

# Andrea Gasparella

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,356  
citations

201385

27  
h-index

214527

47  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2152  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Multi-objectives optimization of Energy Efficiency Measures in existing buildings. <i>Energy and Buildings</i> , 2015, 95, 57-69.  | 3.1 | 161       |
| 2  | Experimental and theoretical analysis of heat and mass transfer in a packed column dehumidifier/regenerator with liquid desiccant. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 5240-5254.                             | 2.5 | 156       |
| 3  | Analysis and modelling of window and glazing systems energy performance for a well insulated residential building. <i>Energy and Buildings</i> , 2011, 43, 1030-1037.  | 3.1 | 152       |
| 4  | Combined effects of environmental factors on human perception and objective performance: A review of experimental laboratory works. <i>Indoor Air</i> , 2018, 28, 525-538.   | 2.0 | 123       |
| 5  | Small-scale biomass gasification CHP systems: Comparative performance assessment and monitoring experiences in South Tyrol (Italy). <i>Energy</i> , 2016, 112, 285-293.  | 4.5 | 84        |
| 6  | Chemical dehumidification by liquid desiccants: theory and experiment. <i>International Journal of Refrigeration</i> , 1999, 22, 334-347.  | 1.8 | 78        |
| 7  | An analysis methodology for large-scale deep energy retrofits of existing building stocks: Case study of the Italian office building. <i>Sustainable Cities and Society</i> , 2018, 41, 296-311.   | 5.1 | 78        |
| 8  | Heat transfer and pressure drop during HFC refrigerant vaporisation inside a brazed plate heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 5194-5203.  | 2.5 | 77        |
| 9  | Energy and environmental analysis of an innovative system based on municipal solid waste (MSW) pyrolysis and combined cycle. <i>Applied Thermal Engineering</i> , 2008, 28, 136-144.   | 3.0 | 70        |
| 10 | Experimental heat transfer coefficients during refrigerant vaporisation and condensation inside herringbone-type plate heat exchangers with enhanced surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 4125-4136. | 2.5 | 66        |
| 11 | Internal Versus External Shading Devices Performance in Office Buildings. <i>Energy Procedia</i> , 2014, 45, 463-472.  | 1.8 | 65        |
| 12 | Monitoring of the energy performance of a district heating CHP plant based on biomass boiler and ORC generator. <i>Applied Thermal Engineering</i> , 2015, 79, 98-107.   | 3.0 | 64        |
| 13 | Technical and economical analysis of heat recovery in building ventilation systems. <i>Applied Thermal Engineering</i> , 1998, 18, 47-67.  | 3.0 | 63        |
| 14 | Refrigerant R134a vaporisation heat transfer and pressure drop inside a small brazed plate heat exchanger. <i>International Journal of Refrigeration</i> , 2007, 30, 821-830.  | 1.8 | 62        |
| 15 | Energy audit of schools by means of cluster analysis. <i>Energy and Buildings</i> , 2015, 95, 160-171.   | 3.1 | 62        |
| 16 | Analysis of the influence of installation thermal bridges on windows performance: The case of clay block walls. <i>Energy and Buildings</i> , 2011, 43, 1435-1442.   | 3.1 | 50        |
| 17 | Three years experimental comparative analysis of a desiccant based air conditioning system for a flower greenhouse: Assessment of different desiccants. <i>Applied Thermal Engineering</i> , 2015, 78, 584-590.                              | 3.0 | 50        |
| 18 | Ammonia-water absorption machines for refrigeration: theoretical and real performances. <i>International Journal of Refrigeration</i> , 1996, 19, 239-246.   | 1.8 | 49        |

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|----|--|-----|-----------|
| 19 | Passive performance of glazed components in heating and cooling of an open-space office under controlled indoor thermal comfort. <i>Building and Environment</i> , 2014, 72, 131-144.  | 3.0 | 49        |
| 20 | Thermal dynamic transfer properties of the opaque envelope: Analytical and numerical tools for the assessment of the response to summer outdoor conditions. <i>Energy and Buildings</i> , 2011, 43, 2509-2517.                   | 3.1 | 47        |
| 21 | Comfort metrics for an integrated evaluation of buildings performance. <i>Energy and Buildings</i> , 2016, 127, 411-424.   | 3.1 | 43        |
| 22 | Experimental analysis on desiccant regeneration in a packed column with structured and random packing. <i>Solar Energy</i> , 2009, 83, 511-521.  | 2.9 | 42        |
| 23 | Multi-year and reference year weather data for building energy labelling in north Italy climates. <i>Energy and Buildings</i> , 2014, 72, 62-72.   | 3.1 | 41        |
| 24 | On the effect of material uncertainties in envelope heat transfer simulations. <i>Energy and Buildings</i> , 2014, 71, 53-60.  | 3.1 | 40        |
| 25 | Biomass gasification systems for residential application: An integrated simulation approach. <i>Applied Thermal Engineering</i> , 2014, 71, 152-160.   | 3.0 | 38        |
| 26 | Comfort and energy performance analysis of different glazing systems coupled with three shading control strategies. <i>Science and Technology for the Built Environment</i> , 2018, 24, 545-558.                                 | 0.8 | 35        |
| 27 | Using listening effort assessment in the acoustical design of rooms for speech. <i>Building and Environment</i> , 2018, 136, 38-53.  | 3.0 | 29        |
| 28 | Analysis of an absorption machine driven by the heat recovery on an I.C. reciprocating engine. <i>International Journal of Energy Research</i> , 2005, 29, 711-722.  | 2.2 | 28        |
| 29 | HFC-410A vaporisation inside a commercial brazed plate heat exchanger. <i>Experimental Thermal and Fluid Science</i> , 2007, 32, 107-116.  | 1.5 | 27        |
| 30 | Experimental measurement of thermophysical properties of H <sub>2</sub> O/KCOOH (potassium formate) desiccant. <i>International Journal of Refrigeration</i> , 2016, 62, 106-113.  | 1.8 | 27        |
| 31 | Unsteady state analysis of the compression cycle of a hermetic reciprocating compressor. <i>International Journal of Refrigeration</i> , 2003, 26, 681-689.  | 1.8 | 26        |
| 32 | Analysis and improvement of the representativeness of EN ISO 15927-4 reference years for building energy simulation. <i>Journal of Building Performance Simulation</i> , 2014, 7, 391-410.                                       | 1.0 | 24        |
| 33 | A stepwise approach integrating feature selection, regression techniques and cluster analysis to identify primary retrofit interventions on large stocks of buildings. <i>Sustainable Cities and Society</i> , 2019, 47, 101438. | 5.1 | 24        |
| 34 | Experimental Analysis on Chemical Dehumidification of Air by Liquid Desiccant and Desiccant Regeneration in a Packed Tower. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2004, 126, 587-591.           | 1.1 | 22        |
| 35 | Combination of ground source heat pumps with chemical dehumidification of air. <i>Applied Thermal Engineering</i> , 2005, 25, 295-308.   | 3.0 | 20        |
| 36 | Common reeds ( <i>Phragmites australis</i> ) as sustainable energy source: experimental and modelling analysis of torrefaction and pyrolysis processes. <i>GCB Bioenergy</i> , 2013, 5, 367-374.                                 | 2.5 | 17        |

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|----|---|-----|-----------|
| 37 | Speech intelligibility and listening effort in university classrooms for native and non-native Italian listeners. <i>Building Acoustics</i> , 2019, 26, 275-291.  | 1.1 | 17        |
| 38 | Acoustic and thermal characterization of a novel sustainable material incorporating recycled microplastic waste. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00274.  | 1.7 | 17        |
| 39 | Uncertainty propagation of material properties in energy simulation of existing residential buildings: The role of buildings features. <i>Building Simulation</i> , 2018, 11, 449-464.  | 3.0 | 16        |
| 40 | Evaluation of the main sensitivity drivers in relation to indoor comfort for individuals with autism spectrum disorder. Part 1: Investigation methodology and general results. <i>Energy Reports</i> , 2022, 8, 1907-1920.  | 2.5 | 16        |
| 41 | Comparative experimental analysis and modelling of a flower greenhouse equipped with a desiccant system. <i>Applied Thermal Engineering</i> , 2012, 47, 54-62.  | 3.0 | 15        |
| 42 | Impact of Reference Years on the Outcome of Multi-Objective Optimization for Building Energy Refurbishment. <i>Energies</i> , 2017, 10, 1925.   | 1.6 | 15        |
| 43 | Indirect evaporative cooling and economy cycle in summer air conditioning. <i>International Journal of Energy Research</i> , 2003, 27, 625-637.   | 2.2 | 14        |
| 44 | Extreme reference years for building energy performance simulation. <i>Journal of Building Performance Simulation</i> , 2020, 13, 152-166.  | 1.0 | 14        |
| 45 | Including the effect of solar radiation in dynamic indoor thermal comfort indices. <i>Renewable Energy</i> , 2021, 165, 151-161.  | 4.3 | 14        |
| 46 | Evaluation of the main sensitivity drivers in relation to indoor comfort for individuals with autism spectrum disorder. Part 2: Influence of age, co-morbidities, gender and type of respondent on the stress caused by specific environmental stimuli. <i>Energy Reports</i> , 2022, 8, 2989-3001. | 2.5 | 13        |
| 47 | Theoretical analysis of an open-cycle absorption heating and cooling system. <i>International Journal of Refrigeration</i> , 1996, 19, 160-167.   | 1.8 | 12        |
| 48 | Experimental report on the reliability of ammonia-water absorption chillers. <i>International Journal of Refrigeration</i> , 1996, 19, 247-256.   | 1.8 | 10        |
| 49 | Subjective and objective assessment of thermal comfort in physiotherapy centers. <i>Building and Environment</i> , 2020, 176, 106808.   | 3.0 | 10        |
| 50 | Application of Urban Scale Energy Modelling and Multi-Objective Optimization Techniques for Building Energy Renovation at District Scale. <i>Sustainability</i> , 2021, 13, 11554.  | 1.6 | 9         |
| 51 | Experimental Analysis on Chemical Dehumidification of Air in a Packed Column by Hygroscopic Salt Solution: Comparison between Structured and Random Packings. <i>HVAC and R Research</i> , 2006, 12, 713-729.   | 0.9 | 8         |
| 52 | Annual Performance of Sensible and Total Heat Recovery in Ventilation Systems: Humidity Control Constraints for European Climates. <i>Buildings</i> , 2017, 7, 28.  | 1.4 | 8         |
| 53 | Daylighting performance of three-dimensional textiles. <i>Energy and Buildings</i> , 2019, 190, 202-215.  | 3.1 | 8         |
| 54 | Experimental determination of the building envelope's dynamic thermal characteristics in consideration of hygrothermal modelling – Assessment of methods and sources of uncertainty. <i>Energy and Buildings</i> , 2021, 236, 110798.   | 3.1 | 8         |

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|----|--|-----|-----------|
| 55 | Analysis of a green roof application to an industrial building. <i>International Journal of Ambient Energy</i> , 2003, 24, 35-43.  | 1.4 | 7         |
| 56 | Impact of active facade control parameters and sensor network complexity on comfort and efficiency: A residential Italian case-study. <i>Energy and Buildings</i> , 2022, 255, 111650.           | 3.1 | 7         |
| 57 | Large scale energy analysis and renovation strategies for social housing in the historic city of Venice. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102041.              | 1.7 | 7         |
| 58 | Thermochemical and Fluid Dynamic Model of a Bench-Scale Torrefaction Reactor. <i>Waste and Biomass Valorization</i> , 2014, 5, 165-173.  | 1.8 | 5         |
| 59 | Analysis of subjective responses for the evaluation of the indoor environmental quality of an educational building. <i>Science and Technology for the Built Environment</i> , 2020, 26, 195-209. | 0.8 | 5         |
| 60 | Thermal comfort in physiotherapy centers: Evaluation of the neutral temperature and interaction with the other comfort domains. <i>Building and Environment</i> , 2021, 206, 108289.             | 3.0 | 4         |
| 61 | Cross-Laminated Timber Floor: Analysis of the Acoustic Properties and Radiation Efficiency. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3233.  | 1.3 | 3         |
| 62 | Development of Extreme Reference Years for Building Energy Simulation Scenarios. <i>Applied Mechanics and Materials</i> , 2019, 887, 129-139.  | 0.2 | 2         |
| 63 | Special issue on the microclimatic boundary conditions in building simulation models. <i>Journal of Building Performance Simulation</i> , 2020, 13, 137-138.                                     | 1.0 | 2         |
| 64 | Lighting conditions in physiotherapy centres: A comparative field study. <i>Lighting Research and Technology</i> , 0, , 147715352110465.   | 1.2 | 1         |