

# Cinzia Buratti

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110  
papers

3,077  
citations

31  
h-index

50  
g-index

118  
ext. papers

3,617  
ext. citations

5.2  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
110	Vegetal Fiber Additives in Mortars: Experimental Characterization of Thermal and Acoustic Properties. <i>Sustainability</i> , <b>2022</b> , 14, 1260	3.6	1
109	Environmental Impact of Beef Production Systems. <i>Green Energy and Technology</i> , <b>2022</b> , 59-91	0.6	
108	Gypsum-plasters mixed with polystyrene balls for building insulation: Experimental characterization and energy performance. <i>Construction and Building Materials</i> , <b>2021</b> , 283, 122625	6.7	5
107	Thermal-energy and lighting performance of aerogel glazings with hollow silica: Field experimental study and dynamic simulations. <i>Energy and Buildings</i> , <b>2021</b> , 243, 110999	7	5
106	Aerogel glazing systems for building applications: A review. <i>Energy and Buildings</i> , <b>2021</b> , 231, 110587	7	25
105	Development of a Decisional Procedure Based on Fuzzy Logic for the Energy Retrofitting of Buildings. <i>Sustainability</i> , <b>2021</b> , 13, 9318	3.6	0
104	Eco-Sustainable Wood Waste Panels for Building Applications: Influence of Different Species and Assembling Techniques on Thermal, Acoustic, and Environmental Performance. <i>Buildings</i> , <b>2021</b> , 11, 361	3.2	3
103	Towards a holistic approach to indoor environmental quality assessment: Weighting schemes to combine effects of multiple environmental factors. <i>Energy and Buildings</i> , <b>2021</b> , 245, 111056	7	18
102	Sustainable Panels Made with Industrial and Agricultural Waste: Thermal and Environmental Critical Analysis of the Experimental Results. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 494	2.6	4
101	Mean Age of Air in Natural Ventilated Buildings: Experimental Evaluation and CO2 Prediction by Artificial Neural Networks. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1730	2.6	8
100	A simplified method for kinetic modeling of coffee silver skin pyrolysis by coupling pseudo-components peaks deconvolution analysis and model free-isoconversional methods. <i>Fuel</i> , <b>2020</b> , 278, 118260	7.1	25
99	Comparative analysis of bioclimatic zones, energy consumption, CO2 emission and life cycle cost of residential and commercial buildings located in a tropical region: A case study of the big island of Madagascar. <i>Energy</i> , <b>2020</b> , 202, 117754	7.9	14
98	Experimental characterization of the color rendering properties of transparent monolithic aerogel. <i>Solar Energy</i> , <b>2020</b> , 205, 183-191	6.8	3
97	Water vapour permeability of innovative building materials from different waste. <i>Materials Letters</i> , <b>2020</b> , 265, 127459	3.3	10
96	Field Experimental Study on Energy Performance of Aerogel Glazings with Hollow Silica: Preliminary Results in Mid-Season Conditions. <i>Smart Innovation, Systems and Technologies</i> , <b>2020</b> , 185-197	0.5	3
95	A method to assess lighting quality in educational rooms using analytic hierarchy process. <i>Building and Environment</i> , <b>2020</b> , 168, 106501	6.5	37
94	An innovative straw bale wall package for sustainable buildings: experimental characterization, energy and environmental performance assessment. <i>Energy and Buildings</i> , <b>2020</b> , 208, 109636	7	20

93	Artificial Neural Network for the Thermal Comfort Index Prediction: Development of a New Simplified Algorithm. <i>Energies</i> , <b>2020</b> , 13, 4500	3.1	9
92	Production of eco-sustainable insulating panels by recovering wood waste: fabrication and preliminary experimental characterization of thermal and acoustic properties. <i>E3S Web of Conferences</i> , <b>2020</b> , 197, 08021	0.5	0
91	Acid Hydrolysis of Olive Tree Leaves: Preliminary Study towards Biochemical Conversion. <i>Processes</i> , <b>2020</b> , 8, 886	2.9	3
90	Recycled leather cutting waste-based boards: thermal, acoustic, hygrothermal and ignitability properties. <i>Journal of Material Cycles and Waste Management</i> , <b>2020</b> , 22, 1339-1351	3.4	3
89	Impact of storage on energy performance of laricio pine wood chips: A case study in Italy. <i>Industrial Crops and Products</i> , <b>2019</b> , 131, 301-306	5.9	1
88	Optical and visual experimental characterization of a glazing system with monolithic silica aerogel. <i>Solar Energy</i> , <b>2019</b> , 183, 30-39	6.8	31
87	Laboratory and pilot scale characterization of granular aerogel glazing systems. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109349	7	16
86	Characterization of Natural Gypsum Materials and Their Composites for Building Applications. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2443	2.6	12
85	Experimental and Numerical Energy Assessment of a Monolithic Aerogel Glazing Unit for Building Applications. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 5473	2.6	8
84	A multidisciplinary approach to the study of structural glass panels: Preliminary results <b>2019</b> ,		1
83	Fermentable sugars production from peach tree prunings: Response surface model optimization of NaOH alkaline pretreatment. <i>Biomass and Bioenergy</i> , <b>2018</b> , 112, 128-137	5.3	10
82	Optical, thermal, and energy performance of advanced polycarbonate systems with granular aerogel. <i>Energy and Buildings</i> , <b>2018</b> , 166, 407-417	7	26
81	Development and optimization of a new ventilated brick wall: CFD analysis and experimental validation. <i>Energy and Buildings</i> , <b>2018</b> , 168, 284-297	7	19
80	Rice husk panels for building applications: Thermal, acoustic and environmental characterization and comparison with other innovative recycled waste materials. <i>Construction and Building Materials</i> , <b>2018</b> , 171, 338-349	6.7	57
79	Optimization of torrefaction conditions of coffee industry residues using desirability function approach. <i>Waste Management</i> , <b>2018</b> , 73, 523-534	8.6	43
78	Optimization of bioethanol production from steam exploded hornbeam wood ( <i>Ostrya carpinifolia</i> ) by enzymatic hydrolysis. <i>Renewable Energy</i> , <b>2018</b> , 124, 136-143	8.1	9
77	Environmental quality of university classrooms: Subjective and objective evaluation of the thermal, acoustic, and lighting comfort conditions. <i>Building and Environment</i> , <b>2018</b> , 127, 23-36	6.5	83
76	A new index combining thermal, acoustic, and visual comfort of moderate environments in temperate climates. <i>Building and Environment</i> , <b>2018</b> , 139, 27-37	6.5	51

75	Adaptive approach of thermal comfort and correlation between experimental data and mathematical model in some schools and traditional buildings of Madagascar under natural ventilation. <i>Sustainable Cities and Society</i> , <b>2018</b> , 41, 666-678	10.1	22
74	An innovative multilayer wall composed of natural materials: experimental characterization of the thermal properties and comparison with other solutions. <i>Energy Procedia</i> , <b>2018</b> , 148, 892-899	2.3	5
73	Acoustic measurements on monolithic aerogel samples and application of the selected solutions to standard window systems. <i>Applied Acoustics</i> , <b>2018</b> , 142, 123-131	3.1	20
72	A detailed study of climate change and some vulnerabilities in Indian Ocean: A case of Madagascar island. <i>Sustainable Cities and Society</i> , <b>2018</b> , 41, 886-898	10.1	24
71	Thermal and Acoustic Properties of Aerogels: Preliminary Investigation of the Influence of Granule Size. <i>Energy Procedia</i> , <b>2017</b> , 111, 472-480	2.3	24
70	Environmental characterisation of coffee chaff, a new recycled material for building applications. <i>Construction and Building Materials</i> , <b>2017</b> , 147, 185-193	6.7	29
69	Pyrolysis of pellets made with biomass and glycerol: Kinetic analysis and evolved gas analysis. <i>Biomass and Bioenergy</i> , <b>2017</b> , 97, 11-19	5.3	39
68	Prediction Of Indoor Conditions And Thermal Comfort Using CFD Simulations: A Case Study Based On Experimental Data. <i>Energy Procedia</i> , <b>2017</b> , 126, 115-122	2.3	25
67	Statistical analysis of indoor parameters and subjective responses of building occupants in a hot region of Indian ocean; a case of Madagascar island. <i>Applied Energy</i> , <b>2017</b> , 208, 1562-1575	10.7	26
66	High Energy-Efficient Windows with Silica Aerogel for Building Refurbishment: Experimental Characterization and Preliminary Simulations in Different Climate Conditions. <i>Buildings</i> , <b>2017</b> , 7, 8	3.2	25
65	Aerogel-based materials for building applications: Influence of granule size on thermal and acoustic performance. <i>Energy and Buildings</i> , <b>2017</b> , 152, 472-482	7	63
64	Carbon footprint of conventional and organic beef production systems: An Italian case study. <i>Science of the Total Environment</i> , <b>2017</b> , 576, 129-137	10.2	46
63	Thermal degradation of driftwood: Determination of the concentration of sodium, calcium, magnesium, chlorine and sulfur containing compounds. <i>Waste Management</i> , <b>2017</b> , 60, 151-157	8.6	24
62	Preparation and characterization of polyurethane/silica aerogel nanocomposite materials. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	17
61	Application of a new 13-value thermal comfort scale to moderate environments. <i>Applied Energy</i> , <b>2016</b> , 180, 859-866	10.7	21
60	Masonry wall panels retrofitted with thermal-insulating GFRP-reinforced jacketing. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2016</b> , 49, 3957-3968	3.4	24
59	Thermal behaviour and kinetic study of the olive oil production chain residues and their mixtures during co-combustion. <i>Bioresource Technology</i> , <b>2016</b> , 214, 266-275	11	25
58	Design and monitoring of an innovative geothermal system including an underground heat-storage tank. <i>International Journal of Green Energy</i> , <b>2016</b> , 13, 822-830	3	11

57	Thermal Conductivity Measurements By Means of a New Small Hot-Box Apparatus: Manufacturing, Calibration and Preliminary Experimental Tests on Different Materials. <i>International Journal of Thermophysics</i> , <b>2016</b> , 37, 1	2.1	20
56	Nano and Biotech Based Materials for Energy Building Efficiency <b>2016</b> ,		13
55	Nanogel Windows for Energy Building Efficiency <b>2016</b> , 41-69		8
54	Aerogel Plasters for Building Energy Efficiency <b>2016</b> , 17-40		11
53	Driftwood Biomass in Italy: Estimation and Characterization. <i>Sustainability</i> , <b>2016</b> , 8, 725	3.6	5
52	Energy and Environmental Performance Analysis of Biomass-fuelled Combined Cooling and Heating System for Commercial Building Retrofit: An Italian Case Study. <i>Energy Procedia</i> , <b>2016</b> , 101, 376-383	2.3	5
51	Comparison of the Energy Performance of Existing Buildings by Means of Dynamic Simulations and Artificial Neural Networks. <i>Energy Procedia</i> , <b>2016</b> , 101, 176-183	2.3	13
50	Carbon Dioxide Removal with Tuff: Experimental Measurement of Adsorption Properties and Breakthrough Modeling Using CFD Approach. <i>Energy Procedia</i> , <b>2016</b> , 101, 392-399	2.3	6
49	Sustainable Panels with Recycled Materials for Building Applications: Environmental and Acoustic Characterization. <i>Energy Procedia</i> , <b>2016</b> , 101, 972-979	2.3	18
48	Mechanical characterization and thermal conductivity measurements using of a new 'small hot-box' apparatus: innovative insulating reinforced coatings analysis. <i>Journal of Building Engineering</i> , <b>2016</b> , 7, 63-70	5.2	14
47	Evaluation of thermal comfort in an historical Italian opera theatre by the calculation of the neutral comfort temperature. <i>Building and Environment</i> , <b>2016</b> , 102, 116-127	6.5	23
46	Thermogravimetric analysis of the behavior of sub-bituminous coal and cellulosic ethanol residue during co-combustion. <i>Bioresource Technology</i> , <b>2015</b> , 186, 154-162	11	55
45	Optimization of the steam explosion and enzymatic hydrolysis for sugars production from oak woods. <i>Bioresource Technology</i> , <b>2015</b> , 198, 470-7	11	13
44	Life Cycle Assessment of organic waste management strategies: an Italian case study. <i>Journal of Cleaner Production</i> , <b>2015</b> , 89, 125-136	10.3	61
43	Thermal Comfort Evaluation Within Non-residential Environments: Development of Artificial Neural Network by Using the Adaptive Approach Data. <i>Energy Procedia</i> , <b>2015</b> , 78, 2875-2880	2.3	16
42	Effect of Steam Explosion Pretreatment on Sugar Production by Enzymatic Hydrolysis of Olive Tree Pruning. <i>Energy Procedia</i> , <b>2015</b> , 81, 146-154	2.3	7
41	Thermal Behaviour and Energy Saving Evaluation of Innovative Reinforced Coatings. <i>Energy Procedia</i> , <b>2015</b> , 82, 480-485	2.3	3
40	Ethanol production from vineyard pruning residues with steam explosion pretreatment. <i>Environmental Progress and Sustainable Energy</i> , <b>2015</b> , 34, 802-809	2.5	29

39	Energy Performance Database of Building Heritage in the Region of Umbria, Central Italy. <i>Energies</i> , <b>2015</b> , 8, 7261-7278	3.1	13
38	Thermal comfort in the Fraschini theatre (Pavia, Italy): Correlation between data from questionnaires, measurements, and mathematical model. <i>Energy and Buildings</i> , <b>2015</b> , 99, 243-252	7	25
37	Thermal and Acoustic Performance Evaluation of New Basalt Fiber Insulation Panels for Buildings. <i>Energy Procedia</i> , <b>2015</b> , 78, 303-308	2.3	22
36	Preliminary Optimization of Alkaline Pretreatment for Ethanol Production from Vineyard Pruning. <i>Energy Procedia</i> , <b>2015</b> , 82, 389-394	2.3	27
35	The Experience of Training of Experts in Sustainable Development at the University of Perugia. <i>World Sustainability Series</i> , <b>2015</b> , 615-626	0.6	
34	Multipurpose characterization of glazing systems with silica aerogel: In-field experimental analysis of thermal-energy, lighting and acoustic performance. <i>Building and Environment</i> , <b>2014</b> , 81, 92-102	6.5	80
33	An original tool for checking energy performance and certification of buildings by means of Artificial Neural Networks. <i>Applied Energy</i> , <b>2014</b> , 120, 125-132	10.7	62
32	Effect of dynamic characteristics of building envelope on thermal-energy performance in winter conditions: In field experiment. <i>Energy and Buildings</i> , <b>2014</b> , 80, 218-230	7	45
31	Fa�ade noise abatement prediction: New spectrum adaptation terms measured in field in different road and railway traffic conditions. <i>Applied Acoustics</i> , <b>2014</b> , 76, 238-248	3.1	21
30	Development of Innovative Aerogel Based Plasters: Preliminary Thermal and Acoustic Performance Evaluation. <i>Sustainability</i> , <b>2014</b> , 6, 5839-5852	3.6	83
29	Building Behavior Simulation by Means of Artificial Neural Network in Summer Conditions. <i>Sustainability</i> , <b>2014</b> , 6, 5339-5353	3.6	15
28	Evolutionary Housing System: Refurbishment with new technologies and unsteady simulations of energy performance. <i>Energy and Buildings</i> , <b>2014</b> , 74, 173-181	7	30
27	HVAC systems testing and check: A simplified model to predict thermal comfort conditions in moderate environments. <i>Applied Energy</i> , <b>2013</b> , 104, 117-127	10.7	70
26	Wooden windows: Sound insulation evaluation by means of artificial neural networks. <i>Applied Acoustics</i> , <b>2013</b> , 74, 740-745	3.1	19
25	Assessment of GHG emissions of biomethane from energy cereal crops in Umbria, Italy. <i>Applied Energy</i> , <b>2013</b> , 108, 128-136	10.7	39
24	Unsteady simulation of energy performance and thermal comfort in non-residential buildings. <i>Building and Environment</i> , <b>2013</b> , 59, 482-491	6.5	66
23	Evaluation of Green Buildings' Overall Performance through in Situ Monitoring and Simulations. <i>Energies</i> , <b>2013</b> , 6, 6525-6547	3.1	34
22	Development of Innovative Heating and Cooling Systems Using Renewable Energy Sources for Non-Residential Buildings. <i>Energies</i> , <b>2013</b> , 6, 5114-5129	3.1	31

21	Nanogel Windows <b>2013</b> , 555-582		10
20	Silica nanogel for energy-efficient windows <b>2013</b> , 207-235		11
19	Assessment of the Performance of Road Markings in Urban Areas: The Outcomes of the CIVITAS RENAISSANCE Project. <i>Open Transportation Journal</i> , <b>2013</b> , 7, 7-19	0.7	6
18	A comparison of the European renewable energy directive default emission values with actual values from operating biodiesel facilities for sunflower, rape and soya oil seeds in Italy. <i>Biomass and Bioenergy</i> , <b>2012</b> , 47, 26-36	5.3	21
17	Experimental performance evaluation of aerogel glazing systems. <i>Applied Energy</i> , <b>2012</b> , 97, 430-437	10.7	141
16	Glazing systems with silica aerogel for energy savings in buildings. <i>Applied Energy</i> , <b>2012</b> , 98, 396-403	10.7	172
15	Application of artificial neural network to predict thermal transmittance of wooden windows. <i>Applied Energy</i> , <b>2012</b> , 98, 425-432	10.7	31
14	Thermal comfort in open plan offices in northern Italy: An adaptive approach. <i>Building and Environment</i> , <b>2012</b> , 56, 314-320	6.5	53
13	Anaerobic digestion of mechanically treated OFMSW: experimental data on biogas/methane production and residues characterization. <i>Bioresource Technology</i> , <b>2011</b> , 102, 8885-92	11	60
12	Mean age of air in a naturally ventilated office: Experimental data and simulations. <i>Energy and Buildings</i> , <b>2011</b> , 43, 2021-2027	7	58
11	Lighting and Energetic Characteristics of Transparent Insulating Materials: Experimental Data and Calculation. <i>Indoor and Built Environment</i> , <b>2011</b> , 20, 400-411	1.8	40
10	Life cycle assessment of biomass production: Development of a methodology to improve the environmental indicators and testing with fiber sorghum energy crop. <i>Biomass and Bioenergy</i> , <b>2010</b> , 34, 1513-1522	5.3	32
9	Life cycle assessment of biomass chains: Wood pellet from short rotation coppice using data measured on a real plant. <i>Biomass and Bioenergy</i> , <b>2010</b> , 34, 1796-1804	5.3	93
8	Adaptive analysis of thermal comfort in university classrooms: Correlation between experimental data and mathematical models. <i>Building and Environment</i> , <b>2009</b> , 44, 674-687	6.5	104
7	Biogas production from different substrates in an experimental Continuously Stirred Tank Reactor anaerobic digester. <i>Bioresource Technology</i> , <b>2009</b> , 100, 5783-9	11	100
6	Diagnosis of internal combustion engine through vibration and acoustic pressure non-intrusive measurements. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 1707-1713	5.8	60
5	Indoor Noise Reduction Index with an open window (Part II). <i>Applied Acoustics</i> , <b>2006</b> , 67, 383-401	3.1	8
4	Sound intensity investigation of the acoustics performances of high insulation ventilating windows integrated with rolling shutter boxes. <i>Applied Acoustics</i> , <b>2005</b> , 66, 1088-1101	3.1	16

3	Indoor noise reduction index with open window. <i>Applied Acoustics</i> , <b>2002</b> , 63, 431-451	3.1	22
2	Analysis of the Thermal Stress and Strain on Arrigo Fiammingo's Artistic Window in the Cathedral of Perugia. <i>Journal of Heat Transfer</i> , <b>2001</b> , 123, 1173-1180	1.8	1
1	Solar heat transformation alternatives. <i>International Journal of Ambient Energy</i> , <b>1994</b> , 15, 115-122	2	