

# Sergio Sibilio

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	Passive Strategies for Building Retrofitting: Performances Analysis and Incentive Policies for the Iranian Scenario. Energies, 2022, 15, 1628.	3.1	9
4	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
5	Evaluation of integrated daylighting and electric lighting design projects: Lessons learned from international case studies. Energy and Buildings, 2022, 268, 112191.	6.7	12
6	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
7	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
8	Wearable Devices for Environmental Monitoring in the Built Environment: A Systematic Review. Sensors, 2021, 21, 4727.	3.8	32
9	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
10	Improving the Passive Energy Performance of the Buildings' Envelope in the Southern European Area: A Study on the Integration of a Tensile Material. Tecnica Italiana, 2021, 65, 345-352.	0.2	1
11	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
12	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
13	Low-cost smart solutions for daylight and electric lighting integration in historical buildings. Journal of Physics: Conference Series, 2021, 2069, 012157.	0.4	1
14	Architectural Valorization: Lighting Design Solution for the Bell Tower of "San Pasquale a Chiaia" Church. IOP Conference Series: Materials Science and Engineering, 2021, 1203, 022082.	0.6	0
15	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
16	Immersive virtual reality as a tool for lighting design: applications and opportunities. Journal of Physics: Conference Series, 2021, 2042, 012125.	0.4	3
17	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
18	Parametric Analysis of Solar Heating and Cooling Systems for Residential Applications. Heat Transfer Engineering, 2020, 41, 1052-1074.	1.9	4

#	ARTICLE	IF	CITATIONS
19	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
20	Virtual Reality for Smart Urban Lighting Design: Review, Applications and Opportunities. <i>Energies</i> , 2020, 13, 3809.	3.1	36
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	A Review of Fault Detection and Diagnosis Methodologies for Air-Handling Units. <i>Global Journal of Energy Technology Research Updates</i> , 2019, 6, 26-40.	0.2	2
32	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
33	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
34	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
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	Thermal Performance of an Electric-Driven Smart Window: Experiments in a Full-Scale Test Room and Simulation Model. , 2018, , .		0

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37	Development of an Electric-Driven Smart Window Model for Visual Comfort Assessment. , 2018, , .		0
38	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
39	Smart thermal grid with integration of distributed and centralized solar energy systems. Energy, 2017, 122, 471-481.	8.8	39
40	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
41	The Micro-cogeneration and Emission Control and Related Utilization Field. Lecture Notes in Energy, 2017, , 795-834.	0.3	3
42	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
43	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
44	A Review of Electrochromic Windows for Residential Applications. International Journal of Heat and Technology, 2016, 34, S481-S488.	0.6	28
45	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
46	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
47	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
48	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
49	Retrofitting Solutions for Energy Saving in a Historical Building Lighting System. Energy Procedia, 2015, 78, 2669-2674.	1.8	21
50	Daylighting Contribution for Energy Saving in a Historical Building. Energy Procedia, 2015, 78, 1257-1262.	1.8	8
51	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
52	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
53	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
54	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

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55	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
56	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
57	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
58	Performance assessment of a micro-cogeneration system under realistic operating conditions. Energy Conversion and Management, 2013, 70, 149-162.	9.2	32
59	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
60	Dynamic performance assessment of a building-integrated cogeneration system for an Italian residential application. Energy and Buildings, 2013, 64, 343-358.	6.7	31
61	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
62	Preliminary experimental characterization of a three-phase absorption heat pump. International Journal of Refrigeration, 2013, 36, 717-729.	3.4	22
63	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
64	Experimental results of a micro-trigeneration installation. Applied Thermal Engineering, 2012, 38, 78-90.	6.0	56
65	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
66	Experimental analysis of microcogenerators based on different prime movers. Energy and Buildings, 2011, 43, 796-804.	6.7	66
67	Experimental Analysis of Small Scale Cogenerators Based on Natural Gas Fired Reciprocating Internal Combustion Engine. , 2010, , .		2
68	Downstream from calcium signalling: mitochondria, vacuoles and pancreatic acinar cell damage. Acta Physiologica, 2009, 195, 161-169.	3.8	7
69	Assessment of micro-cogeneration potential for domestic trigeneration. International Journal of Environmental Technology and Management, 2007, 7, 147.	0.2	17
70	Experimental analysis of micro-cogeneration units based on reciprocating internal combustion engine. Energy and Buildings, 2006, 38, 1417-1422.	6.7	52
71	Gas Driven Micro-Cogenerator Incorporating Heat Pump: Exergetic, Economic and Environmental Analysis. , 2006, , .		0
72	3-E Analysis of a Heat Pump Driven by a Micro-Cogenerator. , 2005, , .		3

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73	Micro-combined heat and power in residential and light commercial applications. Applied Thermal Engineering, 2003, 23, 1247-1259.	6.0	152
74	Setting up a CCD photometer for lighting research and design. Building and Environment, 2002, 37, 1099-1106.	6.9	21
75	Cogeneration for Energy Saving in Household Applications. , 2001, , 210-221.		2
76	De-Light: a software tool for the evaluation of direct daylighting illuminances both indoors and outdoors” comparison with Superlite 2.0 and Lumen Micro 7.1.. Building and Environment, 2000, 35, 281-295.	6.9	7
77	Videography for sky luminance distribution measurement. Lighting Research and Technology, 1997, 29, 40-46.	2.7	3
78	Optimum performance of heat engine-driven heat pumps: A finite-time approach. Energy Conversion and Management, 1997, 38, 401-413.	9.2	11
79	A software tool for user-friendly interface with PC Superlite 2.0. International Journal of Ambient Energy, 1996, 17, 185-192.	2.5	0
80	Sky luminance models: Sensitivity to sky-dome subdivision. Lighting Research and Technology, 1996, 28, 131-140.	2.7	16
81	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
82	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
83	Daylighting contribution in interior lighting: Experimental verification of software simulation results. Lighting Research and Technology, 1994, 26, 99-105.	2.7	4
84	Field analysis of residential engine driven natural gas heat pump in an office application. , 1993, , 317-324.		2
85	SOLAR HEAT GAIN BY AN EQUIPPED WINDOW. , 1988, , 3520-3523.		0
86	Calibration procedures of a ccd camera for photometric measurements. , 0, , .		6
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