

Cinzia Buratti

List of Publications by Citations

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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 | Glazing systems with silica aerogel for energy savings in buildings. <i>Applied Energy</i> , 2012 , 98, 396-403 | 10.7 | 172 |
| 109 | Experimental performance evaluation of aerogel glazing systems. <i>Applied Energy</i> , 2012 , 97, 430-437 | 10.7 | 141 |
| 108 | Adaptive analysis of thermal comfort in university classrooms: Correlation between experimental data and mathematical models. <i>Building and Environment</i> , 2009 , 44, 674-687 | 6.5 | 104 |
| 107 | Biogas production from different substrates in an experimental Continuously Stirred Tank Reactor anaerobic digester. <i>Bioresource Technology</i> , 2009 , 100, 5783-9 | 11 | 100 |
| 106 | Life cycle assessment of biomass chains: Wood pellet from short rotation coppice using data measured on a real plant. <i>Biomass and Bioenergy</i> , 2010 , 34, 1796-1804 | 5.3 | 93 |
| 105 | Environmental quality of university classrooms: Subjective and objective evaluation of the thermal, acoustic, and lighting comfort conditions. <i>Building and Environment</i> , 2018 , 127, 23-36 | 6.5 | 83 |
| 104 | Development of Innovative Aerogel Based Plasters: Preliminary Thermal and Acoustic Performance Evaluation. <i>Sustainability</i> , 2014 , 6, 5839-5852 | 3.6 | 83 |
| 103 | Multipurpose characterization of glazing systems with silica aerogel: In-field experimental analysis of thermal-energy, lighting and acoustic performance. <i>Building and Environment</i> , 2014 , 81, 92-102 | 6.5 | 80 |
| 102 | HVAC systems testing and check: A simplified model to predict thermal comfort conditions in moderate environments. <i>Applied Energy</i> , 2013 , 104, 117-127 | 10.7 | 70 |
| 101 | Unsteady simulation of energy performance and thermal comfort in non-residential buildings. <i>Building and Environment</i> , 2013 , 59, 482-491 | 6.5 | 66 |
| 100 | Aerogel-based materials for building applications: Influence of granule size on thermal and acoustic performance. <i>Energy and Buildings</i> , 2017 , 152, 472-482 | 7 | 63 |
| 99 | An original tool for checking energy performance and certification of buildings by means of Artificial Neural Networks. <i>Applied Energy</i> , 2014 , 120, 125-132 | 10.7 | 62 |
| 98 | Life Cycle Assessment of organic waste management strategies: an Italian case study. <i>Journal of Cleaner Production</i> , 2015 , 89, 125-136 | 10.3 | 61 |
| 97 | Anaerobic digestion of mechanically treated OFMSW: experimental data on biogas/methane production and residues characterization. <i>Bioresource Technology</i> , 2011 , 102, 8885-92 | 11 | 60 |
| 96 | Diagnosis of internal combustion engine through vibration and acoustic pressure non-intrusive measurements. <i>Applied Thermal Engineering</i> , 2009 , 29, 1707-1713 | 5.8 | 60 |
| 95 | Mean age of air in a naturally ventilated office: Experimental data and simulations. <i>Energy and Buildings</i> , 2011 , 43, 2021-2027 | 7 | 58 |
| 94 | 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> , 2018 , 171, 338-349 | 6.7 | 57 |

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| 93 | Thermogravimetric analysis of the behavior of sub-bituminous coal and cellulosic ethanol residue during co-combustion. <i>Bioresource Technology</i> , 2015 , 186, 154-162 | 11 | 55 |
| 92 | Thermal comfort in open plan offices in northern Italy: An adaptive approach. <i>Building and Environment</i> , 2012 , 56, 314-320 | 6.5 | 53 |
| 91 | A new index combining thermal, acoustic, and visual comfort of moderate environments in temperate climates. <i>Building and Environment</i> , 2018 , 139, 27-37 | 6.5 | 51 |
| 90 | Carbon footprint of conventional and organic beef production systems: An Italian case study. <i>Science of the Total Environment</i> , 2017 , 576, 129-137 | 10.2 | 46 |
| 89 | Effect of dynamic characteristics of building envelope on thermal-energy performance in winter conditions: In field experiment. <i>Energy and Buildings</i> , 2014 , 80, 218-230 | 7 | 45 |
| 88 | Optimization of torrefaction conditions of coffee industry residues using desirability function approach. <i>Waste Management</i> , 2018 , 73, 523-534 | 8.6 | 43 |
| 87 | Lighting and Energetic Characteristics of Transparent Insulating Materials: Experimental Data and Calculation. <i>Indoor and Built Environment</i> , 2011 , 20, 400-411 | 1.8 | 40 |
| 86 | Pyrolysis of pellets made with biomass and glycerol: Kinetic analysis and evolved gas analysis. <i>Biomass and Bioenergy</i> , 2017 , 97, 11-19 | 5.3 | 39 |
| 85 | Assessment of GHG emissions of biomethane from energy cereal crops in Umbria, Italy. <i>Applied Energy</i> , 2013 , 108, 128-136 | 10.7 | 39 |
| 84 | A method to assess lighting quality in educational rooms using analytic hierarchy process. <i>Building and Environment</i> , 2020 , 168, 106501 | 6.5 | 37 |
| 83 | Evaluation of Green Buildings' Overall Performance through in Situ Monitoring and Simulations. <i>Energies</i> , 2013 , 6, 6525-6547 | 3.1 | 34 |
| 82 | 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> , 2010 , 34, 1513-1522 | 5.3 | 32 |
| 81 | Optical and visual experimental characterization of a glazing system with monolithic silica aerogel. <i>Solar Energy</i> , 2019 , 183, 30-39 | 6.8 | 31 |
| 80 | Application of artificial neural network to predict thermal transmittance of wooden windows. <i>Applied Energy</i> , 2012 , 98, 425-432 | 10.7 | 31 |
| 79 | Development of Innovative Heating and Cooling Systems Using Renewable Energy Sources for Non-Residential Buildings. <i>Energies</i> , 2013 , 6, 5114-5129 | 3.1 | 31 |
| 78 | Evolutionary Housing System: Refurbishment with new technologies and unsteady simulations of energy performance. <i>Energy and Buildings</i> , 2014 , 74, 173-181 | 7 | 30 |
| 77 | Environmental characterisation of coffee chaff, a new recycled material for building applications. <i>Construction and Building Materials</i> , 2017 , 147, 185-193 | 6.7 | 29 |
| 76 | Ethanol production from vineyard pruning residues with steam explosion pretreatment. <i>Environmental Progress and Sustainable Energy</i> , 2015 , 34, 802-809 | 2.5 | 29 |

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| 75 | Preliminary Optimization of Alkaline Pretreatment for Ethanol Production from Vineyard Pruning. <i>Energy Procedia</i> , 2015 , 82, 389-394 | 2.3 | 27 |
| 74 | 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> , 2017 , 208, 1562-1575 | 10.7 | 26 |
| 73 | Optical, thermal, and energy performance of advanced polycarbonate systems with granular aerogel. <i>Energy and Buildings</i> , 2018 , 166, 407-417 | 7 | 26 |
| 72 | Prediction Of Indoor Conditions And Thermal Comfort Using CFD Simulations: A Case Study Based On Experimental Data. <i>Energy Procedia</i> , 2017 , 126, 115-122 | 2.3 | 25 |
| 71 | 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> , 2020 , 278, 118260 | 7.1 | 25 |
| 70 | High Energy-Efficient Windows with Silica Aerogel for Building Refurbishment: Experimental Characterization and Preliminary Simulations in Different Climate Conditions. <i>Buildings</i> , 2017 , 7, 8 | 3.2 | 25 |
| 69 | Thermal behaviour and kinetic study of the olive oil production chain residues and their mixtures during co-combustion. <i>Bioresource Technology</i> , 2016 , 214, 266-275 | 11 | 25 |
| 68 | Thermal comfort in the Frascini theatre (Pavia, Italy): Correlation between data from questionnaires, measurements, and mathematical model. <i>Energy and Buildings</i> , 2015 , 99, 243-252 | 7 | 25 |
| 67 | Aerogel glazing systems for building applications: A review. <i>Energy and Buildings</i> , 2021 , 231, 110587 | 7 | 25 |
| 66 | Thermal and Acoustic Properties of Aerogels: Preliminary Investigation of the Influence of Granule Size. <i>Energy Procedia</i> , 2017 , 111, 472-480 | 2.3 | 24 |
| 65 | Masonry wall panels retrofitted with thermal-insulating GFRP-reinforced jacketing. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 3957-3968 | 3.4 | 24 |
| 64 | Thermal degradation of driftwood: Determination of the concentration of sodium, calcium, magnesium, chlorine and sulfur containing compounds. <i>Waste Management</i> , 2017 , 60, 151-157 | 8.6 | 24 |
| 63 | A detailed study of climate change and some vulnerabilities in Indian Ocean: A case of Madagascar island. <i>Sustainable Cities and Society</i> , 2018 , 41, 886-898 | 10.1 | 24 |
| 62 | Evaluation of thermal comfort in an historical Italian opera theatre by the calculation of the neutral comfort temperature. <i>Building and Environment</i> , 2016 , 102, 116-127 | 6.5 | 23 |
| 61 | Thermal and Acoustic Performance Evaluation of New Basalt Fiber Insulation Panels for Buildings. <i>Energy Procedia</i> , 2015 , 78, 303-308 | 2.3 | 22 |
| 60 | Indoor noise reduction index with open window. <i>Applied Acoustics</i> , 2002 , 63, 431-451 | 3.1 | 22 |
| 59 | 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> , 2018 , 41, 666-678 | 10.1 | 22 |
| 58 | Application of a new 13-value thermal comfort scale to moderate environments. <i>Applied Energy</i> , 2016 , 180, 859-866 | 10.7 | 21 |

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| 57 | Faade noise abatement prediction: New spectrum adaptation terms measured in field in different road and railway traffic conditions. <i>Applied Acoustics</i> , 2014 , 76, 238-248 | 3.1 | 21 |
| 56 | 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> , 2012 , 47, 26-36 | 5.3 | 21 |
| 55 | 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> , 2016 , 37, 1 | 2.1 | 20 |
| 54 | An innovative straw bale wall package for sustainable buildings: experimental characterization, energy and environmental performance assessment. <i>Energy and Buildings</i> , 2020 , 208, 109636 | 7 | 20 |
| 53 | Acoustic measurements on monolithic aerogel samples and application of the selected solutions to standard window systems. <i>Applied Acoustics</i> , 2018 , 142, 123-131 | 3.1 | 20 |
| 52 | Development and optimization of a new ventilated brick wall: CFD analysis and experimental validation. <i>Energy and Buildings</i> , 2018 , 168, 284-297 | 7 | 19 |
| 51 | Wooden windows: Sound insulation evaluation by means of artificial neural networks. <i>Applied Acoustics</i> , 2013 , 74, 740-745 | 3.1 | 19 |
| 50 | Sustainable Panels with Recycled Materials for Building Applications: Environmental and Acoustic Characterization. <i>Energy Procedia</i> , 2016 , 101, 972-979 | 2.3 | 18 |
| 49 | Towards a holistic approach to indoor environmental quality assessment: Weighting schemes to combine effects of multiple environmental factors. <i>Energy and Buildings</i> , 2021 , 245, 111056 | 7 | 18 |
| 48 | Preparation and characterization of polyurethane/silica aerogel nanocomposite materials. <i>Journal of Applied Polymer Science</i> , 2017 , 134, | 2.9 | 17 |
| 47 | Laboratory and pilot scale characterization of granular aerogel glazing systems. <i>Energy and Buildings</i> , 2019 , 202, 109349 | 7 | 16 |
| 46 | Thermal Comfort Evaluation Within Non-residential Environments: Development of Artificial Neural Network by Using the Adaptive Approach Data. <i>Energy Procedia</i> , 2015 , 78, 2875-2880 | 2.3 | 16 |
| 45 | Sound intensity investigation of the acoustics performances of high insulation ventilating windows integrated with rolling shutter boxes. <i>Applied Acoustics</i> , 2005 , 66, 1088-1101 | 3.1 | 16 |
| 44 | Building Behavior Simulation by Means of Artificial Neural Network in Summer Conditions. <i>Sustainability</i> , 2014 , 6, 5339-5353 | 3.6 | 15 |
| 43 | 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> , 2020 , 202, 117754 | 7.9 | 14 |
| 42 | 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> , 2016 , 7, 63-70 | 5.2 | 14 |
| 41 | Optimization of the steam explosion and enzymatic hydrolysis for sugars production from oak woods. <i>Bioresource Technology</i> , 2015 , 198, 470-7 | 11 | 13 |
| 40 | Nano and Biotech Based Materials for Energy Building Efficiency 2016 , | | 13 |

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|----|---|-----|----|
| 39 | Energy Performance Database of Building Heritage in the Region of Umbria, Central Italy. <i>Energies</i> , 2015 , 8, 7261-7278 | 3.1 | 13 |
| 38 | Comparison of the Energy Performance of Existing Buildings by Means of Dynamic Simulations and Artificial Neural Networks. <i>Energy Procedia</i> , 2016 , 101, 176-183 | 2.3 | 13 |
| 37 | Characterization of Natural Gypsum Materials and Their Composites for Building Applications. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2443 | 2.6 | 12 |
| 36 | Design and monitoring of an innovative geothermal system including an underground heat-storage tank. <i>International Journal of Green Energy</i> , 2016 , 13, 822-830 | 3 | 11 |
| 35 | Silica nanogel for energy-efficient windows 2013 , 207-235 | | 11 |
| 34 | Aerogel Plasters for Building Energy Efficiency 2016 , 17-40 | | 11 |
| 33 | Water vapour permeability of innovative building materials from different waste. <i>Materials Letters</i> , 2020 , 265, 127459 | 3.3 | 10 |
| 32 | Fermentable sugars production from peach tree prunings: Response surface model optimization of NaOH alkaline pretreatment. <i>Biomass and Bioenergy</i> , 2018 , 112, 128-137 | 5.3 | 10 |
| 31 | Nanogel Windows 2013 , 555-582 | | 10 |
| 30 | Optimization of bioethanol production from steam exploded hornbeam wood (<i>Ostrya carpinifolia</i>) by enzymatic hydrolysis. <i>Renewable Energy</i> , 2018 , 124, 136-143 | 8.1 | 9 |
| 29 | Artificial Neural Network for the Thermal Comfort Index Prediction: Development of a New Simplified Algorithm. <i>Energies</i> , 2020 , 13, 4500 | 3.1 | 9 |
| 28 | Mean Age of Air in Natural Ventilated Buildings: Experimental Evaluation and CO ₂ Prediction by Artificial Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1730 | 2.6 | 8 |
| 27 | Nanogel Windows for Energy Building Efficiency 2016 , 41-69 | | 8 |
| 26 | Indoor Noise Reduction Index with an open window (Part II). <i>Applied Acoustics</i> , 2006 , 67, 383-401 | 3.1 | 8 |
| 25 | Experimental and Numerical Energy Assessment of a Monolithic Aerogel Glazing Unit for Building Applications. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5473 | 2.6 | 8 |
| 24 | Effect of Steam Explosion Pretreatment on Sugar Production by Enzymatic Hydrolysis of Olive Tree Pruning. <i>Energy Procedia</i> , 2015 , 81, 146-154 | 2.3 | 7 |
| 23 | Assessment of the Performance of Road Markings in Urban Areas: The Outcomes of the CIVITAS RENAISSANCE Project. <i>Open Transportation Journal</i> , 2013 , 7, 7-19 | 0.7 | 6 |
| 22 | Carbon Dioxide Removal with Tuff: Experimental Measurement of Adsorption Properties and Breakthrough Modeling Using CFD Approach. <i>Energy Procedia</i> , 2016 , 101, 392-399 | 2.3 | 6 |

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| 21 | Gypsum-plasters mixed with polystyrene balls for building insulation: Experimental characterization and energy performance. <i>Construction and Building Materials</i> , 2021 , 283, 122625 | 6.7 | 5 |
| 20 | Thermal-energy and lighting performance of aerogel glazings with hollow silica: Field experimental study and dynamic simulations. <i>Energy and Buildings</i> , 2021 , 243, 110999 | 7 | 5 |
| 19 | Driftwood Biomass in Italy: Estimation and Characterization. <i>Sustainability</i> , 2016 , 8, 725 | 3.6 | 5 |
| 18 | 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> , 2016 , 101, 376-383 | 2.3 | 5 |
| 17 | An innovative multilayer wall composed of natural materials: experimental characterization of the thermal properties and comparison with other solutions. <i>Energy Procedia</i> , 2018 , 148, 892-899 | 2.3 | 5 |
| 16 | Sustainable Panels Made with Industrial and Agricultural Waste: Thermal and Environmental Critical Analysis of the Experimental Results. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 494 | 2.6 | 4 |
| 15 | Experimental characterization of the color rendering properties of transparent monolithic aerogel. <i>Solar Energy</i> , 2020 , 205, 183-191 | 6.8 | 3 |
| 14 | Thermal Behaviour and Energy Saving Evaluation of Innovative Reinforced Coatings. <i>Energy Procedia</i> , 2015 , 82, 480-485 | 2.3 | 3 |
| 13 | 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> , 2020 , 185-197 | 2.5 | 3 |
| 12 | Acid Hydrolysis of Olive Tree Leaves: Preliminary Study towards Biochemical Conversion. <i>Processes</i> , 2020 , 8, 886 | 2.9 | 3 |
| 11 | Recycled leather cutting waste-based boards: thermal, acoustic, hygrothermal and ignitability properties. <i>Journal of Material Cycles and Waste Management</i> , 2020 , 22, 1339-1351 | 3.4 | 3 |
| 10 | Eco-Sustainable Wood Waste Panels for Building Applications: Influence of Different Species and Assembling Techniques on Thermal, Acoustic, and Environmental Performance. <i>Buildings</i> , 2021 , 11, 361 | 3.2 | 3 |
| 9 | Impact of storage on energy performance of laricio pine wood chips: A case study in Italy. <i>Industrial Crops and Products</i> , 2019 , 131, 301-306 | 5.9 | 1 |
| 8 | Analysis of the Thermal Stress and Strain on Arrigo Fiammingo's Artistic Window in the Cathedral of Perugia. <i>Journal of Heat Transfer</i> , 2001 , 123, 1173-1180 | 1.8 | 1 |
| 7 | Vegetal Fiber Additives in Mortars: Experimental Characterization of Thermal and Acoustic Properties. <i>Sustainability</i> , 2022 , 14, 1260 | 3.6 | 1 |
| 6 | A multidisciplinary approach to the study of structural glass panels: Preliminary results 2019 , | | 1 |
| 5 | 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> , 2020 , 197, 08021 | 0.5 | 0 |
| 4 | Development of a Decisional Procedure Based on Fuzzy Logic for the Energy Retrofitting of Buildings. <i>Sustainability</i> , 2021 , 13, 9318 | 3.6 | 0 |

- 3 Solar heat transformation alternatives. *International Journal of Ambient Energy*, **1994**, 15, 115-122 2
- 2 The Experience of Training of Experts in Sustainable Development at the University of Perugia. *World Sustainability Series*, **2015**, 615-626 0.6
- 1 Environmental Impact of Beef Production Systems. *Green Energy and Technology*, **2022**, 59-91 0.6