

# Lisa Branchini

## List of Publications by Year in descending order

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Version: 2024-02-01

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	ORC waste heat recovery in European energy intensive industries: Energy and GHG savings. Energy Conversion and Management, 2013, 76, 244-252.	4.4	187
2	Systematic comparison of ORC configurations by means of comprehensive performance indexes. Applied Thermal Engineering, 2013, 61, 129-140.	3.0	134
3	Optimal sizing of grid-independent hybrid photovoltaic battery power systems for household sector. Applied Energy, 2014, 136, 805-816.	5.1	64
4	Efficiency improvement on a cruise ship: Load allocation optimization. Energy Conversion and Management, 2018, 164, 42-58.	4.4	61
5	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
6	Pumped hydro storage plants with improved operational flexibility using constant speed Francis runners. Applied Energy, 2015, 137, 629-637.	5.1	51
7	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
8	District Heating Network Design and Analysis. Energy Procedia, 2014, 45, 1225-1234.	1.8	45
9	Application of environmental performance assessment of CHP systems with local and global approaches. Applied Energy, 2014, 130, 774-782.	5.1	42
10	Thermal integration of a SOFC power generator and a Na-NiCl <sub>2</sub> battery for CHP domestic application. Applied Energy, 2017, 185, 1256-1267.	5.1	41
11	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
12	Smart District Heating: Distributed Generation Systems™ Effects on the Network. Energy Procedia, 2015, 75, 1208-1213.	1.8	33
13	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
14	Combining waste-to-energy steam cycle with gas turbine units. Applied Energy, 2014, 130, 764-773.	5.1	28
15	Solar driven micro-ORC system assessment for residential application. Renewable Energy, 2022, 195, 167-181.	4.3	27
16	Renewable Energy Storage System Based on a Power-to-Gas Conversion Process. Energy Procedia, 2016, 101, 854-861.	1.8	26
17	Performance and operation of micro-ORC energy system using geothermal heat source. Energy Procedia, 2018, 148, 384-391.	1.8	26
18	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

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19	Repowering existing under-utilized WTE power plant with gas turbines. Applied Energy, 2015, 160, 902-911.	5.1	23
20	Feasibility of ORC application in natural gas compressor stations. Energy, 2019, 173, 1-15.	4.5	22
21	Experimental Performance of a Micro-ORC Energy System for Low Grade Heat Recovery. Energy Procedia, 2017, 129, 899-906.	1.8	21
22	Utilities Substations in Smart District Heating Networks. Energy Procedia, 2015, 81, 597-605.	1.8	18
23	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
24	Advanced Waste-to-energy Steam Cycles. Energy Procedia, 2014, 45, 1205-1214.	1.8	17
25	From solar to hydrogen: Preliminary experimental investigation on a small scale facility. International Journal of Hydrogen Energy, 2017, 42, 20979-20993.	3.8	16
26	A Micro-ORC Energy System: Preliminary Performance and Test Bench Development. Energy Procedia, 2016, 101, 814-821.	1.8	13
27	Systematic Comparison of ORC and s-CO <sub>2</sub> Combined Heat and Power Plants for Energy Harvesting in Industrial Gas Turbines. Energies, 2021, 14, 3402.	1.6	13
28	Investigation on small-scale low pressure LNG production process. Applied Energy, 2018, 227, 672-685.	5.1	12
29	Application of different modeling approaches to a district heating network. AIP Conference Proceedings, 2019, , .	0.3	10
30	Cogeneration Supporting the Energy Transition in the Italian Ceramic Tile Industry. Sustainability, 2021, 13, 4006.	1.6	10
31	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
32	Managing Wind Variability with Pumped Hydro Storage and Gas Turbines. Energy Procedia, 2014, 45, 22-31.	1.8	9
33	Waste-to-Energy. , 2015, , .		9
34	Techno-Economic Analysis of ORC in Gas Compression Stations Taking Into Account Actual Operating Conditions. Energy Procedia, 2017, 129, 543-550.	1.8	8
35	Preliminary Investigation on a Rotary Magnetocaloric Refrigerator Prototype. Energy Procedia, 2017, 142, 1288-1293.	1.8	8
36	Handling Wind Variability Using Gas Turbines. , 2012, , .		7

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37	Storage Solutions for Renewable Production in Household Sector. Energy Procedia, 2014, 61, 242-245.	1.8	7
38	Preliminary Investigations on a Test Bench for Integrated Micro-CHP Energy Systems. Energy Procedia, 2014, 45, 1275-1284.	1.8	7
39	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
40	Gas Turbine Power Augmentation Technologies: A Systematic Comparative Evaluation Approach. , 2010, , .		6
41	Experimental Investigation with Steady-State Detection in a Micro-ORC Test Bench. Energy Procedia, 2017, 126, 469-476.	1.8	6
42	Combined Heat and Power Generation Systems Design for Residential Houses. Energy Procedia, 2019, 158, 2768-2773.	1.8	6
43	Overall Performance Evaluation of Small Scale LNG Production Processes. Applied Sciences (Switzerland), 2020, 10, 785.	1.3	6
44	Performance Indexes and Output Allocation for Multi-fuel Energy Systems. Energy Procedia, 2014, 45, 32-41.	1.8	5
45	Environmental Assessment of Renewable Fuel Energy Systems with Cross-Media Effects Approach. Energy Procedia, 2015, 81, 655-664.	1.8	5
46	Performance prediction of a reciprocating piston expander with semi-empirical models. Energy Procedia, 2019, 158, 1737-1743.	1.8	5
47	Computing Gas Turbine Fuel Consumption to Firm Up Wind Power. , 2012, , .		4
48	Wind-Hydro-Gas Turbine Unit Commitment to Guarantee Firm Dispatchable Power. , 2014, , .		4
49	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
50	Experimental Investigation on a Solar/Hydrogen-Based Microgrid. Energy Procedia, 2017, 105, 343-349.	1.8	4
51	Optimum Organic Rankine Cycle Design for the Application in a CHP Unit Feeding a District Heating Network. Energies, 2020, 13, 1314.	1.6	4
52	Thermo-Economic Evaluation of ORC System in Off-Shore Applications. , 2014, , .		3
53	Organic Rankine Cycle System for Effective Energy Recovery in Offshore Applications: A Parametric Investigation With Different Power Rating Gas Turbines. , 2015, , .		3
54	Waste-to-Energy. , 2015, , 19-36.		3

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55	On-site LNG production at filling stations. Applied Thermal Engineering, 2018, 137, 142-153.	3.0	3
56	A dynamic model of a solar driven trigeneration system based on micro-ORC and adsorption chiller prototypes. AIP Conference Proceedings, 2019, , .	0.3	3
57	Complex energy networks optimization for renewables exploitation and efficiency increase. AIP Conference Proceedings, 2019, , .	0.3	3
58	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
59	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
60	Repowering Existing Under-utilized WTE Power Plant with Gas Turbine. Energy Procedia, 2014, 61, 238-241.	1.8	2
61	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
62	Influence of the Prosumer Allocation and Heat Production on a District Heating Network. Frontiers in Mechanical Engineering, 2021, 7, .	0.8	2
63	A Comparison Between Organic Rankine Cycle and Supercritical CO <sub>2</sub> Bottoming Cycles for Energy Recovery From Industrial Gas Turbines Exhaust Gas. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	2
64	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
65	Investigations on a Test Bench for Integrated ORC-FC Micro-CHP Energy Systems. , 2014, , .		1
66	Renewable Energy Systems Integration for Efficiency Improvement of a CHP Unit. , 2017, , .		1
67	Energy Recovery in Natural Gas Compressor Stations Taking Advantage of Organic Rankine Cycle: Preliminary Design Analysis. , 2017, , .		1
68	Simplified Model for PV Panels Performance Prediction. Energy Procedia, 2017, 142, 198-203.	1.8	1
69	Off-Design Performance Evaluation of a LNG Production Plant Coupled With Renewables. , 2019, , .		1
70	Available and Future Gas Turbine Power Augmentation Technologies: Techno-Economic Analysis in Selected Climatic Conditions. , 2012, , .		0
71	Thermo-Economic Analysis of a Photovoltaic-Fuel Cell Hybrid System With Energy Storage for CHP Production in Household Sector. , 2016, , .		0
72	Smart district heating: Cogeneration and solar systems integration to convert an existing utility substation. AIP Conference Proceedings, 2019, , .	0.3	0

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73	Complex energy networks: energy-ecological efficiency based evaluations towards the sustainability in energy sector. E3S Web of Conferences, 2021, 238, 05004.	0.2	0
74	Performance Indexes and Output Allocation for Multi-fuel Energy Systems. , 2015, , 113-126.		0
75	Specific Application Cases with GT Commercial Units. , 2015, , 127-139.		0
76	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