

Antonio Rosato

List of Publications by Year in descending order

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48
papers

1,000
citations

331670

21
h-index

434195

31
g-index

49
all docs

49
docs citations

49
times ranked

777
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy, environmental and economic dynamic performance assessment of different micro-cogeneration systems in a residential application. <i>Applied Thermal Engineering</i> , 2013, 59, 599-617.	6.0	73
2	Calibration and validation of a model for simulating thermal and electric performance of an internal combustion engine-based micro-cogeneration device. <i>Applied Thermal Engineering</i> , 2012, 45-46, 79-98.	6.0	63
3	Experimental results of a micro-trigeneration installation. <i>Applied Thermal Engineering</i> , 2012, 38, 78-90.	6.0	56
4	Thermo-economic sensitivity analysis by dynamic simulations of a small Italian solar district heating system with a seasonal borehole thermal energy storage. <i>Energy</i> , 2018, 143, 757-771.	8.8	55
5	Building-integrated trigeneration system: Energy, environmental and economic dynamic performance assessment for Italian residential applications. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 920-933.	16.4	41
6	Dynamic performance assessment of a residential building-integrated cogeneration system under different boundary conditions. Part I: Energy analysis. <i>Energy Conversion and Management</i> , 2014, 79, 731-748.	9.2	39
7	Smart thermal grid with integration of distributed and centralized solar energy systems. <i>Energy</i> , 2017, 122, 471-481.	8.8	39
8	Effects of solar field design on the energy, environmental and economic performance of a solar district heating network serving Italian residential and school buildings. <i>Renewable Energy</i> , 2019, 143, 596-610.	8.9	39
9	Virtual Reality for Smart Urban Lighting Design: Review, Applications and Opportunities. <i>Energies</i> , 2020, 13, 3809.	3.1	36
10	Energy, economic and environmental performance simulation of a hybrid renewable microgeneration system with neural network predictive control. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 455-473.	6.4	33
11	Impact of seasonal thermal energy storage design on the dynamic performance of a solar heating system serving a small-scale Italian district composed of residential and school buildings. <i>Journal of Energy Storage</i> , 2019, 25, 100889.	8.1	33
12	Performance assessment of a micro-cogeneration system under realistic operating conditions. <i>Energy Conversion and Management</i> , 2013, 70, 149-162.	9.2	32
13	Energy performance of a micro-cogeneration device during transient and steady-state operation: Experiments and simulations. <i>Applied Thermal Engineering</i> , 2013, 52, 478-491.	6.0	32
14	Dynamic performance assessment of a building-integrated cogeneration system for an Italian residential application. <i>Energy and Buildings</i> , 2013, 64, 343-358.	6.7	31
15	Dynamic performance assessment of a residential building-integrated cogeneration system under different boundary conditions. Part II: Environmental and economic analyses. <i>Energy Conversion and Management</i> , 2014, 79, 749-770.	9.2	28
16	Impact of solar field design and back-up technology on dynamic performance of a solar hybrid heating network integrated with a seasonal borehole thermal energy storage serving a small-scale residential district including plug-in electric vehicles. <i>Renewable Energy</i> , 2020, 154, 684-703.	8.9	28
17	A Review of Electrochromic Windows for Residential Applications. <i>International Journal of Heat and Technology</i> , 2016, 34, S481-S488.	0.6	28
18	Load sharing with a local thermal network fed by a microcogenerator: Thermo-economic optimization by means of dynamic simulations. <i>Applied Thermal Engineering</i> , 2014, 71, 628-635.	6.0	26

#	ARTICLE	IF	CITATIONS
19	Preliminary experimental characterization of a three-phase absorption heat pump. <i>International Journal of Refrigeration</i> , 2013, 36, 717-729.	3.4	22
20	Experimental analysis of a micro-trigeneration system composed of a micro-cogenerator coupled with an electric chiller. <i>Applied Thermal Engineering</i> , 2014, 73, 1309-1322.	6.0	21
21	Retrofitting Solutions for Energy Saving in a Historical Building Lighting System. <i>Energy Procedia</i> , 2015, 78, 2669-2674.	1.8	21
22	Energy, Environmental and Economic Effects of Electric Vehicle Charging on the Performance of a Residential Building-integrated Micro-trigeneration System. <i>Energy Procedia</i> , 2017, 111, 699-709.	1.8	21
23	Energy and Economic Evaluation of Retrofit Actions on an Existing Historical Building in the South of Italy by Using a Dynamic Simulation Software. <i>Energy Procedia</i> , 2015, 78, 741-746.	1.8	18
24	Experimental Calibration and Validation of a Simulation Model for Fault Detection of HVAC Systems and Application to a Case Study. <i>Energies</i> , 2020, 13, 3948.	3.1	18
25	Thermal model validation of an electric-driven smart window through experimental data and evaluation of the impact on a case study. <i>Building and Environment</i> , 2020, 181, 107134.	6.9	16
26	Electric-driven windows for historical buildings retrofit: Energy and visual sensitivity analysis for different control logics. <i>Journal of Building Engineering</i> , 2020, 31, 101398.	3.4	16
27	Influence of climatic conditions and control logic on NOx and CO emissions of a micro-cogeneration unit serving an Italian residential building. <i>Applied Thermal Engineering</i> , 2014, 71, 858-871.	6.0	14
28	Energy, environmental and economic dynamic assessment of a solar hybrid heating network operating with a seasonal thermal energy storage serving an Italian small-scale residential district: Influence of solar and back-up technologies. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100591.	2.7	14
29	Healthy and Faulty Experimental Performance of a Typical HVAC System under Italian Climatic Conditions: Artificial Neural Network-Based Model and Fault Impact Assessment. <i>Energies</i> , 2021, 14, 5362.	3.1	12
30	Yearly operation of a building-integrated microcogeneration system in south Italy: energy and economic analyses. <i>International Journal of Low-Carbon Technologies</i> , 2014, 9, 331-346.	2.6	10
31	Energy Performances Assessment of Extruded and 3D Printed Polymers Integrated into Building Envelopes for a South Italian Case Study. <i>Buildings</i> , 2021, 11, 141.	3.1	10
32	Energy performance of PVC-Coated polyester fabric as novel material for the building envelope: Model validation and a refurbishment case study. <i>Journal of Building Engineering</i> , 2021, 41, 102437.	3.4	9
33	Energy, Environmental and Economic Dynamic Simulation of a Micro-Cogeneration System Serving an Italian Multi-Family House. <i>Energy Procedia</i> , 2015, 78, 1141-1146.	1.8	8
34	Daylighting Contribution for Energy Saving in a Historical Building. <i>Energy Procedia</i> , 2015, 78, 1257-1262.	1.8	8
35	Model Analysis of Solar Thermal System with the Effect of Dust Deposition on the Collectors. <i>Energies</i> , 2018, 11, 1795.	3.1	8
36	Integration of Micro-Cogeneration Units and Electric Storages into a Micro-Scale Residential Solar District Heating System Operating with a Seasonal Thermal Storage. <i>Energies</i> , 2020, 13, 5456.	3.1	8

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37	Energy performance of a residential building-integrated micro-cogeneration system upon varying thermal load and control logic. <i>International Journal of Low-Carbon Technologies</i> , 2013, , ctt075.	2.6	5
38	Parametric Analysis of Solar Heating and Cooling Systems for Residential Applications. <i>Heat Transfer Engineering</i> , 2020, 41, 1052-1074.	1.9	4
39	Energy, Environmental and Economic Performance of a Micro-trigeneration System upon Varying the Electric Vehicle Charging Profiles. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2017, 5, 309-331.	1.9	4
40	Parametric Analysis of a Solar Heating and Cooling System for an Italian Multi-Family House. <i>International Journal of Heat and Technology</i> , 2016, 34, S458-S464.	0.6	4
41	Dynamic simulation of a solar heating and cooling system including a seasonal storage serving a small Italian residential district. <i>Thermal Science</i> , 2020, 24, 3555-3568.	1.1	4
42	The Micro-cogeneration and Emission Control and Related Utilization Field. <i>Lecture Notes in Energy</i> , 2017, , 795-834.	0.3	3
43	Field Performance of HVAC System Under Healthy and Faulty Conditions During the Summer: Preliminary Development of a Simulation Model Based on Artificial Neural Networks. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 183-196.	0.6	2
44	Parametric Analysis of a Solar Heating and Cooling System for an Italian Multi-Family House. <i>International Journal of Heat and Technology</i> , 2016, 34, S458-S464.	0.6	2
45	Dynamic Simulation of a Micro-Trigeneration System Serving an Italian Multi-Family House: Energy, Environmental and Economic Analyses. <i>International Journal of Heat and Technology</i> , 2016, 34, S295-S302.	0.6	2
46	Performance of Different Back-up Technologies for Micro-Scale Solar Hybrid District Heating Systems with Long-term Thermal Energy Storage. <i>Energy Procedia</i> , 2018, 149, 565-574.	1.8	1
47	A Solar Thermal Application for Mongolian Detached Houses: An Energy, Environmental, and Economic Analysis Based on Dynamic Simulations. <i>Buildings</i> , 2019, 9, 185.	3.1	1
48	Dynamic simulation of a micro-trigeneration system serving an Italian multi-family house: energy, environmental and economic analyses. <i>International Journal of Heat and Technology</i> , 2016, 34, S295-S302.	0.6	1