

Lisa Branchini

List of Publications by Year in descending order

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76
papers

1,322
citations

361045

20
h-index

377514

34
g-index

77
all docs

77
docs citations

77
times ranked

1519
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized design and simulation of a hybrid storage system based on hydrogen as an energy carrier. E3S Web of Conferences, 2022, 334, 03002.	0.2	0
2	Performance and total warming impact assessment of pure fluids and mixtures replacing HFCs in micro-ORC energy systems. Applied Thermal Engineering, 2022, 203, 117888.	3.0	10
3	Parametric Thermo-Economic Analysis of a Power-to-Gas Energy System with Renewable Input, High Temperature Co-Electrolysis and Methanation. Energies, 2022, 15, 1791.	1.6	2
4	Solar driven micro-ORC system assessment for residential application. Renewable Energy, 2022, 195, 167-181.	4.3	27
5	A CCHP system based on ORC cogenerator and adsorption chiller experimental prototypes: Energy and economic analysis for NZEB applications. Applied Thermal Engineering, 2021, 183, 116119.	3.0	30
6	Performance modelling and greenhouse impact assessment of a micro-ORC energy system working with HFCs, low GWP fluids and mixtures. E3S Web of Conferences, 2021, 238, 10002.	0.2	3
7	Cogeneration Supporting the Energy Transition in the Italian Ceramic Tile Industry. Sustainability, 2021, 13, 4006.	1.6	10
8	Influence of the Prosumer Allocation and Heat Production on a District Heating Network. Frontiers in Mechanical Engineering, 2021, 7, .	0.8	2
9	Systematic Comparison of ORC and s-CO ₂ Combined Heat and Power Plants for Energy Harvesting in Industrial Gas Turbines. Energies, 2021, 14, 3402.	1.6	13
10	A Comparison Between Organic Rankine Cycle and Supercritical CO ₂ Bottoming Cycles for Energy Recovery From Industrial Gas Turbines Exhaust Gas. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	2
11	Complex energy networks: energy-ecological efficiency based evaluations towards the sustainability in energy sector. E3S Web of Conferences, 2021, 238, 05004.	0.2	0
12	Replacement of R134a with low-GWP fluids in a kW-size reciprocating piston expander: Performance prediction and design optimization. Energy, 2020, 206, 118174.	4.5	7
13	Overall Performance Evaluation of Small Scale LNG Production Processes. Applied Sciences (Switzerland), 2020, 10, 785.	1.3	6
14	Optimum Organic Rankine Cycle Design for the Application in a CHP Unit Feeding a District Heating Network. Energies, 2020, 13, 1314.	1.6	4
15	Numerical prediction of off-design performance for a Power-to-Gas system coupled with renewables. Energy Conversion and Management, 2020, 210, 112702.	4.4	25
16	Performance prediction of a reciprocating piston expander with semi-empirical models. Energy Procedia, 2019, 158, 1737-1743.	1.8	5
17	Combined Heat and Power Generation Systems Design for Residential Houses. Energy Procedia, 2019, 158, 2768-2773.	1.8	6
18	Feasibility of ORC application in natural gas compressor stations. Energy, 2019, 173, 1-15.	4.5	22

#	ARTICLE	IF	CITATIONS
19	Application and comparison of semi-empirical models for performance prediction of a kW-size reciprocating piston expander. Applied Energy, 2019, 249, 143-156.	5.1	18
20	Thermal integration of a high-temperature co-electrolyzer and experimental methanator for Power-to-Gas energy storage system. Energy Conversion and Management, 2019, 186, 140-155.	4.4	47
21	Application of different modeling approaches to a district heating network. AIP Conference Proceedings, 2019, , .	0.3	10
22	A dynamic model of a solar driven trigeneration system based on micro-ORC and adsorption chiller prototypes. AIP Conference Proceedings, 2019, , .	0.3	3
23	Complex energy networks optimization for renewables exploitation and efficiency increase. AIP Conference Proceedings, 2019, , .	0.3	3
24	Smart district heating: Cogeneration and solar systems integration to convert an existing utility substation. AIP Conference Proceedings, 2019, , .	0.3	0
25	Experimental analysis of a micro-ORC driven by piston expander for low-grade heat recovery. Applied Thermal Engineering, 2019, 148, 1278-1291.	3.0	58
26	Off-Design Performance Evaluation of a LNG Production Plant Coupled With Renewables. , 2019, , .		1
27	On-site LNG production at filling stations. Applied Thermal Engineering, 2018, 137, 142-153.	3.0	3
28	Efficiency improvement on a cruise ship: Load allocation optimization. Energy Conversion and Management, 2018, 164, 42-58.	4.4	61
29	Investigation on small-scale low pressure LNG production process. Applied Energy, 2018, 227, 672-685.	5.1	12
30	Performance and operation of micro-ORC energy system using geothermal heat source. Energy Procedia, 2018, 148, 384-391.	1.8	26
31	Thermal integration of a SOFC power generator and a Na ⁺ NiCl ₂ battery for CHP domestic application. Applied Energy, 2017, 185, 1256-1267.	5.1	41
32	Experimental Investigation on a Solar/Hydrogen-Based Microgrid. Energy Procedia, 2017, 105, 343-349.	1.8	4
33	Performance Increase of a Small-scale Liquefied Natural Gas Production Process by Means of Turbo-expander. Energy Procedia, 2017, 105, 4859-4865.	1.8	35
34	Experimental Investigation with Steady-State Detection in a Micro-ORC Test Bench. Energy Procedia, 2017, 126, 469-476.	1.8	6
35	Experimental Performance of a Micro-ORC Energy System for Low Grade Heat Recovery. Energy Procedia, 2017, 129, 899-906.	1.8	21
36	Techno-Economic Analysis of ORC in Gas Compression Stations Taking Into Account Actual Operating Conditions. Energy Procedia, 2017, 129, 543-550.	1.8	8

#	ARTICLE	IF	CITATIONS
37	Renewable Energy Systems Integration for Efficiency Improvement of a CHP Unit. , 2017, , .		1
38	Energy Recovery in Natural Gas Compressor Stations Taking Advantage of Organic Rankine Cycle: Preliminary Design Analysis. , 2017, , .		1
39	From solar to hydrogen: Preliminary experimental investigation on a small scale facility. International Journal of Hydrogen Energy, 2017, 42, 20979-20993.	3.8	16
40	Preliminary Investigation on a Rotary Magnetocaloric Refrigerator Prototype. Energy Procedia, 2017, 142, 1288-1293.	1.8	8
41	Simplified Model for PV Panels Performance Prediction. Energy Procedia, 2017, 142, 198-203.	1.8	1
42	Thermo-Economic Analysis of a Photovoltaic-Fuel Cell Hybrid System With Energy Storage for CHP Production in Household Sector. , 2016, , .		0
43	Renewable Energy Storage System Based on a Power-to-Gas Conversion Process. Energy Procedia, 2016, 101, 854-861.	1.8	26
44	A Micro-ORC Energy System: Preliminary Performance and Test Bench Development. Energy Procedia, 2016, 101, 814-821.	1.8	13
45	Environmental Assessment of Renewable Fuel Energy Systems with Cross-Media Effects Approach. Energy Procedia, 2015, 81, 655-664.	1.8	5
46	Thermodynamic Evaluation of Repowering Options for a Small-size Combined Cycle with Concentrating Solar Power Technology. Energy Procedia, 2015, 82, 584-590.	1.8	4
47	Utilities Substations in Smart District Heating Networks. Energy Procedia, 2015, 81, 597-605.	1.8	18
48	Waste-to-Energy. , 2015, , .		9
49	Pump Hydro Storage and Gas Turbines Technologies Combined to Handle Wind Variability: Optimal Hydro Solution for an Italian Case Study. Energy Procedia, 2015, 82, 570-576.	1.8	2
50	Organic Rankine Cycle System for Effective Energy Recovery in Offshore Applications: A Parametric Investigation With Different Power Rating Gas Turbines. , 2015, , .		3
51	Waste-to-Energy. , 2015, , 19-36.		3
52	Repowering existing under-utilized WTE power plant with gas turbines. Applied Energy, 2015, 160, 902-911.	5.1	23
53	Smart District Heating: Distributed Generation Systemsâ€™ Effects on the Network. Energy Procedia, 2015, 75, 1208-1213.	1.8	33
54	Pumped hydro storage plants with improved operational flexibility using constant speed Francis runners. Applied Energy, 2015, 137, 629-637.	5.1	51

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55	Performance Indexes and Output Allocation for Multi-fuel Energy Systems. , 2015, , 113-126.		0
56	Specific Application Cases with GT Commercial Units. , 2015, , 127-139.		0
57	Storage Solutions for Renewable Production in Household Sector. Energy Procedia, 2014, 61, 242-245.	1.8	7
58	Repowering Existing Under-utilized WTE Power Plant with Gas Turbine. Energy Procedia, 2014, 61, 238-241.	1.8	2
59	Thermo-Economic Evaluation of ORC System in Off-Shore Applications. , 2014, , .		3
60	Application of environmental performance assessment of CHP systems with local and global approaches. Applied Energy, 2014, 130, 774-782.	5.1	42
61	Managing Wind Variability with Pumped Hydro Storage and Gas Turbines. Energy Procedia, 2014, 45, 22-31.	1.8	9
62	Performance Indexes and Output Allocation for Multi-fuel Energy Systems. Energy Procedia, 2014, 45, 32-41.	1.8	5
63	Combining waste-to-energy steam cycle with gas turbine units. Applied Energy, 2014, 130, 764-773.	5.1	28
64	Advanced Waste-to-energy Steam Cycles. Energy Procedia, 2014, 45, 1205-1214.	1.8	17
65	Preliminary Investigations on a Test Bench for Integrated Micro-CHP Energy Systems. Energy Procedia, 2014, 45, 1275-1284.	1.8	7
66	Optimal sizing of grid-independent hybrid photovoltaicâ€“battery power systems for household sector. Applied Energy, 2014, 136, 805-816.	5.1	64
67	District Heating Network Design and Analysis. Energy Procedia, 2014, 45, 1225-1234.	1.8	45
68	Investigations on a Test Bench for Integrated ORC-FC Micro-CHP Energy Systems. , 2014, , .		1
69	Wind-Hydro-Gas Turbine Unit Commitment to Guarantee Firm Dispatchable Power. , 2014, , .		4
70	ORC waste heat recovery in European energy intensive industries: Energy and GHG savings. Energy Conversion and Management, 2013, 76, 244-252.	4.4	187
71	Systematic comparison of ORC configurations by means of a comprehensive performance indexes. Applied Thermal Engineering, 2013, 61, 129-140.	3.0	134
72	Available and Future Gas Turbine Power Augmentation Technologies: Techno-Economic Analysis in Selected Climatic Conditions. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	0.5	2

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73	Computing Gas Turbine Fuel Consumption to Firm Up Wind Power. , 2012, , .		4
74	Available and Future Gas Turbine Power Augmentation Technologies: Techno-Economic Analysis in Selected Climatic Conditions. , 2012, , .		0
75	Handling Wind Variability Using Gas Turbines. , 2012, , .		7
76	Gas Turbine Power Augmentation Technologies: A Systematic Comparative Evaluation Approach. , 2010, , .		6