

Gianluigi Lo Basso

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

33
papers

868
citations

18
h-index

29
g-index

34
ext. papers

1,063
ext. citations

5.2
avg, IF

5.06
L-index

#	Paper	IF	Citations
33	H2NG environmental-energy-economic effects in hybrid energy systems for building refurbishment in future National Power to Gas scenarios. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 11289-11301	6.7	1
32	Modeling and Analysis of a Micro Gas Turbine Fuelled with Hydrogen and Natural Gas Blends. <i>E3S Web of Conferences</i> , 2021 , 312, 08012	0.5	0
31	Implementation and Simulation of Real Load Shifting Scenarios Based on a Flexibility Price Market Strategy in the Italian Residential Sector as a Case Study. <i>Energies</i> , 2021 , 14, 3080	3.1	1
30	An Experimental Investigation on Energy Performance of The Hybrid Photovoltaic Thermal System. <i>E3S Web of Conferences</i> , 2020 , 197, 08003	0.5	
29	Adsorption gas Heat Pump fuelled with hydrogen enriched natural gas blends: the analytical simulation model development and validation. <i>E3S Web of Conferences</i> , 2020 , 197, 08002	0.5	2
28	How Climate Change Affects the Building Energy Consumptions Due to Cooling, Heating, and Electricity Demands of Italian Residential Sector. <i>Energies</i> , 2020 , 13, 410	3.1	22
27	Seasonal energy and environmental characterization of a micro gas turbine fueled with H2NG blends. <i>Energy</i> , 2020 , 193, 116678	7.9	11
26	Energy-environmental experimental campaign on a commercial CHP fueled with H2NG blends and oxygen enriched air hailing from on-site electrolysis. <i>Energy</i> , 2020 , 195, 116820	7.9	7
25	How the Italian Residential Sector Could Contribute to Load Flexibility in Demand Response Activities: A Methodology for Residential Clustering and Developing a Flexibility Strategy. <i>Energies</i> , 2020 , 13, 3359	3.1	11
24	Dynamic Simulation Model of Trans-Critical Carbon Dioxide Heat Pump Application for Boosting Low Temperature Distribution Networks in Dwellings. <i>Energies</i> , 2019 , 12, 484	3.1	11
23	Energy Use in Residential Buildings: Characterisation for Identifying Flexible Loads by Means of a Questionnaire Survey. <i>Energies</i> , 2019 , 12, 2055	3.1	15
22	Energy Use in Residential Buildings: Impact of Building Automation Control Systems on Energy Performance and Flexibility. <i>Energies</i> , 2019 , 12, 2896	3.1	21
21	BIM tools interoperability for designing energy-efficient buildings 2019 ,		1
20	Analysis on the potential of an energy aggregator for domestic users in the Italian electricity system 2019 ,		3
19	Hybrid systems adoption for lowering historic buildings PFEC (primary fossil energy consumption) - A comparative energy analysis. <i>Renewable Energy</i> , 2018 , 117, 414-433	8.1	23
18	Innovative Hybrid Energy Systems for Heading Towards NZEB Qualification for Existing Buildings 2018 ,		1
17	Power-to-gas leverage effect on power-to-heat application for urban renewable thermal energy systems. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23076-23090	6.7	38

16	Analysing economic and environmental sustainability related to the use of battery and hydrogen energy storages for increasing the energy independence of small islands. <i>Energy Conversion and Management</i> , 2018 , 177, 64-76	10.6	62
15	How to handle the Hydrogen enriched Natural Gas blends in combustion efficiency measurement procedure of conventional and condensing boilers. <i>Energy</i> , 2017 , 123, 615-636	7.9	64
14	The Potential of Hydrogen Enriched Natural Gas deriving from Power-to-Gas option in Building Energy Retrofitting. <i>Energy and Buildings</i> , 2017 , 149, 424-436	7	41
13	Heading towards the nZEB through CHP+HP systems. A comparison between retrofit solutions able to increase the energy performance for the heating and domestic hot water production in residential buildings. <i>Energy Conversion and Management</i> , 2017 , 138, 61-76	10.6	51
12	Innovative Hybrid CHP systems for high temperature heating plant in existing buildings. <i>Energy Procedia</i> , 2017 , 133, 207-218	2.3	20
11	An overview on safety issues related to hydrogen and methane blend applications in domestic and industrial use. <i>Energy Procedia</i> , 2017 , 126, 297-304	2.3	18
10	Power-to-Gas integration in the Transition towards Future Urban Energy Systems. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23933-23951	6.7	59
9	Energy retrofitting of residential buildings: How to couple Combined Heat and Power (CHP) and Heat Pump (HP) for thermal management and off-design operation. <i>Energy and Buildings</i> , 2017 , 151, 293-305	7	33
8	A Preliminary Energy Analysis of a Commercial CHP Fueled with H ₂ NG Blends Chemically Supercharged by Renewable Hydrogen and Oxygen. <i>Energy Procedia</i> , 2016 , 101, 1272-1279	2.3	12
7	Hydrogen to link heat and electricity in the transition towards future Smart Energy Systems. <i>Energy</i> , 2016 , 110, 5-22	7.9	147
6	H ₂ NG (hydrogen-natural gas mixtures) effects on energy performances of a condensing micro-CHP (combined heat and power) for residential applications: An expeditious assessment of water condensation and experimental analysis. <i>Energy</i> , 2015 , 84, 397-418	7.9	50
5	Single Cylinder Internal Combustion Engine Fuelled with H ₂ NG Operating as Micro-CHP for Residential Use: Preliminary Experimental Analysis on Energy Performances and Numerical Simulations for LCOE Assessment. <i>Energy Procedia</i> , 2015 , 81, 1077-1089	2.3	30
4	RES (Renewable Energy Sources) Availability Assessments for Eco-fuels Production at Local Scale: Carbon Avoidance Costs Associated to a Hybrid Biomass/H ₂ NG-based Energy Scenario. <i>Energy Procedia</i> , 2015 , 81, 1069-1076	2.3	23
3	A small scale H ₂ NG production plant in Italy: Techno-economic feasibility analysis and costs associated with carbon avoidance. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6497-6517	6.7	39
2	Hybrid system with an integrated CHP plant fueled by H ₂ NG blends: Theoretical energy-environmental analysis and foreseeable optimizations. <i>Energy and Buildings</i> , 2014 , 71, 88-94	7	13
1	Energy characterization of CHP (combined heat and power) fuelled with hydrogen enriched natural gas blends. <i>Energy</i> , 2013 , 60, 13-22	7.9	38