

Roberto Capata

List of Publications by Year in descending order

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42
papers

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Real Time Energy Management Strategy for Plug-in Hybrid Electric Vehicles based on Optimal Control Theory. <i>Energy Procedia</i> , 2014, 45, 949-958. | 1.8 | 87 |
| 2 | Development of Micro-Grippers for Tissue and Cell Manipulation with Direct Morphological Comparison. <i>Micromachines</i> , 2015, 6, 1710-1728. | 2.9 | 61 |
| 3 | Expander selection for an on board ORC energy recovery system. <i>Energy</i> , 2017, 141, 1084-1096. | 8.8 | 50 |
| 4 | Feasibility analysis of a small-scale ORC energy recovery system for vehicular application. <i>Energy Conversion and Management</i> , 2014, 86, 1078-1090. | 9.2 | 40 |
| 5 | Urban and Extra-Urban Hybrid Vehicles: A Technological Review. <i>Energies</i> , 2018, 11, 2924. | 3.1 | 38 |
| 6 | Preliminary Design and Simulation of a Turbo Expander for Small Rated Power Organic Rankine Cycle (ORC). <i>Energies</i> , 2014, 7, 7067-7093. | 3.1 | 28 |
| 7 | Experimental Campaign Tests on Ultra Micro Gas Turbines, Fuel Supply Comparison and Optimization. <i>Energies</i> , 2018, 11, 799. | 3.1 | 20 |
| 8 | Procedure for the Design of a Hybrid-Series Vehicle and the Hybridization Degree Choice. <i>Energies</i> , 2010, 3, 450-461. | 3.1 | 19 |
| 9 | Experimental Fitting of the Re-Scaled Balje Maps for Low-Reynolds Radial Turbomachinery. <i>Energies</i> , 2015, 8, 7986-8000. | 3.1 | 15 |
| 10 | Preliminary Design of Compact Condenser in an Organic Rankine Cycle System for the Low Grade Waste Heat Recovery. <i>Energies</i> , 2014, 7, 8008-8035. | 3.1 | 14 |
| 11 | Experimental evaluation of three different configurations of constructal disc-shaped heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 92-101. | 4.8 | 10 |
| 12 | Experimental Tests of the Operating Conditions of a Micro Gas Turbine Device. <i>Journal of Energy and Power Engineering</i> , 2015, 9, . | 0.2 | 9 |
| 13 | Study, Development and Prototyping of a Novel Mild Hybrid Power Train for a City Car: Design of the Turbocharger. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 234. | 2.5 | 9 |
| 14 | Testing of the Ultra-Micro Gas Turbine Devices (1 - 10 kW) for Portable Power Generation at University of Roma 1: First Tests Results. <i>Engineering</i> , 2013, 05, 481-489. | 0.8 | 9 |
| 15 | The concept of the gas turbine-based hybrid vehicle: system, design and configuration issues. <i>International Journal of Energy Research</i> , 2006, 30, 671-684. | 4.5 | 8 |
| 16 | The Gas Turbine Hybrid Vehicle LETHEâ„¢ at UDR1: The On-Board Innovative ORC Energy Recovery System â€” Feasibility Analysis. , 2012, , . | | 8 |
| 17 | A Proposal for CO2 Abatement in Urban Areas: The UDR1â„¢Letheâ„¢ Turbo-Hybrid Vehicle. <i>Energies</i> , 2011, 4, 368-388. | 3.1 | 7 |
| 18 | An artificial neural network-based diagnostic methodology for gas turbine path analysisâ€”part I: introduction. <i>Energy, Ecology and Environment</i> , 2016, 1, 343-350. | 3.9 | 7 |

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|----|--|-----|-----------|
| 19 | A Gas Turbine-Based Hybrid Vehicle"Part II: Technological and Configuration Issues. Journal of Engineering for Gas Turbines and Power, 2003, 125, 777-782. | 1.1 | 6 |
| 20 | The LETHE" (Low Emissions Turbo-Hybrid Engine) city car of the University of Roma 1: Final proposed configuration. Energy, 2013, 58, 178-184. | 8.8 | 6 |
| 21 | 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 |
| 22 | Expander design procedures and selection criterion for small rated organic rankine cycle systems. Energy Science and Engineering, 2020, 8, 3380-3414. | 4.0 | 5 |
| 23 | Use of Modified Balje Maps in the Design of Low Reynolds Number Turbocompressors. , 2012, , . | | 4 |
| 24 | Design and Optimization of Fuel Injection of a 50 kW Micro Turbogas. Designs, 2018, 2, 14. | 2.4 | 4 |
| 25 | 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 |
| 26 | High-Performance Electric/Hybrid Vehicle"Environmental, Economic and Technical Assessments of Electrical Accumulators for Sustainable Mobility. Energies, 2022, 15, 2134. | 3.1 | 4 |
| 27 | An artificial neural network-based diagnostic methodology for gas turbine path analysis"part II: case study. Energy, Ecology and Environment, 2016, 1, 351-359. | 3.9 | 3 |
| 28 | Preliminary Analysis of a New Power Train Concept for a City Hybrid Vehicle. Designs, 2021, 5, 19. | 2.4 | 3 |
| 29 | Hybrid Power Pack: Hybrid Powertrain for City Cars. Journal of Transportation Technologies, 2014, 04, 315-326. | 0.5 | 3 |
| 30 | Experimental Fitting of Redesign Electrified Turbocompressor of a Novel Mild Hybrid Power Train for a City Car. Energies, 2021, 14, 6516. | 3.1 | 3 |
| 31 | Preliminary Design of a Hybrid Propulsion System for High-Endurance UAV. , 2010, , . | | 2 |
| 32 | Designing, Prototyping, Assembling and Costs Analysis of a Gas Turbine Hybrid Vehicle. Energies, 2020, 13, 4611. | 3.1 | 2 |
| 33 | Condenser Design for On-Board ORC Recovery System. Applied Sciences (Switzerland), 2021, 11, 6356. | 2.5 | 2 |
| 34 | New Power Train Concept for a City Hybrid Vehicle. Proceedings (mdpi), 2020, 58, 6. | 0.2 | 2 |
| 35 | A Small-Scale ORC Energy Recovery System for Vehicular Application: Feasibility Analysis and Preliminary Components Design. , 2013, , . | | 1 |
| 36 | Design, Prototyping and Preliminary Testing of a Ti-Al Gas Turbine Blade. , 2015, , . | | 1 |

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|----|--|-----|-----------|
| 37 | Preliminary Design, Modeling, Production, and First Evaluation Tests of a Ti-Al Gas Turbine Blade. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, . | 1.4 | 1 |
| 38 | High Performance Hybrid Vehicle Concept—Preliminary Study and Vehicle Packaging. Energies, 2022, 15, 4025. | 3.1 | 1 |
| 39 | Proposal Design Procedure and Preliminary Simulation of Turbo Expander for Small Size (2–10 kW) Organic Rankine Cycle (ORC). , 2014, , . | | 0 |
| 40 | A Comparison Between a Microturbine and a Scroll-Type Expander for a Small Scale ORC Energy Recovery System for Vehicular Application. , 2017, , . | | 0 |
| 41 | Optimal Configuration Selection Through Experimental Tests on Branched Heat Exchanger With R134 Organic Fluid. , 2019, , . | | 0 |
| 42 | A novel turbo-assisted mild-hybrid configuration for a city car: compressor electric drive characterization. , 2021, , . | | 0 |