

# Sergio Sibilio

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

1,478  
citations

304602

22  
h-index

345118

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. <i>Applied Thermal Engineering</i> , 2003, 23, 1247-1259.	3.0	152
2	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.	3.0	73
3	Experimental analysis of microgenerators based on different prime movers. <i>Energy and Buildings</i> , 2011, 43, 796-804.	3.1	66
4	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.	3.0	63
5	Experimental results of a micro-trigeneration installation. <i>Applied Thermal Engineering</i> , 2012, 38, 78-90.	3.0	56
6	Thermo-economic sensitivity analysis by dynamic simulations of a small Italian solar district heating system with a seasonal borehole thermal energy storage. <i>Energy</i> , 2018, 143, 757-771.	4.5	55
7	Experimental analysis of micro-cogeneration units based on reciprocating internal combustion engine. <i>Energy and Buildings</i> , 2006, 38, 1417-1422.	3.1	52
8	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.	8.2	41
9	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.	4.4	39
10	Smart thermal grid with integration of distributed and centralized solar energy systems. <i>Energy</i> , 2017, 122, 471-481.	4.5	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. <i>Renewable Energy</i> , 2019, 143, 596-610.	4.3	39
12	Virtual Reality for Smart Urban Lighting Design: Review, Applications and Opportunities. <i>Energies</i> , 2020, 13, 3809.	1.6	36
13	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.	3.4	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. <i>Journal of Energy Storage</i> , 2019, 25, 100889.	3.9	33
15	Performance assessment of a micro-cogeneration system under realistic operating conditions. <i>Energy Conversion and Management</i> , 2013, 70, 149-162.	4.4	32
16	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.	3.0	32
17	Wearable Devices for Environmental Monitoring in the Built Environment: A Systematic Review. <i>Sensors</i> , 2021, 21, 4727.	2.1	32
18	Dynamic performance assessment of a building-integrated cogeneration system for an Italian residential application. <i>Energy and Buildings</i> , 2013, 64, 343-358.	3.1	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. <i>Energy Conversion and Management</i> , 2014, 79, 749-770.	4.4	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. <i>Renewable Energy</i> , 2020, 154, 684-703.	4.3	28
21	A Review of Electrochromic Windows for Residential Applications. <i>International Journal of Heat and Technology</i> , 2016, 34, S481-S488.	0.3	28
22	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.	3.0	26
23	Preliminary experimental characterization of a three-phase absorption heat pump. <i>International Journal of Refrigeration</i> , 2013, 36, 717-729.	1.8	22
24	Setting up a CCD photometer for lighting research and design. <i>Building and Environment</i> , 2002, 37, 1099-1106.	3.0	21
25	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.	3.0	21
26	Retrofitting Solutions for Energy Saving in a Historical Building Lighting System. <i>Energy Procedia</i> , 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. <i>Energy Procedia</i> , 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. <i>Energy Procedia</i> , 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. <i>Energies</i> , 2020, 13, 3948.	1.6	18
30	Assessment of micro-cogeneration potential for domestic trigeneration. <i>International Journal of Environmental Technology and Management</i> , 2007, 7, 147.	0.1	17
31	Sky luminance models: Sensitivity to sky-dome subdivision. <i>Lighting Research and Technology</i> , 1996, 28, 131-140.	1.2	16
32	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.	3.0	16
33	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.	1.6	16
34	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.	3.0	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. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100591.	1.3	14
36	A calibration methodology for light sources aimed at using immersive virtual reality game engine as a tool for lighting design in buildings. <i>Journal of Building Engineering</i> , 2022, 48, 103998.	1.6	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. <i>Energies</i> , 2021, 14, 5362.	1.6	12
38	Evaluation of integrated daylighting and electric lighting design projects: Lessons learned from international case studies. <i>Energy and Buildings</i> , 2022, 268, 112191.	3.1	12
39	Optimum performance of heat engine-driven heat pumps: A finite-time approach. <i>Energy Conversion and Management</i> , 1997, 38, 401-413.	4.4	11
40	Effectiveness of low-cost non-invasive solutions for daylight and electric lighting integration to improve energy efficiency in historical buildings. <i>Energy and Buildings</i> , 2022, 270, 112281.	3.1	11
41	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.	1.2	10
42	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.	1.4	10
43	A metrological analysis of the in-situ evaluation of the performance of a gas engine-driven heat pump. Measurement: <i>Journal of the International Measurement Confederation</i> , 1995, 16, 209-217.	2.5	9
44	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.	1.6	9
45	Passive Strategies for Building Retrofitting: Performances Analysis and Incentive Policies for the Iranian Scenario. <i>Energies</i> , 2022, 15, 1628.	1.6	9
46	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
47	Daylighting Contribution for Energy Saving in a Historical Building. <i>Energy Procedia</i> , 2015, 78, 1257-1262.	1.8	8
48	Model Analysis of Solar Thermal System with the Effect of Dust Deposition on the Collectors. <i>Energies</i> , 2018, 11, 1795.	1.6	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. <i>Energies</i> , 2020, 13, 5456.	1.6	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.. <i>Building and Environment</i> , 2000, 35, 281-295.	3.0	7
51	Downstream from calcium signalling: mitochondria, vacuoles and pancreatic acinar cell damage. <i>Acta Physiologica</i> , 2009, 195, 161-169.	1.8	7
52	Field test of a small-size gas engine driven heat pump in an office application: first results. <i>International Journal of Ambient Energy</i> , 1995, 16, 183-191.	1.4	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. <i>Buildings</i> , 2022, 12, 579.	1.4	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.	1.2	5
56	Daylighting contribution in interior lighting: Experimental verification of software simulation results. Lighting Research and Technology, 1994, 26, 99-105.	1.2	4
57	Parametric Analysis of Solar Heating and Cooling Systems for Residential Applications. Heat Transfer Engineering, 2020, 41, 1052-1074.	1.2	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.	0.9	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.	0.3	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.	0.5	4
61	Videography for sky luminance distribution measurement. Lighting Research and Technology, 1997, 29, 40-46.	1.2	3
62	The Micro-cogeneration and Emission Control and Related Utilization Field. Lecture Notes in Energy, 2017, , 795-834.	0.2	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.	0.3	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.	0.5	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.	0.3	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.	0.3	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.	0.2	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. <i>Energy Procedia</i> , 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. <i>Buildings</i> , 2019, 9, 185.	1.4	1
75	Improving the Passive Energy Performance of the Buildings' Envelope in the Southern European Area: A Study on the Integration of a Tensile Material. <i>Tecnica Italiana</i> , 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. <i>International Journal of Heat and Technology</i> , 2016, 34, S295-S302.	0.3	1
77	Low-cost smart solutions for daylight and electric lighting integration in historical buildings. <i>Journal of Physics: Conference Series</i> , 2021, 2069, 012157.	0.3	1
78	A software tool for user-friendly interface with PC Superlite 2.0. <i>International Journal of Ambient Energy</i> , 1996, 17, 185-192.	1.4	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. <i>Tecnica Italiana</i> , 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. <i>Tecnica Italiana</i> , 2020, 64, 149-158.	0.2	0
85	Architectural Valorization: Lighting Design Solution for the Bell Tower of 'San Pasquale a Chiaia' Church. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1203, 022082.	0.3	0
86	Lighting Solutions to Improve the Valorisation and Fruition of the Parque del Retiro in Madrid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1203, 022083.	0.3	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