

Lorenzo Ferrari

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.

58

papers

1,863

citations

22

h-index

42

g-index

67

ext. papers

2,240

ext. citations

6.2

avg, IF

5.24

L-index

#	Paper	IF	Citations
58	Hyperbolic metamaterials and their applications. <i>Progress in Quantum Electronics</i> , 2015 , 40, 1-40	9.1	400
57	Critical issues in the CFD simulation of Darrieus wind turbines. <i>Renewable Energy</i> , 2016 , 85, 419-435	8.1	205
56	Feasibility analysis of a Darrieus vertical-axis wind turbine installation in the rooftop of a building. <i>Applied Energy</i> , 2012 , 97, 921-929	10.7	177
55	Darrieus wind turbine blade unsteady aerodynamics: a three-dimensional Navier-Stokes CFD assessment. <i>Energy</i> , 2017 , 128, 550-563	7.9	70
54	Design guidelines for H-Darrieus wind turbines: Optimization of the annual energy yield. <i>Energy Conversion and Management</i> , 2015 , 89, 690-707	10.6	66
53	Dimensionless numbers for the assessment of mesh and timestep requirements in CFD simulations of Darrieus wind turbines. <i>Energy</i> , 2016 , 97, 246-261	7.9	64
52	Enhanced spontaneous emission inside hyperbolic metamaterials. <i>Optics Express</i> , 2014 , 22, 4301-6	3.3	60
51	Microeolic turbines in the built environment: Influence of the installation site on the potential energy yield. <i>Renewable Energy</i> , 2012 , 45, 163-174	8.1	54
50	Virtual incidence effect on rotating airfoils in Darrieus wind turbines. <i>Energy Conversion and Management</i> , 2016 , 111, 329-338	10.6	52
49	Experimental Demonstration of Localized Plasmonic Structured Illumination Microscopy. <i>ACS Nano</i> , 2017 , 11, 5344-5350	16.7	51
48	Experimental analysis of R744 parallel compression cycle. <i>Applied Energy</i> , 2014 , 135, 274-285	10.7	44
47	Multi-criteria investigation of a pumped thermal electricity storage (PTES) system with thermal integration and sensible heat storage. <i>Energy Conversion and Management</i> , 2020 , 208, 112530	10.6	34
46	Influence of the heat storage size on the plant performance in a Smart User case study. <i>Applied Energy</i> , 2013 , 112, 1454-1465	10.7	33
45	Hyperbolic metamaterials for dispersion-assisted directional light emission. <i>Nanoscale</i> , 2017 , 9, 9034-9048	7.7	32
44	An Improved Model for the Performance Estimation of an H-Darrieus Wind Turbine in Skewed Flow. <i>Wind Engineering</i> , 2012 , 36, 667-686	1.2	32
43	Analysis of suitability ranges of high temperature heat pump working fluids. <i>Applied Thermal Engineering</i> , 2019 , 150, 628-640	5.8	32
42	Blade Design Criteria to Compensate the Flow Curvature Effects in H-Darrieus Wind Turbines. <i>Journal of Turbomachinery</i> , 2015 , 137,	1.8	28

41	Optical Observation of Plasmonic Nonlocal Effects in a 2D Superlattice of Ultrasmall Gold Nanoparticles. <i>Nano Letters</i> , 2017 , 17, 2234-2239	11.5	26
40	Biogas from Anaerobic Digestion: Power Generation or Biomethane Production?. <i>Energies</i> , 2020 , 13, 743	3.1	26
39	Energy recovery by means of a radial piston expander in a CO2 refrigeration system. <i>International Journal of Refrigeration</i> , 2016 , 72, 147-155	3.8	25
38	Suitability of coupling a solar powered ejection cycle with a vapour compression refrigerating machine. <i>Applied Energy</i> , 2012 , 97, 374-383	10.7	22
37	A Model to Account for the Virtual Camber Effect in the Performance Prediction of an H-Darrieus VAWT Using the Momentum Models. <i>Wind Engineering</i> , 2011 , 35, 465-482	1.2	22
36	Analysis of a solar assisted vapour compression cooling system. <i>Renewable Energy</i> , 2013 , 49, 48-52	8.1	21
35	Start-Up Behavior of a Three-Bladed H-Darrieus VAWT: Experimental and Numerical Analysis 2011 ,		20
34	Rankine Carnot Batteries with the Integration of Thermal Energy Sources: A Review. <i>Energies</i> , 2020 , 13, 4766	3.1	20
33	Analysis of the Rotordynamic Response of a Centrifugal Compressor Subject to Aerodynamic Loads Due to Rotating Stall. <i>Journal of Turbomachinery</i> , 2015 , 137,	1.8	18
32	Feasibility Analysis of Bio-Methane Production in a Biogas Plant: A Case Study. <i>Energies</i> , 2019 , 12, 473	3.1	17
31	Development of an optimization algorithm for the energy management of an industrial Smart User. <i>Applied Energy</i> , 2017 , 208, 1468-1486	10.7	16
30	Potential energy recovery by integrating an ORC in a biogas plant. <i>Applied Energy</i> , 2019 , 256, 113960	10.7	16
29	A reciprocating compressor hybrid model with acoustic FEM characterization. <i>International Journal of Refrigeration</i> , 2016 , 63, 171-183	3.8	15
28	Experimental Demonstration of Hyperbolic Metamaterial Assisted Illumination Nanoscopy. <i>ACS Nano</i> , 2018 , 12, 11316-11322	16.7	14
27	Design and Analysis of Blue InGaN/GaN Plasmonic LED for High-Speed, High-Efficiency Optical Communications. <i>ACS Photonics</i> , 2018 , 5, 3557-3564	6.3	13
26	A Systematic Approach to Estimate the Impact of the Aerodynamic Force Induced by Rotating Stall in a Vaneless Diffuser on the Rotordynamic Behavior of Centrifugal Compressors. <i>Journal of Engineering for Gas Turbines and Power</i> , 2013 , 135,	1.7	13
25	Radial piston expander as a throttling valve in a heat pump: Focus on the 2-phase expansion. <i>International Journal of Refrigeration</i> , 2017 , 82, 273-282	3.8	10
24	Structural Analysis of a Small H-Darrieus Wind Turbine Using Beam Models: Development and Assessment. <i>Journal of Turbomachinery</i> , 2015 , 137, 011003	1.8	10

23	Energy-Yield-Based Optimization of an H-Darrieus Wind Turbine 2012 ,		10
22	Steam expander as a throttling valve replacement in industrial plants: A techno-economic feasibility analysis. <i>Applied Energy</i> , 2019 , 238, 11-21	10.7	10
21	Small Wind Turbines in the Built Environment: Influence of Flow Inclination on the Potential Energy Yield. <i>Journal of Turbomachinery</i> , 2014 , 136,	1.8	9
20	Setup and characterisation of a multi-purpose test rig for R744 refrigerating cycles and equipment. <i>International Journal of Refrigeration</i> , 2012 , 35, 1848-1859	3.8	9
19	Acoustic Characterization of Automotive Mufflers - Part I: Test Rig Design and Evaluation of Acoustic Properties 2012 ,		8
18	Investigation on the feasibility of integration of high temperature solar energy in a textile factory. <i>Renewable Energy</i> , 2011 , 36, 3517-3529	8.1	8
17	Energy and economic savings through a plant supervised management in large-scale commercial activities. <i>Applied Thermal Engineering</i> , 2018 , 141, 269-279	5.8	6
16	Some Guidelines for the Experimental Characterization of Vaneless Diffuser Rotating Stall in Stages of Industrial Centrifugal Compressors 2014 ,		6
15	Use of Pressure-Retarded-Osmosis to reduce Reverse Osmosis energy consumption by exploiting hypersaline flows. <i>Energy</i> , 2020 , 211, 118969	7.9	6
14	Experimental Characterization of a Remoting System for Dynamic Pressure Sensors 2005 , 715		5
13	Small-Scale Desalination Plant Driven by Solar Energy for Isolated Communities. <i>Energies</i> , 2020 , 13, 3864	3.1	5
12	Optimization of Nanopatterned Multilayer Hyperbolic Metamaterials for Spontaneous Light Emission Enhancement. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800263	1.6	5
11	The pulse coupled phasor measurement units 2014 ,		3
10	Acoustic Characterization of Automotive Mufflers - Part II: Validation of the Numerical Models by Means of Experimental Data 2012 ,		3
9	Development and characterization of a compact rig to test expanders for superheated and saturated organic fluids. <i>Energy Conversion and Management</i> , 2019 , 188, 262-275	10.6	2
8	An Experimental Methodology for the Reconstruction of Three-Dimensional Acoustic Pressure Fields in Ducts. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014 , 136,	1.7	2
7	Pyrometric Estimation of Exhaust Valve Temperature of an Internal Combustion Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014 , 136,	1.7	2
6	A Methodology for Engine Performance Optimization 2011 ,		2

5	ORC Optimal Design through Clusterization for Waste Heat Recovery in Anaerobic Digestion Plants. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2762	2.6	2
4	Effects Due to the Temperature Measurement Section on the Performance Estimation of a Centrifugal Compressor Stage. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012 , 134,	1.7	1
3	Influence of the piston displacement profile on the performance of a refrigerating cycle equipped with an axial piston compressor. <i>International Journal of Refrigeration</i> , 2017 , 82, 302-311	3.8	
2	A New-Conception, Electromagnetically Controlled, Diaphragmless Shock Tube 2003 , 377		
1	Absorption Chillers to Improve the Performance of Small-Scale Biomethane Liquefaction Plants. <i>Energies</i> , 2022 , 15, 92	3.1	