Sergio Sibilio

List of Publications by Year
in descending order

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88 papers	1,478 citations	304743 22 h-index	345221 36 g-index
90 all docs	90 docs citations	90 times ranked	1095 citing authors

#	Article	IF	Citations
1	Micro-combined heat and power in residential and light commercial applications. Applied Thermal Engineering, 2003, 23, 1247-1259.	6.0	152
2	Energy, environmental and economic dynamic performance assessment of different micro-cogeneration systems in a residential application. Applied Thermal Engineering, 2013, 59, 599-617.	6.0	73
3	Experimental analysis of microcogenerators based on different prime movers. Energy and Buildings, 2011, 43, 796-804.	6.7	66
4	Calibration and validation of a model for simulating thermal and electric performance of an internal combustion engine-based micro-cogeneration device. Applied Thermal Engineering, 2012, 45-46, 79-98.	6.0	63
5	Experimental results of a micro-trigeneration installation. Applied Thermal Engineering, 2012, 38, 78-90.	6.0	56
6	Thermo-economic sensitivity analysis by dynamic simulations of a small Italian solar district heating system with a seasonal borehole thermal energy storage. Energy, 2018, 143, 757-771.	8.8	55
7	Experimental analysis of micro-cogeneration units based on reciprocating internal combustion engine. Energy and Buildings, 2006, 38, 1417-1422.	6.7	52
8	Building-integrated trigeneration system: Energy, environmental and economic dynamic performance assessment for Italian residential applications. Renewable and Sustainable Energy Reviews, 2017, 68, 920-933.	16.4	41
9	Dynamic performance assessment of a residential building-integrated cogeneration system under different boundary conditions. Part I: Energy analysis. Energy Conversion and Management, 2014, 79, 731-748.	9.2	39
10	Smart thermal grid with integration of distributed and centralized solar energy systems. Energy, 2017, 122, 471-481.	8.8	39
11	Effects of solar field design on the energy, environmental and economic performance of a solar district heating network serving Italian residential and school buildings. Renewable Energy, 2019, 143, 596-610.	8.9	39
12	Virtual Reality for Smart Urban Lighting Design: Review, Applications and Opportunities. Energies, 2020, 13, 3809.	3.1	36
13	Energy, economic and environmental performance simulation of a hybrid renewable microgeneration system with neural network predictive control. AEJ - Alexandria Engineering Journal, 2018, 57, 455-473.	6.4	33
14	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. Journal of Energy Storage, 2019, 25, 100889.	8.1	33
15	Performance assessment of a micro-cogeneration system under realistic operating conditions. Energy Conversion and Management, 2013, 70, 149-162.	9.2	32
16	Energy performance of a micro-cogeneration device during transient and steady-state operation: Experiments and simulations. Applied Thermal Engineering, 2013, 52, 478-491.	6.0	32
17	Wearable Devices for Environmental Monitoring in the Built Environment: A Systematic Review. Sensors, 2021, 21, 4727.	3.8	32
18	Dynamic performance assessment of a building-integrated cogeneration system for an Italian residential application. Energy and Buildings, 2013, 64, 343-358.	6.7	31

#	Article	IF	Citations
19	Dynamic performance assessment of a residential building-integrated cogeneration system under different boundary conditions. Part II: Environmental and economic analyses. Energy Conversion and Management, 2014, 79, 749-770.	9.2	28
20	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. Renewable Energy, 2020, 154, 684-703.	8.9	28
21	A Review of Electrochromic Windows for Residential Applications. International Journal of Heat and Technology, 2016, 34, S481-S488.	0.6	28
22	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
23	Preliminary experimental characterization of a three-phase absorption heat pump. International Journal of Refrigeration, 2013, 36, 717-729.	3.4	22
24	Setting up a CCD photometer for lighting research and design. Building and Environment, 2002, 37, 1099-1106.	6.9	21
25	Experimental analysis of a micro-trigeneration system composed of a micro-cogenerator coupled with an electric chiller. Applied Thermal Engineering, 2014, 73, 1309-1322.	6.0	21
26	Retrofitting Solutions for Energy Saving in a Historical Building Lighting System. Energy Procedia, 2015, 78, 2669-2674.	1.8	21
27	Energy, Environmental and Economic Effects of Electric Vehicle Charging on the Performance of a Residential Building-integrated Micro-trigeneration System. Energy Procedia, 2017, 111, 699-709.	1.8	21
28	Energy and Economic Evaluation of Retrofit Actions on an Existing Historical Building in the South of Italy by Using a Dynamic Simulation Software. Energy Procedia, 2015, 78, 741-746.	1.8	18
29	Experimental Calibration and Validation of a Simulation Model for Fault Detection of HVAC Systems and Application to a Case Study. Energies, 2020, 13, 3948.	3.1	18
30	Assessment of micro-cogeneration potential for domestic trigeneration. International Journal of Environmental Technology and Management, 2007, 7, 147.	0.2	17
31	Sky luminance models: Sensitivity to sky-dome subdivision. Lighting Research and Technology, 1996, 28, 131-140.	2.7	16
32	Thermal model validation of an electric-driven smart window through experimental data and evaluation of the impact on a case study. Building and Environment, 2020, 181, 107134.	6.9	16
33	Electric-driven windows for historical buildings retrofit: Energy and visual sensitivity analysis for different control logics. Journal of Building Engineering, 2020, 31, 101398.	3.4	16
34	Influence of climatic conditions and control logic on NOx and CO emissions of a micro-cogeneration unit serving an Italian residential building. Applied Thermal Engineering, 2014, 71, 858-871.	6.0	14
35	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. Thermal Science and Engineering Progress, 2020, 19, 100591.	2.7	14
36	A calibration methodology for light sources aimed at using immersive virtual reality game engine as a tool for lighting design in buildings. Journal of Building Engineering, 2022, 48, 103998.	3.4	13

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37	Healthy and Faulty Experimental Performance of a Typical HVAC System under Italian Climatic Conditions: Artificial Neural Network-Based Model and Fault Impact Assessment. Energies, 2021, 14, 5362.	3.1	12
38	Evaluation of integrated daylighting and electric lighting design projects: Lessons learned from international case studies. Energy and Buildings, 2022, 268, 112191.	6.7	12
39	Optimum performance of heat engine-driven heat pumps: A finite-time approach. Energy Conversion and Management, 1997, 38, 401-413.	9.2	11
40	Effectiveness of low-cost non-invasive solutions for daylight and electric lighting integration to improve energy efficiency in historical buildings. Energy and Buildings, 2022, 270, 112281.	6.7	11
41	Yearly operation of a building-integrated microcogeneration system in south Italy: energy and economic analyses. International Journal of Low-Carbon Technologies, 2014, 9, 331-346.	2.6	10
42	Energy Performances Assessment of Extruded and 3D Printed Polymers Integrated into Building Envelopes for a South Italian Case Study. Buildings, 2021, 11, 141.	3.1	10
43	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
44	Energy performance of PVC-Coated polyester fabric as novel material for the building envelope: Model validation and a refurbishment case study. Journal of Building Engineering, 2021, 41, 102437.	3.4	9
45	Passive Strategies for Building Retrofitting: Performances Analysis and Incentive Policies for the Iranian Scenario. Energies, 2022, 15, 1628.	3.1	9
46	Energy, Environmental and Economic Dynamic Simulation of a Micro-Cogeneration System Serving an Italian Multi-Family House. Energy Procedia, 2015, 78, 1141-1146.	1.8	8
47	Daylighting Contribution for Energy Saving in a Historical Building. Energy Procedia, 2015, 78, 1257-1262.	1.8	8
48	Model Analysis of Solar Thermal System with the Effect of Dust Deposition on the Collectors. Energies, 2018, 11, 1795.	3.1	8
49	Integration of Micro-Cogeneration Units and Electric Storages into a Micro-Scale Residential Solar District Heating System Operating with a Seasonal Thermal Storage. Energies, 2020, 13, 5456.	3.1	8
50	De-Light: a software tool for the evaluation of direct daylighting illuminances both indoors and outdoorsâ€"comparison with Superlite 2.0 and Lumen Micro 7.1.. Building and Environment, 2000, 35, 281-295.	6.9	7
51	Downstream from calcium signalling: mitochondria, vacuoles and pancreatic acinar cell damage. Acta Physiologica, 2009, 195, 161-169.	3.8	7
52	Field test of a small-size gas engine driven heat pump in an office application: first results. International Journal of Ambient Energy, 1995, 16, 183-191.	2.5	6
53	Calibration procedures of a ccd camera for photometric measurements. , 0, , .		6
54	Low-Cost Thermohygrometers to Assess Thermal Comfort in the Built Environment: A Laboratory Evaluation of Their Measurement Performance. Buildings, 2022, 12, 579.	3.1	6

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55	Energy performance of a residential building-integrated micro-cogeneration system upon varying thermal load and control logic. International Journal of Low-Carbon Technologies, 2013, , ctt075.	2.6	5
56	Daylighting contribution in interior lighting: Experimental verification of software simulation results. Lighting Research and Technology, 1994, 26, 99-105.	2.7	4
57	Parametric Analysis of Solar Heating and Cooling Systems for Residential Applications. Heat Transfer Engineering, 2020, 41, 1052-1074.	1.9	4
58	Energy, Environmental and Economic Performance of a Micro-trigeneration System upon Varying the Electric Vehicle Charging Profiles. Journal of Sustainable Development of Energy, Water and Environment Systems, 2017, 5, 309-331.	1.9	4
59	Parametric Analysis of a Solar Heating and Cooling System for an Italian Multi-Family House. International Journal of Heat and Technology, 2016, 34, S458-S464.	0.6	4
60	Dynamic simulation of a solar heating and cooling system including a seasonal storage serving a small Italian residential district. Thermal Science, 2020, 24, 3555-3568.	1.1	4
61	Videography for sky luminance distribution measurement. Lighting Research and Technology, 1997, 29, 40-46.	2.7	3
62	The Micro-cogeneration and Emission Control and Related Utilization Field. Lecture Notes in Energy, 2017, , 795-834.	0.3	3
63	3-E Analysis of a Heat Pump Driven by a Micro-Cogenerator. , 2005, , .		3
64	Immersive virtual reality as a tool for lighting design: applications and opportunities. Journal of Physics: Conference Series, 2021, 2042, 012125.	0.4	3
65	Experimental Analysis of Small Scale Cogenerators Based on Natural Gas Fired Reciprocating Internal Combustion Engine. , 2010, , .		2
66	Field Performance of HVAC System Under Healthy and Faulty Conditions During the Summer: Preliminary Development of a Simulation Model Based on Artificial Neural Networks. Smart Innovation, Systems and Technologies, 2022, , 183-196.	0.6	2
67	Cogeneration for Energy Saving in Household Applications. , 2001, , 210-221.		2
68	Field analysis of residential engine driven natural gas heat pump in an office application. , 1993, , 317-324.		2
69	A Review of Fault Detection and Diagnosis Methodologies for Air-Handling Units. Global Journal of Energy Technology Research Updates, 2019, 6, 26-40.	0.2	2
70	Parametric Analysis of a Solar Heating and Cooling System for an Italian Multi-Family House. International Journal of Heat and Technology, 2016, 34, S458-S464.	0.6	2
71	Dynamic Simulation of a Micro-Trigeneration System Serving an Italian Multi-Family House: Energy, Environmental and Economic Analyses. International Journal of Heat and Technology, 2016, 34, S295-S302.	0.6	2
72	Preliminary symptoms assessment of typical faults related to the fans and humidifiers of HVAC systems based on experimental data collected during Italian summer and winter. IOP Conference Series: Earth and Environmental Science, 2021, 897, 012009.	0.3	2

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73	Performance of Different Back-up Technologies for Micro-Scale Solar Hybrid District Heating Systems with Long-term Thermal Energy Storage. Energy Procedia, 2018, 149, 565-574.	1.8	1
74	A Solar Thermal Application for Mongolian Detached Houses: An Energy, Environmental, and Economic Analysis Based on Dynamic Simulations. Buildings, 2019, 9, 185.	3.1	1
75	Improving the Passive Energy Performance of the Buildingsâ€™ Envelope in the Southern European Area: A Study on the Integration of a Tensile Material. Tecnica Italiana, 2021, 65, 345-352.	0.2	1
76	Dynamic simulation of a micro-trigeneration system serving an Italian multi-family house: energy, environmental and economic analyses. International Journal of Heat and Technology, 2016, 34, S295-S302.	0.6	1
77	Low-cost smart solutions for daylight and electric lighting integration in historical buildings. Journal of Physics: Conference Series, 2021, 2069, 012157.	0.4	1
78	A software tool for user-friendly interface with PC Superlite 2.0. International Journal of Ambient Energy, 1996, 17, 185-192.	2.5	0
79	Influence of Climatic Conditions on Dynamic Performance of Solar Hybrid Heating and Cooling Systems Integrating Seasonal Borehole Thermal Energy Storages: Application to School Buildings in the Campania Region of Italy. Tecnica Italiana, 2021, 65, 187-195.	0.2	0
80	Gas Driven Micro-Cogenerator Incorporating Heat Pump: Exergetic, Economic and Environmental Analysis. , 2006, , .		0
81	SOLAR HEAT GAIN BY AN EQUIPPED WINDOW. , 1988, , 3520-3523.		0
82	Thermal Performance of an Electric-Driven Smart Window: Experiments in a Full-Scale Test Room and Simulation Model. , 2018, , .		0
83	Development of an Electric-Driven Smart Window Model for Visual Comfort Assessment. , 2018, , .		0
84	Optimal Configuration of a Solar Heating System with Seasonal Thermal Energy Storage Serving a Micro-scale Italian Residential District: Energy, Environmental and Economic Analyses. Tecnica Italiana, 2020, 64, 149-158.	0.2	0
85	Architectural Valorization: Lighting Design Solution for the Bell Tower of â€œSan Pasquale a Chiaiaâ€• Church. IOP Conference Series: Materials Science and Engineering, 2021, 1203, 022082.	0.6	0
86	Lighting Solutions to Improve the Valorisation and Fruition of the Parque del Retiro in Madrid. IOP Conference Series: Materials Science and Engineering, 2021, 1203, 022083.	0.6	0
87	Dynamic Performance of a Solar Hybrid Heating Network Integrated with a Micro-Cogeneration Unit Serving a Small-Scale Residential District including Electric Vehicles. , 0, , .		0
88	Double-Skin Facades With Semi-Transparent Modules For Building Retrofit Actions: Energy And Visual Performances. , 0, , .		0