Cinzia Buratti

List of Publications by Year
in descending order

116	4,174	109137	138251
papers	citations	35 h-index	58 g-index

118	118	118	3966
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glazing systems with silica aerogel for energy savings in buildings. Applied Energy, 2012, 98, 396-403.	5.1	199
2	Experimental performance evaluation of aerogel glazing systems. Applied Energy, 2012, 97, 430-437.	5.1	160
3	Environmental quality of university classrooms: Subjective and objective evaluation of the thermal, acoustic, and lighting comfort conditions. Building and Environment, 2018, 127, 23-36.	3.0	137
4	Adaptive analysis of thermal comfort in university classrooms: Correlation between experimental data and mathematical models. Building and Environment, 2009, 44, 674-687.	3.0	128
5	Biogas production from different substrates in an experimental Continuously Stirred Tank Reactor anaerobic digester. Bioresource Technology, 2009, 100, 5783-5789.	4.8	122
6	Life cycle assessment of biomass chains: Wood pellet from short rotation coppice using data measured on a real plant. Biomass and Bioenergy, 2010, 34, 1796-1804.	2.9	103
7	Aerogel-based materials for building applications: Influence of granule size on thermal and acoustic performance. Energy and Buildings, 2017, 152, 472-482.	3.1	100
8	Development of Innovative Aerogel Based Plasters: Preliminary Thermal and Acoustic Performance Evaluation. Sustainability, 2014, 6, 5839-5852.	1.6	95
9	Multipurpose characterization of glazing systems with silica aerogel: In-field experimental analysis of thermal-energy, lighting and acoustic performance. Building and Environment, 2014, 81, 92-102.	3.0	94
10	Rice husk panels for building applications: Thermal, acoustic and environmental characterization and comparison with other innovative recycled waste materials. Construction and Building Materials, 2018, 171, 338-349.	3.2	94
11	HVAC systems testing and check: A simplified model to predict thermal comfort conditions in moderate environments. Applied Energy, 2013, 104, 117-127.	5.1	85
12	A new index combining thermal, acoustic, and visual comfort of moderate environments in temperate climates. Building and Environment, 2018, 139, 27-37.	3.0	83
13	Unsteady simulation of energy performance and thermal comfort in non-residential buildings. Building and Environment, 2013, 59, 482-491.	3.0	82
14	Diagnosis of internal combustion engine through vibration and acoustic pressure non-intrusive measurements. Applied Thermal Engineering, 2009, 29, 1707-1713.	3.0	77
15	An original tool for checking energy performance and certification of buildings by means of Artificial Neural Networks. Applied Energy, 2014, 120, 125-132.	5.1	77
16	Mean age of air in a naturally ventilated office: Experimental data and simulations. Energy and Buildings, 2011, 43, 2021-2027.	3.1	76
17	Life Cycle Assessment of organic waste management strategies: anÂItalian case study. Journal of Cleaner Production, 2015, 89, 125-136.	4.6	72
18	Aerogel glazing systems for building applications: A review. Energy and Buildings, 2021, 231, 110587.	3.1	72

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19	Anaerobic digestion of mechanically treated OFMSW: Experimental data on biogas/methane production and residues characterization. Bioresource Technology, 2011, 102, 8885-8892.	4.8	66
20	Carbon footprint of conventional and organic beef production systems: An Italian case study. Science of the Total Environment, 2017, 576, 129-137.	3.9	66
21	A simplified method for kinetic modeling of coffee silver skin pyrolysis by coupling pseudo-components peaks deconvolution analysis and model free-isoconversional methods. Fuel, 2020, 278, 118260.	3.4	66
22	Thermogravimetric analysis of the behavior of sub-bituminous coal and cellulosic ethanol residue during co-combustion. Bioresource Technology, 2015, 186, 154-162.	4.8	65
23	Optimization of torrefaction conditions of coffee industry residues using desirability function approach. Waste Management, 2018, 73, 523-534.	3.7	61
24	Thermal comfort in open plan offices in northern Italy: An adaptive approach. Building and Environment, 2012, 56, 314-320.	3.0	59
25	A method to assess lighting quality in educational rooms using analytic hierarchy process. Building and Environment, 2020, 168, 106501.	3.0	58
26	Effect of dynamic characteristics of building envelope on thermal-energy performance in winter conditions: In field experiment. Energy and Buildings, 2014, 80, 218-230.	3.1	57
27	Optical and visual experimental characterization of a glazing system with monolithic silica aerogel. Solar Energy, 2019, 183, 30-39.	2.9	50
28	Pyrolysis of pellets made with biomass and glycerol: Kinetic analysis and evolved gas analysis. Biomass and Bioenergy, 2017, 97, 11-19.	2.9	49
29	Assessment of GHG emissions of biomethane from energy cereal crops in Umbria, Italy. Applied Energy, 2013, 108, 128-136.	5.1	48
30	Evaluation of Green Buildingsâ€™ Overall Performance through in Situ Monitoring and Simulations. Energies, 2013, 6, 6525-6547.	1.6	45
31	An innovative straw bale wall package for sustainable buildings: experimental characterization, energy and environmental performance assessment. Energy and Buildings, 2020, 208, 109636.	3.1	44
32	Lighting and Energetic Characteristics of Transparent Insulating Materials: Experimental Data and Calculation. Indoor and Built Environment, 2011, 20, 400-411.	1.5	42
33	Environmental characterisation of coffee chaff, a new recycled material for building applications. Construction and Building Materials, 2017, 147, 185-193.	3.2	41
34	Towards a holistic approach to indoor environmental quality assessment: Weighting schemes to combine effects of multiple environmental factors. Energy and Buildings, 2021, 245, 111056.	3.1	39
35	Prediction Of Indoor Conditions And Thermal Comfort Using CFD Simulations: A Case Study Based On Experimental Data. Energy Procedia, 2017, 126, 115-122.	1.8	38
36	A detailed study of climate change and some vulnerabilities in Indian Ocean: A case of Madagascar island. Sustainable Cities and Society, 2018, 41, 886-898.	5.1	37

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37	Thermal and Acoustic Properties of Aerogels: Preliminary Investigation of the Influence of Granule Size. Energy Procedia, 2017, 111, 472-480.	1.8	36
38	Thermal and Acoustic Performance Evaluation of New Basalt Fiber Insulation Panels for Buildings. Energy Procedia, 2015, 78, 303-308.	1.8	35
39	Masonry wall panels retrofitted with thermal-insulating GFRP-reinforced jacketing. Materials and Structures/Materiaux Et Constructions, 2016, 49, 3957-3968.	1.3	35
40	Optical, thermal, and energy performance of advanced polycarbonate systems with granular aerogel. Energy and Buildings, 2018, 166, 407-417.	3.1	35
41	Life cycle assessment of biomass production: Development of a methodology to improve the environmental indicators and testing with fiber sorghum energy crop. Biomass and Bioenergy, 2010, 34, 1513-1522.	2.9	34
42	Application of artificial neural network to predict thermal transmittance of wooden windows. Applied Energy, 2012, 98, 425-432.	5.1	34
43	Characterization of Natural Gypsum Materials and Their Composites for Building Applications. Applied Sciences (Switzerland), 2019, 9, 2443.	1.3	34
44	Development of Innovative Heating and Cooling Systems Using Renewable Energy Sources for Non-Residential Buildings. Energies, 2013, 6, 5114-5129.	1.6	33
45	Adaptive approach of thermal comfort and correlation between experimental data and mathematical model in some schools and traditional buildings of Madagascar under natural ventilation. Sustainable Cities and Society, 2018, 41, 666-678.	5.1	33
46	Ethanol production from vineyard pruning residues with steam explosion pretreatment. Environmental Progress and Sustainable Energy, 2015, 34, 802-809.	1.3	32
47	Preliminary Optimization of Alkaline Pretreatment for Ethanol Production from Vineyard Pruning. Energy Procedia, 2015, 82, 389-394.	1.8	32
48	Thermal Conductivity Measurements By Means of a New â€˜Small Hot-Boxâ€™ Apparatus: Manufacturing, Calibration and Preliminary Experimental Tests on Different Materials. International Journal of Thermophysics, 2016, 37, 1.	1.0	32
49	Thermal degradation of driftwood: Determination of the concentration of sodium, calcium, magnesium, chlorine and sulfur containing compounds. Waste Management, 2017, 60, 151-157.	3.7	32
50	Evolutive Housing System: Refurbishment with new technologies and unsteady simulations of energy performance. Energy and Buildings, 2014, 74, 173-181.	3.1	31
51	High Energy-Efficient Windows with Silica Aerogel for Building Refurbishment: Experimental Characterization and Preliminary Simulations in Different Climate Conditions. Buildings, 2017, 7, 8.	1.4	31
52	Acoustic measurements on monolithic aerogel samples and application of the selected solutions to standard window systems. Applied Acoustics, 2018, 142, 123-131.	1.7	31
53	Thermal behaviour and kinetic study of the olive oil production chain residues and their mixtures during co-combustion. Bioresource Technology, 2016, 214, 266-275.	4.8	30
54	Sustainable Panels with Recycled Materials for Building Applications: Environmental and Acoustic Characterization. Energy Procedia, 2016, 101, 972-979.	1.8	29

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55	Evaluation of thermal comfort in an historical Italian opera theatre by the calculation of the neutral comfort temperature. Building and Environment, 2016, 102, 116-127.	3.0	29
56	Application of a new 13-value thermal comfort scale to moderate environments. Applied Energy, 2016, 180, 859-866.	5.1	29
57	Statistical analysis of indoor parameters an subjective responses of building occupants in a hot region of Indian ocean; a case of Madagascar island. Applied Energy, 2017, 208, 1562-1575.	5.1	29
58	Preparation and characterization of polyurethane/silica aerogel nanocomposite materials. Journal of Applied Polymer Science, 2017, 134, .	1.3	29
59	Development and optimization of a new ventilated brick wall: CFD analysis and experimental validation. Energy and Buildings, 2018, 168, 284-297.	3.1	29
60	Thermal comfort in the Fraschini theatre (Pavia, Italy): Correlation between data from questionnaires, measurements, and mathematical model. Energy and Buildings, 2015, 99, 243-252.	3.1	28
61	Indoor noise reduction index with open window. Applied Acoustics, 2002, 63, 431-451.	1.7	24
62	Laboratory and pilot scale characterization of granular aerogel glazing systems. Energy and Buildings, 2019, 202, 109349.	3.1	24
63	Gypsum-plasters mixed with polystyrene balls for building insulation: Experimental characterization and energy performance. Construction and Building Materials, 2021, 283, 122625.	3.2	24
64	FaÃ§ade noise abatement prediction: New spectrum adaptation terms measured in field in different road and railway traffic conditions. Applied Acoustics, 2014, 76, 238-248.	1.7	23
65	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. Biomass and Bioenergy, 2012, 47, 26-36.	2.9	22
66	Wooden windows: Sound insulation evaluation by means of artificial neural networks. Applied Acoustics, 2013, 74, 740-745.	1.7	22
67	Sound intensity investigation of the acoustics performances of high insulation ventilating windows integrated with rolling shutter boxes. Applied Acoustics, 2005, 66, 1088-1101.	1.7	21
68	Nano and Biotech Based Materials for Energy Building Efficiency. , 2016, , .		20
69	Optimization of bioethanol production from steam exploded hornbeam wood (Ostrya carpinifolia) by enzymatic hydrolysis. Renewable Energy, 2018, 124, 136-143.	4.3	20
70	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. Energy, 2020, 202, 117754.	4.5	20
71	Building Behavior Simulation by Means of Artificial Neural Network in Summer Conditions. Sustainability, 2014, 6, 5339-5353.	1.6	19
72	Thermal Comfort Evaluation Within Non-residential Environments: Development of Artificial Neural Network by Using the Adaptive Approach Data. Energy Procedia, 2015, 78, 2875-2880.	1.8	19

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73	Mechanical characterization and thermal conductivity measurements using of a new 'small hot-box' apparatus: innovative insulating reinforced coatings analysis. Journal of Building Engineering, 2016, 7, 63-70.	1.6	19
74	Water vapour permeability of innovative building materials from different waste. Materials Letters, 2020, 265, 127459.	1.3	18
75	Sustainable Panels Made with Industrial and Agricultural Waste: Thermal and Environmental Critical Analysis of the Experimental Results. Applied Sciences (Switzerland), 2021, 11, 494.	1.3	18
76	Artificial Neural Network for the Thermal Comfort Index Prediction: Development of a New Simplified Algorithm. Energies, 2020, 13, 4500.	1.6	17
77	Thermal-energy and lighting performance of aerogel glazings with hollow silica: Field experimental study and dynamic simulations. Energy and Buildings, 2021, 243, 110999.	3.1	17
78	Effect of Steam Explosion Pretreatment on Sugar Production by Enzymatic Hydrolysis of Olive Tree Pruning. Energy Procedia, 2015, 81, 146-154.	1.8	16
79	Optimization of the steam explosion and enzymatic hydrolysis for sugars production from oak woods. Bioresource Technology, 2015, 198, 470-477.	4.8	16
80	Comparison of the Energy Performance of Existing Buildings by Means of Dynamic Simulations and Artificial Neural Networks. Energy Procedia, 2016, 101, 176-183.	1.8	16
81	Mean Age of Air in Natural Ventilated Buildings: Experimental Evaluation and CO2 Prediction by Artificial Neural Networks. Applied Sciences (Switzerland), 2020, 10, 1730.	1.3	16
82	Energy Performance Database of Building Heritage in the Region of Umbria, Central Italy. Energies, 2015, 8, 7261-7278.	1.6	15
83	Fermentable sugars production from peach tree prunings: Response surface model optimization of NaOH alkaline pretreatment. Biomass and Bioenergy, 2018, 112, 128-137.	2.9	15
84	Silica nanogel for energy-efficient windows. , 2013, , 207-235.		13
85	Design and monitoring of an innovative geothermal system including an underground heat-storage tank. International Journal of Green Energy, 2016, 13, 822-830.	2.1	13
86	Experimental and Numerical Energy Assessment of a Monolithic Aerogel Glazing Unit for Building Applications. Applied Sciences (Switzerland), 2019, 9, 5473.	1.3	13
87	Aerogel Plasters for BuildingÂEnergy Efficiency. , 2016, , 17-40.		13
88	Nanogel Windows for Energy Building Efficiency. , 2016, , 41-69.		11
89	Recycled leather cutting waste-based boards: thermal, acoustic, hygrothermal and ignitability properties. Journal of Material Cycles and Waste Management, 2020, 22, 1339-1351.	1.6	11
90	Nanogel Windows. , 2013, , 555-582.		10

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91	Vegetal Fiber Additives in Mortars: Experimental Characterization of Thermal and Acoustic Properties. Sustainability, 2022, 14, 1260.	1.6	10
92	Indoor Noise Reduction Index with an open window (Part II). Applied Acoustics, 2006, 67, 383-401.	1.7	9
93	Assessment of the Performance of Road Markings in Urban Areas: The Outcomes of the CIVITAS RENAISSANCE Project. Open Transportation Journal, 2013, 7, 7-19.	0.4	9
94	Energy and Environmental Performance Analysis of Biomass-fuelled Combined Cooling and Heating System for Commercial Building Retrofit: An Italian Case Study. Energy Procedia, 2016, 101, 376-383.	1.8	7
95	Carbon Dioxide Removal with Tuff: Experimental Measurement of Adsorption Properties and Breakthrough Modeling Using CFD Approach. Energy Procedia, 2016, 101, 392-399.	1.8	7
96	Driftwood Biomass in Italy: Estimation and Characterization. Sustainability, 2016, 8, 725.	1.6	6
97	Acid Hydrolysis of Olive Tree Leaves: Preliminary Study towards Biochemical Conversion. Processes, 2020, 8, 886.	1.3	6
98	Experimental characterization of the color rendering properties of transparent monolithic aerogel. Solar Energy, 2020, 205, 183-191.	2.9	6
99	Eco-Sustainable Wood Waste Panels for Building Applications: Influence of Different Species and Assembling Techniques on Thermal, Acoustic, and Environmental Performance. Buildings, 2021, 11, 361.	1.4	6
100	An innovative multilayer wall composed of natural materials: experimental characterization of the thermal properties and comparison with other solutions. Energy Procedia, 2018, 148, 892-899.	1.8	5
101	Energy Efficiency in Buildings and Innovative Materials for Building Construction. Applied Sciences (Switzerland), 2020, 10, 2866.	1.3	5
102	Development of a Decisional Procedure Based on Fuzzy Logic for the Energy Retrofitting of Buildings. Sustainability, 2021, 13, 9318.	1.6	5
103	Thermal Behaviour and Energy Saving Evaluation of Innovative Reinforced Coatings. Energy Procedia, 2015, 82, 480-485.	1.8	3
104	Investigation of thermo-acoustic and mechanical performance of gypsum-plaster and polyester fibers based materials for building envelope. Materials Today: Proceedings, 2022, 58, 1578-1581.	0.9	3
105	Analysis of the Thermal Stress and Strain on Arrigo Fiammingoâ€™s Artistic Window in the Cathedral of Perugia. Journal of Heat Transfer, 2001, 123, 1173-1180.	1.2	2
106	Analysis of Nano Silica Aerogel Based Glazing Effect on the Solar Heat Gain and Cooling Load in a School under Different Climatic Conditions. , 2022, 12, .		2
107	Impact of storage on energy performance of laricio pine wood chips: A case study in Italy. Industrial Crops and Products, 2019, 131, 301-306.	2.5	1
108	A multidisciplinary approach to the study of structural glass panels: Preliminary results. AIP Conference Proceedings, 2019, , .	0.3	1

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109	Production of eco-sustainable insulating panels by recovering wood waste: fabrication and preliminary experimental characterization of thermal and acoustic properties. E3S Web of Conferences, 2020, 197, 08021.	0.2	1
110	Evaluating the Impact of Shading Devices, Glazing Systems, and Building Orientation on the Energy Consumption in Educational Spaces. , 2022, 12, .		1
111	Sustainable Materials for the Thermal and Noise Insulation of Buildings: An Editorial. Sustainability, 2022, 14, 4961.	1.6	1
112	Solar heat transformation alternatives. International Journal of Ambient Energy, 1994, 15, 115-122.	1.4	0
113	Environmental Impact of Beef Production Systems. Green Energy and Technology, 2022, , 59-91.	0.4	0
114	The Experience of Training of Experts in Sustainable Development at the University of Perugia. World Sustainability Series, 2015, , 615-626.	0.3	0
115	Investigation of Thermal, Mechanical and Acoustic Performance of Bio-Materials Based on Plaster-Gypsum and Cork. , 0, , .		0
116	Simulating the Impact of Solar Energy on Pyramid and Stair Urban Blocks. , 2021, 12, .		0