

Alessandro Franco

List of Publications by Year in descending order

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91
papers

3,275
citations

182225

30
h-index

175968

55
g-index

95
all docs

95
docs citations

95
times ranked

3430
citing authors

#	ARTICLE	IF	CITATIONS
1	A design methodology for thermal storages in heat pump systems to reduce partial-load losses. Applied Thermal Engineering, 2022, 215, 118971.	3.0	3
2	Passive Solar Solutions for Buildings: Criteria and Guidelines for a Synergistic Design. Applied Sciences (Switzerland), 2021, 11, 376.	1.3	10
3	Optimal sizing of an integrated energy system for a nearly zero-energy residential building. Journal of Physics: Conference Series, 2021, 1868, 012025.	0.3	0
4	Optimized Energy and Air Quality Management of Shared Smart Buildings in the COVID-19 Scenario. Energies, 2021, 14, 2124.	1.6	15
5	Multi-Objective Optimization of HVAC Operation for Balancing Energy Use and Occupant Comfort in Educational Buildings. Energies, 2021, 14, 2847.	1.6	10
6	Energy Intensity Reduction in Large-Scale Non-Residential Buildings by Dynamic Control of HVAC with Heat Pumps. Energies, 2021, 14, 3878.	1.6	8
7	Optimal Operation of Low-Capacity Heat Pump Systems for Residential Buildings through Thermal Energy Storage. Sustainability, 2021, 13, 7200.	1.6	2
8	Energy Sustainability of Food Stores and Supermarkets through the Installation of PV Integrated Plants. Energies, 2021, 14, 5678.	1.6	1
9	HVAC Energy Saving Strategies for Public Buildings Based on Heat Pumps and Demand Controlled Ventilation. Energies, 2021, 14, 5541.	1.6	18
10	A method for optimal operation of HVAC with heat pumps for reducing the energy demand of large-scale non residential buildings. Journal of Building Engineering, 2021, 43, 103175.	1.6	8
11	Sizing strategies of photovoltaic systems in nZEB schemes to maximize the self-consumption share. Energy Reports, 2021, 7, 6769-6785.	2.5	13
12	Monitoring of photovoltaic systems and evaluation of building energy self-consumption. Journal of Physics: Conference Series, 2021, 2042, 012088.	0.3	0
13	Measurement of CO2 concentration for occupancy estimation in educational buildings with energy efficiency purposes. Journal of Building Engineering, 2020, 32, 101714.	1.6	53
14	Definition of Optimal Ventilation Rates for Balancing Comfort and Energy Use in Indoor Spaces Using CO2 Concentration Data. Buildings, 2020, 10, 135.	1.4	29
15	A thermo-economic based method for the design of process heat solar systems. Journal of Physics: Conference Series, 2020, 1599, 012031.	0.3	0
16	Balancing User Comfort and Energy Efficiency in Public Buildings through Social Interaction by ICT Systems. Systems, 2020, 8, 29.	1.2	10
17	Optimal Sizing of Solar-Assisted Heat Pump Systems for Residential Buildings. Buildings, 2020, 10, 175.	1.4	10
18	Experimental Analysis of an Air Heat Pump for Heating Service Using a "Hardware-In-The-Loop" System. Energies, 2020, 13, 4498.	1.6	10

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19	Ultrasounds Used as Promoters of Heat-Transfer Enhancement of Natural Convection in Dielectric Fluids for the Thermal Control of Electronic Equipment. <i>Acoustics</i> , 2020, 2, 279-292.	0.8	7
20	Clearing a Path for Ground Heat Exchange Systems: A Review on Thermal Response Test (TRT) Methods and a Geotechnical Routine Test for Estimating Soil Thermal Properties. <i>Energies</i> , 2020, 13, 2965.	1.6	21
21	Methods for the Sustainable Design of Solar Energy Systems for Industrial Process Heat. <i>Sustainability</i> , 2020, 12, 5127.	1.6	14
22	Passive solar systems for buildings: performance indicators analysis and guidelines for the design. <i>E3S Web of Conferences</i> , 2020, 197, 02008.	0.2	3
23	Clustering of educational building load data for defining healthy and energy-efficient management solutions of integrated HVAC systems. <i>E3S Web of Conferences</i> , 2020, 197, 03001.	0.2	2
24	Sustainable Sizing of Geothermal Power Plants: Appropriate Potential Assessment Methods. <i>Sustainability</i> , 2020, 12, 3844.	1.6	10
25	Occupancy modelling of buildings based on CO2 concentration measurements: an experimental analysis. <i>Journal of Physics: Conference Series</i> , 2019, 1224, 012016.	0.3	5
26	The ultrasounds as a mean for the enhancement of heat exchanger performances: an analysis of the available data. <i>Journal of Physics: Conference Series</i> , 2019, 1224, 012035.	0.3	6
27	Heat Transfer Enhancement due to Acoustic Fields: A Methodological Analysis. <i>Acoustics</i> , 2019, 1, 281-294.	0.8	12
28	Day-Ahead Hourly Forecasting of Power Generation From Photovoltaic Plants. <i>IEEE Transactions on Sustainable Energy</i> , 2018, 9, 831-842.	5.9	156
29	Effects of large scale penetration of renewables: The Italian case in the years 2008â€“2015. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 3090-3100.	8.2	41
30	Editorial preface â€“ ATI 2018 â€“ <i>Energy Procedia</i> . <i>Energy Procedia</i> , 2018, 148, 1.	1.8	0
31	Methods for optimized design and management of CHP systems for district heating networks (DHN). <i>Energy Conversion and Management</i> , 2018, 172, 21-31.	4.4	48
32	Multi-objective optimization for the maximization of the operating share of cogeneration system in District Heating Network. <i>Energy Conversion and Management</i> , 2017, 139, 33-44.	4.4	42
33	Optimum sizing and operational strategy of CHP plant for district heating based on the use of composite indicators. <i>Energy</i> , 2017, 124, 258-271.	4.5	34
34	An experimental investigation and optimization of screen mesh heat pipes for low-mid temperature applications. <i>Experimental Thermal and Fluid Science</i> , 2017, 84, 120-133.	1.5	16
35	An experimental investigation on the evaporation and condensation heat transfer of two-phase closed thermosyphons. <i>Experimental Thermal and Fluid Science</i> , 2017, 88, 111-123.	1.5	55
36	Unsteady experimental and numerical analysis of a two-phase closed thermosyphon at different filling ratios. <i>Experimental Thermal and Fluid Science</i> , 2017, 81, 164-174.	1.5	89

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37	Recent trends in the development of heat exchangers for geothermal systems. Journal of Physics: Conference Series, 2017, 923, 012044.	0.3	2
38	Acute pancreatitis: confronting to improve. Italian Journal of Medicine, 2017, 11, 164.	0.2	0
39	Natural gas consumption and correlation with the uses of thermal energy: Analysis of the Italian case. Journal of Natural Gas Science and Engineering, 2016, 31, 703-714.	2.1	9
40	Modelling of a cross flow evaporator for CSP application: Analysis of the use of different two phase heat transfer and pressure drop correlations. International Journal of Thermal Sciences, 2016, 107, 66-76.	2.6	12
41	Analysis of energy consumption in micro-drilling processes. Journal of Cleaner Production, 2016, 137, 1260-1269.	4.6	17
42	Two-phase closed thermosyphons: A review of studies and solar applications. Renewable and Sustainable Energy Reviews, 2016, 53, 575-593.	8.2	221
43	Experimental analysis of a self consumption strategy for residential building: The integration of PV system and geothermal heat pump. Renewable Energy, 2016, 86, 1075-1085.	4.3	80
44	Analysis and clustering of natural gas consumption data for thermal energy use forecasting. Journal of Physics: Conference Series, 2015, 655, 012020.	0.3	4
45	Design and experimental analysis of a screened heat pipe for solar applications. Journal of Physics: Conference Series, 2015, 655, 012022.	0.3	1
46	Thermodynamic analysis of direct expansion configurations for electricity production by LNG cold energy recovery. Applied Thermal Engineering, 2015, 78, 649-657.	3.0	80
47	Optimum design of bipolar plates for separate air flow cooling system of PEM fuel cells stacks. Heat and Mass Transfer, 2015, 51, 1691-1703.	1.2	3
48	Theoretical analysis of screened heat pipes for medium and high temperature solar applications. Journal of Physics: Conference Series, 2014, 547, 012010.	0.3	8
49	Thermodynamic and heat transfer analysis of LNG energy recovery for power production. Journal of Physics: Conference Series, 2014, 547, 012012.	0.3	10
50	Electrical load clustering: The Italian case. , 2014, , .		8
51	Modelling for predicting seam geometry in laser beam welding of stainless steel. International Journal of Thermal Sciences, 2014, 79, 194-205.	2.6	47
52	A combined energetic and economic approach for the sustainable design of geothermal plants. Energy Conversion and Management, 2014, 87, 735-745.	4.4	23
53	Numerical simulation of geothermal reservoirs for the sustainable design of energy plants: A review. Renewable and Sustainable Energy Reviews, 2014, 30, 987-1002.	8.2	109
54	Analysis of thermodynamic losses in ground source heat pumps and their influence on overall system performance. Journal of Physics: Conference Series, 2014, 547, 012006.	0.3	10

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55	Experimental analysis of Closed Loop Two Phase Thermosyphon (CLTPT) for energy systems. <i>Experimental Thermal and Fluid Science</i> , 2013, 51, 302-311.	1.5	65
56	A double-point moving source model for predicting seam geometry in laser welding. <i>CIRP Annals - Manufacturing Technology</i> , 2013, 62, 219-222.	1.7	4
57	On the use of heat pipe principle for the exploitation of medium-“low temperature geothermal resources. <i>Applied Thermal Engineering</i> , 2013, 59, 189-199.	3.0	51
58	The smart gas grid: state of the art and perspectives. , 2013, , .		3
59	Closed Loop Two-Phase Thermosyphon of Small Dimensions: a Review of the Experimental Results. <i>Microgravity Science and Technology</i> , 2012, 24, 165-179.	0.7	95
60	An integrated “Reservoir-Plant” strategy for a sustainable and efficient use of geothermal resources. <i>Energy</i> , 2012, 37, 299-310.	4.5	33
61	Characterization of laser energy consumption in sintering of polymer based powders. <i>Journal of Materials Processing Technology</i> , 2012, 212, 917-926.	3.1	40
62	Power production from a moderate temperature geothermal resource with regenerative Organic Rankine Cycles. <i>Energy for Sustainable Development</i> , 2011, 15, 411-419.	2.0	64
63	Analysis of small size combined cycle plants based on the use of supercritical HRSG. <i>Applied Thermal Engineering</i> , 2011, 31, 785-794.	3.0	19
64	Strategies for optimal penetration of intermittent renewables in complex energy systems based on techno-operational objectives. <i>Renewable Energy</i> , 2011, 36, 743-753.	4.3	107
65	Experimental analysis of selective laser sintering of polyamide powders: an energy perspective. <i>Journal of Cleaner Production</i> , 2010, 18, 1722-1730.	4.6	74
66	EXPERIMENTAL ANALYSIS OF HEAT AND MASS TRANSFER IN SMALL DIMENSION, TWO-PHASE LOOP THERMOSYPHONS. <i>Heat Pipe Science and Technology an International Journal</i> , 2010, 1, 163-182.	0.2	12
67	Optimal design of binary cycle power plants for water-dominated, medium-temperature geothermal fields. <i>Geothermics</i> , 2009, 38, 379-391.	1.5	183
68	An analytical method for the optimum thermal design of convective longitudinal fin arrays. <i>Heat and Mass Transfer</i> , 2009, 45, 1503-1517.	1.2	16
69	The future challenges for “clean coal technologies” Joining efficiency increase and pollutant emission control. <i>Energy</i> , 2009, 34, 348-354.	4.5	272
70	Utility functions for the multi criteria assessment of energy conversion systems. <i>International Journal of Environmental Technology and Management</i> , 2007, 7, 178.	0.1	1
71	An apparatus for the routine measurement of thermal conductivity of materials for building application based on a transient hot-wire method. <i>Applied Thermal Engineering</i> , 2007, 27, 2495-2504.	3.0	108
72	Environmental sustainability of CO2 capture in fossil fuel based power plants. <i>WIT Transactions on Ecology and the Environment</i> , 2007, , .	0.0	0

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73	A general method for the optimum design of heat recovery steam generators. Energy, 2006, 31, 3342-3361.	4.5	65
74	Heat transfer enhancement in pool boiling of a refrigerant fluid with wire nets structures. Experimental Thermal and Fluid Science, 2006, 30, 263-275.	1.5	24
75	A Thermodynamic Based Approach for the Multicriteria Assessment of Energy Conversion Systems. Journal of Energy Resources Technology, Transactions of the ASME, 2006, 128, 346-351.	1.4	10
76	Optimum thermal design of modular compact heat exchangers structure for heat recovery steam generators. Applied Thermal Engineering, 2005, 25, 1293-1313.	3.0	38
77	Perspectives for the use of biomass as fuel in combined cycle power plants. International Journal of Thermal Sciences, 2005, 44, 163-177.	2.6	101
78	Thermoeconomic optimization of heat recovery steam generators operating parameters for combined plants. Energy, 2004, 29, 389-414.	4.5	123
79	Thermoeconomic evaluation of the feasibility of highly efficient combined cycle power plants. Energy, 2004, 29, 1963-1982.	4.5	29
80	Combined cycle plant efficiency increase based on the optimization of the heat recovery steam generator operating parameters. International Journal of Thermal Sciences, 2002, 41, 843-859.	2.6	129
81	On some perspectives for increasing the efficiency of combined cycle power plants. Applied Thermal Engineering, 2002, 22, 1501-1518.	3.0	89
82	On the Optimum Thermal Design of Individual Longitudinal Fins with Rectangular Profile. Heat Transfer Engineering, 2001, 22, 51-71.	1.2	18
83	Analysis of the heat dissipation enhancement with finned surfaces in pool boiling of dielectric fluid. Heat and Mass Transfer, 2000, 36, 487-495.	1.2	7
84	Methods to Evaluate In-Cylinder Heat Transfer and Thermal Load in the Small Internal Combustion Engines. , 1999, , .		7
85	Development of Two Stroke Engines With Direct Injection. , 1995, , .		7
86	Principles for Optimisation of Air Cooling System Applied to the Two-Stroke Engine. , 0, , .		9
87	Numerical Analysis of the Performances of a Small Two-Stroke Engine with Direct Injection. , 0, , .		13
88	A Basic Method for the Two-Stroke Engine Air Cooling System Design and Optimization. , 0, , .		3
89	Evaluations on the Heat Transfer in the Small Two-stroke Engines. , 0, , .		16
90	Fluid Dynamic Modeling of Gasoline Direct Injection for Compact Combustion Chambers. , 0, , .		12

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91	Concept for Modeling and Optimization of the Mixture Formation Using Gasoline Direct Injection in Compact High Speed Engines. , 0, , .		10