# Roberto Lamberts

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 92 papers | 2,766 citations | 29 h-index | 50 g-index |
| 97 ext. papers | 3,330 ext. citations | 5.8 avg, IF | 5.84 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 92 | Achieving mid-rise NZEB offices in Brazilian urban centres: A control strategy with desk fans and extension of set point temperature. *Energy and Buildings*, **2022**, 111911 | 7 | 2 |
| 91 | Development and validation of an optical model for water-based windows with clear glazing: A parametric performance assessment. *Building and Environment*, **2022**, 209, 108635 | 6.5 | 1 |
| 90 | Bottom-up modelling of electricity end-use consumption of the residential sector in Brazil. *Ambiente Construído*, **2022**, 22, 113-131 | 0.4 | |
| 89 | Addressing the impact of COVID-19 lockdown on energy use in municipal buildings: A case study in Florianópolis, Brazil. *Sustainable Cities and Society*, **2021**, 69, 102823 | 10.1 | 19 |
| 88 | Thermal performance and thermal resistance of fibre cement roof tiles: Experimental study. *Energy and Buildings*, **2021**, 231, 110569 | 7 | 6 |
| 87 | A metamodel for building information modeling-building energy modeling integration in early design stage. *Automation in Construction*, **2021**, 121, 103422 | 9.6 | 16 |
| 86 | A review on windows incorporating water-based liquids. *Solar Energy*, **2021**, 214, 606-631 | 6.8 | 5 |
| 85 | Sustainable energy performance in Brazilian social housing: A proposal for a Sustainability Index in the energy life cycle considering climate change. *Energy and Buildings*, **2021**, 242, 110845 | 7 | 2 |
| 84 | Measurement of solar reflectance of roofs: Effect of paint aging and a discussion on ASTM E1918 standard. *Energy and Buildings*, **2021**, 245, 111057 | 7 | 0 |
| 83 | Thermal performance of residential building with mixed-mode and passive cooling strategies: The Brazilian context. *Energy and Buildings*, **2021**, 244, 111047 | 7 | 1 |
| 82 | Application of machine learning to estimate building energy use intensities. *Energy and Buildings*, **2021**, 249, 111219 | 7 | 3 |
| 81 | Evaluating the impact of the shape of school reference buildings on bottom-up energy benchmarking. *Journal of Building Engineering*, **2021**, 43, 103142 | 5.2 | 0 |
| 80 | Assessment of solar radiation data quality in typical meteorological years and its influence on the building performance simulation. *Energy and Buildings*, **2021**, 250, 111251 | 7 | 2 |
| 79 | From characterisation to evaluation: A review of dynamic and non-uniform airflows in thermal comfort studies. *Building and Environment*, **2021**, 206, 108386 | 6.5 | 2 |
| 78 | An international review of occupant-related aspects of building energy codes and standards. *Building and Environment*, **2020**, 179, 106906 | 6.5 | 38 |
| 77 | Thermal preference and comfort assessment in air-conditioned and naturally-ventilated university classrooms under hot and humid conditions in Brazil. *Energy and Buildings*, **2020**, 211, 109783 | 7 | 13 |
| 76 | Energy Justice in Slum Rehabilitation Housing: An Empirical Exploration of Built Environment Effects on Socio-Cultural Energy Demand. *Sustainability*, **2020**, 12, 3027 | 3.6 | 12 |

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| 75 | Assessing the energy performance of VAV and VRF air conditioning systems in an office building located in the city of Florianpolis. *Ambiente Construído*, **2020**, 20, 261-283 | 0.4 | |
| 74 | User-centered environmental control: a review of current findings on personal conditioning systems and personal comfort models. *Energy and Buildings*, **2020**, 222, 110011 | 7 | 24 |
| 73 | Evaluating assumptions of scales for subjective assessment of thermal environments âDo laypersons perceive them the way, we researchers believe?. *Energy and Buildings*, **2020**, 211, 109761 | 7 | 34 |
| 72 | Methods used in social sciences that suit energy research: A literature review on qualitative methods to assess the human dimension of energy use in buildings. *Energy and Buildings*, **2020**, 209, 109702 | 7 | 20 |
| 71 | Renewable energy and energy conservation area policy (REECAP) framework: A novel methodology for bottom-up and top-down principles integration. *Energy Strategy Reviews*, **2020**, 32, 100544 | 9.8 | 3 |
| 70 | Do we need building performance data to propose a climatic zoning for building energy efficiency regulations?. *Energy and Buildings*, **2020**, 225, 110303 | 7 | 6 |
| 69 | Adaptive behaviour and air conditioning use in Brazilian residential buildings. *Building Research and Information*, **2020**, 1-16 | 4.3 | 7 |
| 68 | Building Design for Hot and Humid Climate in a Changing World **2020**, 59-73 | | 1 |
| 67 | Application and characterization of metamodels based on artificial neural networks for building performance simulation: A systematic review. *Energy and Buildings*, **2020**, 217, 109972 | 7 | 38 |
| 66 | Technological innovations to assess and include the human dimension in the building-performance loop: A review. *Energy and Buildings*, **2019**, 202, 109365 | 7 | 25 |
| 65 | Influence of recent and long-term exposure to air-conditioned environments on thermal perception in naturally-ventilated classrooms. *Building and Environment*, **2019**, 156, 233-242 | 6.5 | 15 |
| 64 | The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. *Scientific Data*, **2019**, 6, 289 | 8.2 | 12 |
| 63 | Analyzing the impact of small solar water heating systems on peak demand and on emissions in the Brazilian context. *Renewable Energy*, **2019**, 133, 1404-1413 | 8.1 | 9 |
| 62 | Estimating the impact of urban densification on high-rise office building cooling loads in a hot and humid climate. *Energy and Buildings*, **2019**, 182, 30-44 | 7 | 48 |
| 61 | Mapping failures in energy and environmental performance of buildings. *Energy and Buildings*, **2018** , 158, 476-485 | 7 | 21 |
| 60 | Residential solar water heaters in Brisbane, Australia: Key performance parameters and indicators. *Renewable Energy*, **2018**, 116, 120-132 | 8.1 | 14 |
| 59 | Development of the ASHRAE Global Thermal Comfort Database II. *Building and Environment*, **2018**, 142, 502-512 | 6.5 | 164 |
| 58 | A review of occupant behaviour in residential buildings. *Energy and Buildings*, **2018**, 174, 495-505 | 7 | 70 |

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| 57 | Measurement of solar factor of glazing and shading devices using a solar calorimeter. *Building and Environment*, **2018**, 144, 72-85 | 6.5 | 8 |
| 56 | Should we consider climate change for Brazilian social housing? Assessment of energy efficiency adaptation measures. *Energy and Buildings*, **2018**, 158, 1379-1392 | 7 | 40 |
| 55 | Development of a Metamodel to Predict Cooling Energy Consumption of HVAC Systems in Office Buildings in Different Climates. *Sustainability*, **2018**, 10, 4718 | 3.6 | 7 |
| 54 | Influence of relative air humidity and movement on human thermal perception in classrooms in a hot and humid climate. *Building and Environment*, **2018**, 146, 98-106 | 6.5 | 21 |
| 53 | Development of an experimental test rig for the evaluation of the thermal performance of building roofs. *Energy and Buildings*, **2018**, 180, 32-41 | 7 | 5 |
| 52 | The role of clothing in thermal comfort: how people dress in a temperate and humid climate in Brazil. *Ambiente Construído*, **2017**, 17, 69-81 | 0.4 | 4 |
| 51 | Thermal comfort in office buildings: Findings from a field study in mixed-mode and fully-air conditioning environments under humid subtropical conditions. *Building and Environment*, **2017**, 123, 672-683 | 6.5 | 44 |
| 50 | Avaliação experimental do espectrômetro Alta II e sua aplicação na normatização brasileira. *Ambiente Construído*, **2017**, 17, 197-213 | 0.4 | 1 |
| 49 | Evaluating energy performance in non-domestic buildings: A review. *Energy and Buildings*, **2016**, 128, 734-755 | 7 | 77 |
| 48 | Development and analysis of a metamodel to represent the thermal behavior of naturally ventilated and artificially air-conditioned residential buildings. *Energy and Buildings*, **2016**, 112, 209-221 | 7 | 24 |
| 47 | Thermal history and comfort in a Brazilian subtropical climate: a 'cool' addiction hypothesis. *Ambiente Construído*, **2016**, 16, 7-20 | 0.4 | 18 |
| 46 | Urban pavements used in Brazil: Characterization of solar reflectance and temperature verification in the field. *Solar Energy*, **2016**, 134, 72-81 | 6.8 | 26 |
| 45 | Performance evaluation of long-term thermal comfort indices in building simulation according to ASHRAE Standard 55. *Building and Environment*, **2016**, 102, 95-115 | 6.5 | 31 |
| 44 | Naturally comfortable and sustainable: Informed design guidance and performance labeling for passive commercial buildings in hot climates. *Applied Energy*, **2016**, 174, 256-274 | 10.7 | 46 |
| 43 | A novel surrogate model to support building energy labelling system: A new approach to assess cooling energy demand in commercial buildings. *Energy and Buildings*, **2016**, 131, 233-247 | 7 | 33 |
| 42 | Savings related to solar water heating system: A case study of low-income families in Brazil. *Energy and Buildings*, **2016**, 130, 434-442 | 7 | 15 |
| 41 | The effect of window opening ventilation control on residential building energy consumption. *Energy and Buildings*, **2016**, 133, 1-13 | 7 | 76 |
| 40 | Building energy efficiency: An overview of the Brazilian residential labeling scheme. *Renewable and Sustainable Energy Reviews*, **2016**, 65, 1216-1231 | 16.2 | 36 |

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| 39 | A review of human thermal comfort in the built environment. *Energy and Buildings*, **2015**, 105, 178-205 | 7 | 425 |
| 38 | ASHRAE 55 adaptive model application in hot and humid climates: the Brazilian case. *Architectural Science Review*, **2015**, 58, 93-101 | 2.6 | 15 |
| 37 | Characterisation of representative building typologies for social housing projects in Brazil and its energy performance. *Energy Policy*, **2015**, 87, 524-541 | 7.2 | 37 |
| 36 | Building energy performance assessment: Comparison between ASHRAE standard 90.1 and Brazilian regulation. *Energy and Buildings*, **2014**, 70, 372-383 | 7 | 21 |
| 35 | Development of surrogate models using artificial neural network for building shell energy labelling. *Energy Policy*, **2014**, 69, 457-466 | 7.2 | 54 |
| 34 | Developing energy consumption benchmarks for buildings: Bank branches in Brazil. *Energy and Buildings*, **2014**, 82, 82-91 | 7 | 47 |
| 33 | A procedure for analysing energy savings in multiple small solar water heaters installed in low-income housing in Brazil. *Energy Policy*, **2014**, 72, 43-55 | 7.2 | 18 |
| 32 | Anlise do procedimento de simulao da NBR 15575 para avaliao do desempenho trmico de edificaes residenciais. *Ambiente Construdo*, **2014**, 14, 83-101 | 0.4 | 9 |
| 31 | Assessment of technical and economical viability for large-scale conversion of single family residential buildings into zero energy buildings in Brazil: Climatic and cultural considerations. *Energy Policy*, **2013**, 63, 716-725 | 7.2 | 24 |
| 30 | O efeito da utilizao de ventiladores de teto no conforto trmico em salas de aulas com condicionamento hbrido em um local de clima quente e mido. *Ambiente Construdo*, **2013**, 13, 189-202 | 0.4 | 3 |
| 29 | Assessing the accuracy of a simplified building energy simulation model using BESTEST: The case study of Brazilian regulation. *Energy and Buildings*, **2012**, 45, 219-228 | 7 | 23 |
| 28 | Development of a calorimeter for determination of the solar factor of architectural glass and fenestrations. *Building and Environment*, **2012**, 47, 232-242 | 6.5 | 13 |
| 27 | Innovations in the Brazilian regulations for energy efficiency of residential buildings. *Architectural Science Review*, **2012**, 55, 71-81 | 2.6 | 10 |
| 26 | Towards a Brazilian standard for naturally ventilated buildings: guidelines for thermal and air movement acceptability. *Building Research and Information*, **2011**, 39, 145-153 | 4.3 | 30 |
| 25 | Combined thermal acceptability and air movement assessments in a hot humid climate. *Building and Environment*, **2011**, 46, 379-385 | 6.5 | 67 |
| 24 | Investigation of green roof thermal performance in temperate climate: A case study of an experimental building in Florianpolis city, Southern Brazil. *Energy and Buildings*, **2011**, 43, 1712-1722 | 7 | 91 |
| 23 | Influncias dos algoritmos de conduo e conveco sobre os resultados de simulaes do comportamento trmico de edificaes. *Ambiente Construdo*, **2011**, 11, 79-97 | 0.4 | |
| 22 | Parmetros e mtodos adotados no regulamento de etiquetagem da eficincia energtica de edifcios: parte 2: mtodo de simulao. *Ambiente Construdo*, **2010**, 10, 27-40 | 0.4 | 4 |

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| 21 | Parâmetros e métodos adotados no regulamento de etiquetagem da eficiência energética de edifícios: parte 1: método prescritivo. *Ambiente Construído*, **2010**, 10, 7-26 | 0.4 | 13 |
| 20 | Estimativa de propriedades termofísicas em campo usando modelos de transferência de calor e umidade. *Ambiente Construído*, **2010**, 10, 19-35 | 0.4 | |
| 19 | Cooling exposure in hot humid climates: are occupants âaddictedâ?. *Architectural Science Review*, **2010**, 53, 59-64 | 2.6 | 41 |
| 18 | Air movement acceptability limits and thermal comfort in Brazil's hot humid climate zone. *Building and Environment*, **2010**, 45, 222-229 | 6.5 | 127 |
| 17 | Thermal acceptability assessment in buildings located in hot and humid regions in Brazil. *Building and Environment*, **2010**, 45, 1225-1232 | 6.5 | 26 |
| 16 | Aplicabilidade dos limites da velocidade do ar para efeito de conforto térmico em climas quentes e úmidos. *Ambiente Construído*, **2010**, 10, 59-68 | 0.4 | 9 |
| 15 | Estimation of thermophysical properties using natural signal analysis with heat and moisture transfer model. *Energy and Buildings*, **2009**, 41, 1360-1367 | 7 | 6 |
| 14 | Opaque envelope parameters versus energy consumption in commercial buildings in Brazil. *Journal of Building Performance Simulation*, **2008**, 1, 237-244 | 2.8 | 4 |
| 13 | Theoretical/experimental comparison of heat flux reduction in roofs achieved through the use of reflective thermal insulators. *Energy and Buildings*, **2008**, 40, 438-444 | 7 | 23 |
| 12 | Evaluation of heat flux reduction provided by the use of radiant barriers in clay tile roofs. *Energy and Buildings*, **2008**, 40, 445-451 | 7 | 33 |
| 11 | Development of envelope efficiency labels for commercial buildings: Effect of different variables on electricity consumption. *Energy and Buildings*, **2008**, 40, 2002-2008 | 7 | 46 |
| 10 | Main influences on the design philosophy and knowledge basis to bioclimatic integration into architectural designâThe example of best practices. *Building and Environment*, **2007**, 42, 3762-3773 | 6.5 | 18 |
| 9 | Improvement of a measurement system for solar heat gain through fenestrations. *Energy and Buildings*, **2007**, 39, 478-487 | 7 | 24 |
| 8 | Electricity end-uses in the residential sector of Brazil. *Energy Policy*, **2007**, 35, 4107-4120 | 7.2 | 54 |
| 7 | Building Thermal Performance Simulation with Direct Evaporative Cooling by Water Spray Vaporization. *HVAC and R Research*, **2006**, 12, 669-692 | | 4 |
| 6 | The use of simplified weather data to estimate thermal loads of non-residential buildings. *Energy and Buildings*, **2004**, 36, 847-854 | 7 | 26 |
| 5 | Modelling spray vaporization for evaporative cooling of buildings. *Building Services Engineering Research and Technology*, **2004**, 25, 351-361 | 2.3 | 4 |
| 4 | Moisture effects on conduction loads. *Energy and Buildings*, **2003**, 35, 631-644 | 7 | 113 |

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| 3 | A methodology for building energy modelling and calibration in warm climates. *Building and Environment*, **2002**, 37, 903-912 | 6.5 | 74 |
| 2 | A new mathematical method to solve highly coupled equations of heat and mass transfer in porous media. *International Journal of Heat and Mass Transfer*, **2002**, 45, 509-518 | 4.9 | 69 |
| 1 | Electricity efficiency in commercial and public buildings. *Energy for Sustainable Development*, **1996**, 2, 49-52 | 5.4 | 3 |