Maurizio Sasso

List of Publications by Year
in descending order

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37	1,294	304743 22	414414 32
papers	citations	h-index	g-index

38	38	38	939
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental analysis on the dehumidification and thermal performance of a desiccant wheel. Applied Energy, 2012, 92, 563-572.	10.1	128
2	Analysis and diagnosis of the energy performance of buildings and districts: Methodology, validation and development of Urban Energy Maps. Cities, 2013, 35, 270-283.	5.6	83
3	Instrumentation failure following pedicle subtraction osteotomy: the role of rod material, diameter, and multi-rod constructs. European Spine Journal, 2017, 26, 764-770.	2.2	77
4	Effect of rotational speed on the performances of a desiccant wheel. Applied Energy, 2013, 104, 268-275.	10.1	76
5	Desiccant wheel regenerated by thermal energy from a microcogenerator: Experimental assessment of the performances. Applied Energy, 2011, 88, 1354-1365.	10.1	75
6	Experimental assessment of the energy performance of a hybrid desiccant cooling system and comparison with other air-conditioning technologies. Applied Energy, 2015, 138, 533-545.	10.1	67
7	Experimental analysis of microcogenerators based on different prime movers. Energy and Buildings, 2011, 43, 796-804.	6.7	66
8	Desiccant HVAC system driven by a micro-CHP: Experimental analysis. Energy and Buildings, 2010, 42, 2028-2035.	6.7	62
9	Experimental investigation to optimise a desiccant HVAC system coupled to a small size cogenerator. Applied Thermal Engineering, 2011, 31, 506-512.	6.0	58
10	Dynamic performance assessment of a micro-trigeneration system with a desiccant-based air handling unit in Southern Italy climatic conditions. Energy Conversion and Management, 2014, 80, 188-201.	9.2	53
11	Dynamic simulation of a solar heating and cooling system for an office building located in Southern Italy. Applied Thermal Engineering, 2016, 103, 377-390.	6.0	50
12	Experimental validation of constant efficiency models for the subsystems of an unconventional desiccant-based Air Handling Unit and investigation of its performance. Applied Thermal Engineering, 2012, 33-34, 100-108.	6.0	47
13	Calibration and validation of a thermal energy storage model: Influence on simulation results. Applied Thermal Engineering, 2014, 67, 190-200.	6.0	38
14	Dynamic simulations of hybrid energy systems in load sharing application. Applied Thermal Engineering, 2015, 78, 315-325.	6.0	38
15	Finite element analysis of the lumbar destabilization following pedicle subtraction osteotomy. Medical Engineering and Physics, 2016, 38, 506-509.	1.7	37
16	Integration between electric vehicle charging and micro-cogeneration system. Energy Conversion and Management, 2015, 98, 115-126.	9.2	32
17	Combined cooling, heating and power for small urban districts: AnÂItalian case-study. Applied Thermal Engineering, 2014, 71, 705-713.	6.0	30
18	Microcogeneration in buildings with low energy demand in load sharing application. Energy Conversion and Management, 2015, 100, 78-89.	9.2	29

#	Article	IF	Citations
19	The State of the Art of Smart Energy Communities: A Systematic Review of Strengths and Limits. Energies, 2022, 15, 3462.	3.1	28
20	Load sharing with a local thermal network fed by a microcogenerator: Thermo-economic optimization by means of dynamic simulations. Applied Thermal Engineering, 2014, 71, 628-635.	6.0	26
21	Small Renewable Energy Community: The Role of Energy and Environmental Indicators for Power Grid. Sustainability, 2021, 13, 2137.	3.2	24
22	Analysis of a Hybrid Solar-Assisted Trigeneration System. Energies, 2016, 9, 705.	3.1	23
23	Energy, Environmental and Economic Performance of an Urban Community Hybrid Distributed Energy System. Energies, 2020, 13, 2545.	3.1	22
24	Assessment of Energy, Environmental and Economic Performance of a Solar Desiccant Cooling System with Different Collector Types. Energies, 2014, 7, 6741-6764.	3.1	21
25	Exergetic analysis of a desiccant cooling system: searching for performance improvement opportunities. International Journal of Energy Research, 2014, 38, 714-727.	4.5	21
26	Modelling of a rotary desiccant wheel: Numerical validation of a Variable Properties Model. Applied Thermal Engineering, 2015, 78, 640-648.	6.0	21
27	Assessment of micro-cogeneration potential for domestic trigeneration. International Journal of Environmental Technology and Management, 2007, 7, 147.	0.2	17
28	Modelling of Polymeric Shell and Tube Heat Exchangers for Low-Medium Temperature Geothermal Applications. Energies, 2020, 13, 2737.	3.1	11
29	A metrological analysis of the in-situ evaluation of the performance of a gas engine-driven heat pump. Measurement: Journal of the International Measurement Confederation, 1995, 16, 209-217.	5.0	9
30	Gas Engine-Driven Heat Pumps for Small-Scale Applications: State-of-the-Art and Future Perspectives. Energies, 2021, 14, 4845.	3.1	7
31	A Review on Microcogeneration National Testing Procedures. Energy Procedia, 2014, 45, 1372-1381.	1.8	6
32	Exergoeconomic Optimization of Polymeric Heat Exchangers for Geothermal Direct Applications. Energies, 2021, 14, 6994.	3.1	4
33	3-E Analysis of a Heat Pump Driven by a Micro-Cogenerator. , 2005, , .		3
34	Experimental Analysis of Small Scale Cogenerators Based on Natural Gas Fired Reciprocating Internal Combustion Engine. , 2010, , .		2
35	Residential microcogenerators for multifamily houses. , 2013, , .		1
36	Thermo-Economic Analysis of a Solar Heating and Cooling System With Desiccant-Based Air Handling Unit by Means of Dynamic Simulations. , 2014, , .		1

#	Article	IF	Citations
37	Miniaturization of Energy Conversion Systems: Energetic Analysis. , 2005, , .		1