8035.	3.1	14
29	Feasibility analysis of a small-scale ORC energy recovery system for vehicular application. Energy Conversion and Management, 2014, 86, 1078-1090.	9.2	40
30	A Real Time Energy Management Strategy for Plug-in Hybrid Electric Vehicles based on Optimal Control Theory. Energy Procedia, 2014, 45, 949-958.	1.8	87
31	Proposal Design Procedure and Preliminary Simulation of Turbo Expander for Small Size (2â€"10 kW) Organic Rankine Cycle (ORC). , 2014, , .		0
32	Hybrid Power Pack: Hybrid Powertrain for City Cars. Journal of Transportation Technologies, 2014, 04, 315-326.	0.5	3
33	The LETHEÂ© (Low Emissions Turbo-Hybrid Engine) city car of the University of Roma 1: Final proposed configuration. Energy, 2013, 58, 178-184.	8.8	6
34	A Small-Scale ORC Energy Recovery System for Vehicular Application: Feasibility Analysis and Preliminary Components Design. , 2013, , .		1
35	Testing of the Ultra-Micro Gas Turbine Devices (1 - 10 kW) for Portable Power Generation at University of Roma 1: First Tests Results. Engineering, 2013, 05, 481-489.	0.8	9
36	The Gas Turbine Hybrid Vehicle LETHEâ„¢ at UDR1: The On-Board Innovative ORC Energy Recovery System â€" Feasibility Analysis. , 2012, , .		8

#	Article	IF	Citations
37	Use of Modified Balje Maps in the Design of Low Reynolds Number Turbocompressors. , 2012, , .		4
38	A Proposal for CO2 Abatement in Urban Areas: The UDR1â€“LetheÂ© Turbo-Hybrid Vehicle. Energies, 2011, 4, 368-388.	3.1	7
39	Procedure for the Design of a Hybrid-Series Vehicle and the Hybridization Degree Choice. Energies, 2010, 3, 450-461.	3.1	19
40	Preliminary Design of a Hybrid Propulsion System for High-Endurance UAV. , 2010, , .		2
41	The concept of the gas turbine-based hybrid vehicle: system, design and configuration issues. International Journal of Energy Research, 2006, 30, 671-684.	4.5	8
42	A Gas Turbine-Based Hybrid Vehicleâ€”Part II: Technological and Configuration Issues. Journal of Engineering for Gas Turbines and Power, 2003, 125, 777-782.	1.1	6