

# Luca Antonio Tagliafico

## List of Publications by Citations

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39  
papers

864  
citations

15  
h-index

29  
g-index

39  
ext. papers

981  
ext. citations

5.8  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
39	Heating and cooling building energy demand evaluation; a simplified model and a modified degree days approach. <i>Applied Energy</i> , <b>2014</b> , 128, 217-229	10.7	130
38	Dynamic thermal models and CFD analysis for flat-plate thermal solar collectors IIA review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 30, 526-537	16.2	80
37	Analysis and future outlook of natural gas consumption in the Italian residential sector. <i>Energy Conversion and Management</i> , <b>2014</b> , 87, 754-764	10.6	67
36	Scenario analysis of nonresidential natural gas consumption in Italy. <i>Applied Energy</i> , <b>2014</b> , 113, 392-403	10.7	58
35	Numerical analysis of the Al <sub>2</sub> O <sub>3</sub> -water nanofluid forced laminar convection in an asymmetric heated channel for application in flat plate PV/T collector. <i>Renewable Energy</i> , <b>2018</b> , 116, 9-21	8.1	57
34	Historical trends and current state of heating and cooling degree days in Italy. <i>Energy Conversion and Management</i> , <b>2015</b> , 90, 323-335	10.6	50
33	Estimation of primary energy savings by using heat pumps for heating purposes in the residential sector. <i>Applied Thermal Engineering</i> , <b>2017</b> , 114, 938-947	5.8	45
32	An approach to energy saving assessment of solar assisted heat pumps for swimming pool water heating. <i>Energy and Buildings</i> , <b>2012</b> , 55, 833-840	7	37
31	Modeling energy consumption and efficiency measures in the Italian hotel sector. <i>Energy and Buildings</i> , <b>2017</b> , 149, 329-338	7	32
30	Implementation of a cogeneration plant for a food processing facility. A case study. <i>Applied Thermal Engineering</i> , <b>2016</b> , 102, 500-512	5.8	27
29	Direct expansion solar assisted heat pumps IIA clean steady state approach for overall performance analysis. <i>Applied Thermal Engineering</i> , <b>2014</b> , 66, 216-226	5.8	25
28	Preliminary experimental results from a linear reciprocating magnetic refrigerator prototype. <i>Applied Thermal Engineering</i> , <b>2013</b> , 52, 492-497	5.8	24
27	Analysis of energy demand in residential buildings for different climates by means of dynamic simulation. <i>International Journal of Ambient Energy</i> , <b>2016</b> , 37, 108-120	2	21
26	Experimental and numerical results from hybrid retrofitted photovoltaic panels. <i>Energy Conversion and Management</i> , <b>2013</b> , 76, 634-644	10.6	19
25	Exploitation of humid air latent heat by means of solar assisted heat pumps operating below the dew point. <i>Applied Thermal Engineering</i> , <b>2016</b> , 100, 820-828	5.8	16
24	A classification methodology applied to existing room temperature magnetic refrigerators up to the year 2014. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 50, 497-503	16.2	15
23	Current situation and future perspectives of European natural gas sector. <i>Frontiers in Energy</i> , <b>2015</b> , 9, 1-6	2.6	15

22	Liquefied natural gas submerged combustion vaporization facilities: process integration with power conversion units. <i>International Journal of Energy Research</i> , <b>2013</b> , 37, 80-92	4.5	15
21	Life-cycle approach to the estimation of energy efficiency measures in the buildings sector. <i>Applied Energy</i> , <b>2020</b> , 264, 114745	10.7	14
20	A compact dynamic model for household vapor compression refrigerated systems. <i>Applied Thermal Engineering</i> , <b>2012</b> , 35, 1-8	5.8	14
19	A novel steady-state approach for the analysis of gas-burner supplemented direct expansion solar assisted heat pumps. <i>Solar Energy</i> , <b>2013</b> , 96, 227-238	6.8	13
18	Thermal performance analysis for hot-wall condenser and evaporator configurations in refrigeration appliances. <i>International Journal of Refrigeration</i> , <b>1998</b> , 21, 490-502	3.8	12
17	A simulation code for batch heat treatments. <i>International Journal of Thermal Sciences</i> , <b>2004</b> , 43, 509-517	4.1	11
16	Impact of wall discretization on the modeling of heating/cooling energy consumption of residential buildings. <i>Energy Efficiency</i> , <b>2016</b> , 9, 95-108	3	10
15	A dimensionless description of active magnetic regenerators to compare their performance and to simplify their optimization. <i>International Journal of Refrigeration</i> , <b>2013</b> , 36, 941-949	3.8	10
14	Inverse cycles modeling without refrigerant property specification. <i>International Journal of Refrigeration</i> , <b>2013</b> , 36, 1716-1729	3.8	7
13	Dynamic 1D Model of an Active Magnetic Regenerator: A Parametric Investigation. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , <b>2012</b> , 58, 9-15	1.3	7
12	The impact of the national assessment exercises on self-citation rate and publication venue: an empirical investigation on the engineering academic sector in Italy. <i>Scientometrics</i> , <b>2018</b> , 117, 997-1022	3	6
11	Heat pumps for buildings heating: Energy, environmental, and economic issues. <i>Energy and Environment</i> , <b>2020</b> , 31, 116-129	2.4	5
10	An innovative approach to local solar energy planning in Riva Trigoso, Italy. <i>Journal of Building Engineering</i> , <b>2020</b> , 27, 100968	5.2	5
9	Impact of the Utilization of Heat Pumps for Buildings Heating in the Italian Power Market <b>2018</b> ,		5
8	Forecasting Energy Consumption in the EU Residential Sector. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	3
7	Influence of some design parameters on the thermal performance of domestic refrigerator appliances. <i>Heat and Mass Transfer</i> , <b>2006</b> , 42, 803-811	2.2	3
6	Dynamic Modelling of LNG Powered Combined Energy Systems in Port Areas. <i>Energies</i> , <b>2021</b> , 14, 3640	3.1	3
5	Financial and energy performance analysis of efficiency measures in residential buildings. A probabilistic approach. <i>Energy</i> , <b>2021</b> , 236, 121491	7.9	2

4	Electrification of the residential heat demand: An analysis of the power market potential to accommodate heat pumps. <i>Thermal Science and Engineering Progress</i> , <b>2022</b> , 27, 101173	3.6	1
3	Thermophysical Property Estimation by Transient Experiments: The Effect of a Biased Initial Temperature Distribution. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-9	1.1	
2	The experience on a sport centre pilot plant with solar assisted heat pump and a look forward for new control strategies and technology upgrade. <i>E3S Web of Conferences</i> , <b>2021</b> , 312, 04004	0.5	
1	Application of PCMs to Improve Energy Efficiency in Residential Buildings. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 1-12	0.3	