

Runming Yao

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

4,874
citations

94433

37
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95266

68
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97
all docs

97
docs citations

97
times ranked

3437
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A comparative field study of occupants' thermal exposure in non-heating and decentralized heating environments. <i>Building and Environment</i> , 2022, 207, 108501. | 6.9 | 6 |
| 2 | Thermal comfort in hospital buildings – A literature review. <i>Journal of Building Engineering</i> , 2022, 45, 103463. | 3.4 | 43 |
| 3 | Reducing indoor relative humidity can improve the circulation and cardiorespiratory health of older people in a cold environment: A field trial conducted in Chongqing, China. <i>Science of the Total Environment</i> , 2022, 817, 152695. | 8.0 | 14 |
| 4 | Evolution and performance analysis of adaptive thermal comfort models – A comprehensive literature review. <i>Building and Environment</i> , 2022, 217, 109020. | 6.9 | 61 |
| 5 | A three-stage decision-making process for cost-effective passive solutions in office buildings in the hot summer and cold winter zone in China. <i>Energy and Buildings</i> , 2022, 268, 112173. | 6.7 | 16 |
| 6 | Indoor air quality and health in schools: A critical review for developing the roadmap for the future school environment. <i>Journal of Building Engineering</i> , 2022, 57, 104908. | 3.4 | 43 |
| 7 | A holistic investigation into the seasonal and temporal variations of window opening behavior in residential buildings in Chongqing, China. <i>Energy and Buildings</i> , 2021, 231, 110522. | 6.7 | 18 |
| 8 | Modelling heating and cooling energy demand for building stock using a hybrid approach. <i>Energy and Buildings</i> , 2021, 235, 110740. | 6.7 | 66 |
| 9 | Energy-quota-based integrated solutions for heating and cooling of residential buildings in the Hot Summer and Cold Winter zone in China. <i>Energy and Buildings</i> , 2021, 236, 110767. | 6.7 | 34 |
| 10 | The development of energy conservation policy of buildings in China: A comprehensive review and analysis. <i>Journal of Building Engineering</i> , 2021, 38, 102229. | 3.4 | 13 |
| 11 | A systematic review of operating room ventilation. <i>Journal of Building Engineering</i> , 2021, 40, 102693. | 3.4 | 22 |
| 12 | Urban meteorological forcing data for building energy simulations. <i>Building and Environment</i> , 2021, 204, 108088. | 6.9 | 23 |
| 13 | Evaluating the determinants of household electricity consumption using cluster analysis. <i>Journal of Building Engineering</i> , 2021, 43, 102487. | 3.4 | 12 |
| 14 | Experimental studies on hot gas bypass defrosting control strategies for air source heat pumps. <i>Journal of Building Engineering</i> , 2021, 43, 103165. | 3.4 | 7 |
| 15 | Reducing particulates in indoor air can improve the circulation and cardiorespiratory health of old people: A randomized, double-blind crossover trial of air filtration. <i>Science of the Total Environment</i> , 2021, 798, 149248. | 8.0 | 14 |
| 16 | Impact of neighbourhood-scale climate characteristics on building heating demand and night ventilation cooling potential. <i>Renewable Energy</i> , 2020, 150, 943-956. | 8.9 | 28 |
| 17 | Assessing energy saving potentials of office buildings based on adaptive thermal comfort using a tracking-based method. <i>Energy and Buildings</i> , 2020, 208, 109611. | 6.7 | 35 |
| 18 | A machine-learning-based approach to predict residential annual space heating and cooling loads considering occupant behaviour. <i>Energy</i> , 2020, 212, 118676. | 8.8 | 74 |

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|----|--|-----|-----------|
| 19 | How do urban residents use energy for winter heating at home? A large-scale survey in the hot summer and cold winter climate zone in the Yangtze River region. <i>Energy and Buildings</i> , 2020, 223, 110131. | 6.7 | 65 |
| 20 | A method to identify individually physiological response differences to heat exposure using Comprehensive Deviation Coefficient (CDC). <i>Energy and Buildings</i> , 2020, 217, 110003. | 6.7 | 3 |
| 21 | A spatial-and-temporal-based method for rapid particle concentration estimations in an urban environment. <i>Journal of Cleaner Production</i> , 2020, 256, 120331. | 9.3 | 8 |
| 22 | A quick measurement method for determining the incidence angle modifier of flat plate solar collectors using spectroradiometer. <i>Solar Energy</i> , 2020, 201, 746-750. | 6.1 | 6 |
| 23 | Energy flexibility for heating and cooling based on seasonal occupant thermal adaptation in mixed-mode residential buildings. <i>Energy</i> , 2019, 189, 116339. | 8.8 | 32 |
| 24 | A multi-layer approach for estimating the energy use intensity on an urban scale. <i>Cities</i> , 2019, 95, 102467. | 5.6 | 8 |
| 25 | Particle removal efficiency of a household portable air cleaner in real-world residences: A single-blind cross-over field study. <i>Energy and Buildings</i> , 2019, 203, 109464. | 6.7 | 25 |
| 26 | Thermal adaptation of the elderly during summer in a hot humid area: Psychological, behavioral, and physiological responses. <i>Energy and Buildings</i> , 2019, 203, 109450. | 6.7 | 63 |
| 27 | Modification of the Predicted Heat Strain (PHS) model in predicting human thermal responses for Chinese workers in hot environments. <i>Building and Environment</i> , 2019, 165, 106349. | 6.9 | 27 |
| 28 | Natural ventilation potential for residential buildings in a densely built-up and highly polluted environment. A case study. <i>Renewable Energy</i> , 2019, 138, 340-353. | 8.9 | 38 |
| 29 | Quantification of personal thermal comfort with localized airflow system based on sensitivity analysis and classification tree model. <i>Energy and Buildings</i> , 2019, 194, 1-11. | 6.7 | 34 |
| 30 | Effectiveness of the thermal mass of external walls on residential buildings for part-time part-space heating and cooling using the state-space method. <i>Energy and Buildings</i> , 2019, 190, 155-171. | 6.7 | 40 |
| 31 | A hierarchical climatic zoning method for energy efficient building design applied in the region with diverse climate characteristics. <i>Energy and Buildings</i> , 2019, 186, 355-367. | 6.7 | 66 |
| 32 | Low carbon heating and cooling of residential buildings in cities in the hot summer and cold winter zone - A bottom-up engineering stock modeling approach. <i>Journal of Cleaner Production</i> , 2019, 220, 271-288. | 9.3 | 49 |
| 33 | Numerical and experimental studies of a Capillary-Tube embedded PCM component for improving indoor thermal environment. <i>Applied Thermal Engineering</i> , 2019, 148, 466-477. | 6.0 | 34 |
| 34 | Moisture in clothing and its transient influence on human thermal responses through clothing microenvironment in cold environments in winter. <i>Building and Environment</i> , 2019, 150, 1-12. | 6.9 | 16 |
| 35 | An investigation of formaldehyde concentration in residences and the development of a model for the prediction of its emission rates. <i>Building and Environment</i> , 2019, 147, 540-550. | 6.9 | 20 |
| 36 | Regulation of sensory nerve conduction velocity of human bodies responding to annual temperature variations in natural environments. <i>Indoor Air</i> , 2019, 29, 308-319. | 4.3 | 9 |

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|----|---|------|-----------|
| 37 | An object-oriented energy benchmark for the evaluation of the office building stock. <i>Utilities Policy</i> , 2018, 51, 1-11. | 4.0 | 13 |
| 38 | Developing urban residential reference buildings using clustering analysis of satellite images. <i>Energy and Buildings</i> , 2018, 169, 417-429. | 6.7 | 58 |
| 39 | A "heart rate"™-based model (PHSHR) for predicting personal heat stress in dynamic working environments. <i>Building and Environment</i> , 2018, 135, 318-329. | 6.9 | 24 |
| 40 | Decision-making on HVAC&R systems selection: a critical review. <i>Intelligent Buildings International</i> , 2018, 10, 133-153. | 2.3 | 9 |
| 41 | A modified method of evaluating the impact of air humidity on human acceptable air temperatures in hot-humid environments. <i>Energy and Buildings</i> , 2018, 158, 393-405. | 6.7 | 51 |
| 42 | Indoor thermal environments in Chinese residential buildings responding to the diversity of climates. <i>Applied Thermal Engineering</i> , 2018, 129, 693-708. | 6.0 | 106 |
| 43 | The effect of passive measures on thermal comfort and energy conservation. A case study of the hot summer and cold winter climate in the Yangtze River region. <i>Journal of Building Engineering</i> , 2018, 15, 298-310. | 3.4 | 115 |
| 44 | A fuzzy multiple attribute decision making tool for HVAC&R systems selection with considering the future probabilistic climate changes and electricity decarbonisation plans in the UK. <i>Energy and Buildings</i> , 2018, 159, 398-418. | 6.7 | 15 |
| 45 | Exploring the "black box" of thermal adaptation using information entropy. <i>Building and Environment</i> , 2018, 146, 166-176. | 6.9 | 26 |
| 46 | Influence of human thermal adaptation and its development on human thermal responses to warm environments. <i>Building and Environment</i> , 2018, 139, 134-145. | 6.9 | 20 |
| 47 | A preliminary study on post-occupancy evaluation of four office buildings in the UK based on the Analytic Hierarchy Process. <i>Intelligent Buildings International</i> , 2018, 10, 234-246. | 2.3 | 17 |
| 48 | Seasonal variation of thermal sensations in residential buildings in the Hot Summer and Cold Winter zone of China. <i>Energy and Buildings</i> , 2017, 140, 9-18. | 6.7 | 196 |
| 49 | A study of thermal comfort in residential buildings on the Tibetan Plateau, China. <i>Building and Environment</i> , 2017, 119, 71-86. | 6.9 | 71 |
| 50 | Experimental and numerical studies to assess the energy performance of naturally ventilated PV facade systems. <i>Solar Energy</i> , 2017, 147, 37-51. | 6.1 | 49 |
| 51 | An Epistemic-Deontic-Axiologic (EDA) agent-based energy management system in office buildings. <i>Applied Energy</i> , 2017, 205, 440-452. | 10.1 | 14 |
| 52 | A simplified thermoregulation model of the human body in warm conditions. <i>Applied Ergonomics</i> , 2017, 59, 387-400. | 3.1 | 24 |
| 53 | Assessing stack ventilation strategies in the continental climate of Beijing using CFD simulations. <i>International Journal of Ventilation</i> , 2017, 16, 61-80. | 0.4 | 6 |
| 54 | Performance evaluation of a building integrated photovoltaic (BIPV) system combined with a wastewater source heat pump (WWSHP) system. <i>Energy Procedia</i> , 2017, 140, 434-446. | 1.8 | 7 |

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|----|--|------|-----------|
| 55 | A multidimensional model for green building assessment: A case study of a highest-rated project in Chongqing. <i>Energy and Buildings</i> , 2016, 125, 231-243. | 6.7 | 27 |
| 56 | Modelling personal thermal sensations using C-Support Vector Classification (C-SVC) algorithm. <i>Building and Environment</i> , 2016, 99, 98-106. | 6.9 | 76 |
| 57 | Energy-based sustainability assessment of different energy options for green buildings. <i>Energy Conversion and Management</i> , 2015, 100, 97-102. | 9.2 | 35 |
| 58 | A method of evaluating the accuracy of human body thermoregulation models. <i>Building and Environment</i> , 2015, 87, 1-9. | 6.9 | 16 |
| 59 | A field study of urban microclimates in London. <i>Renewable Energy</i> , 2015, 73, 3-9. | 8.9 | 55 |
| 60 | A study of adaptive thermal comfort in a well-controlled climate chamber. <i>Applied Thermal Engineering</i> , 2015, 76, 283-291. | 6.0 | 78 |
| 61 | An integrated study of urban microclimates in Chongqing, China: Historical weather data, transverse measurement and numerical simulation. <i>Sustainable Cities and Society</i> , 2015, 14, 187-199. | 10.4 | 32 |
| 62 | A review of existing building benchmarks and the development of a set of reference office buildings for England and Wales. <i>Intelligent Buildings International</i> , 2014, 6, 41-64. | 2.3 | 13 |
| 63 | An investigation of thermal comfort adaptation behaviour in office buildings in the UK. <i>Indoor and Built Environment</i> , 2014, 23, 675-691. | 2.8 | 42 |
| 64 | An analysis of UK policies for domestic energy reduction using an agent based tool. <i>Energy Policy</i> , 2014, 66, 267-279. | 8.8 | 41 |
| 65 | A review of the performance of different ventilation and airflow distribution systems in buildings. <i>Building and Environment</i> , 2014, 73, 171-186. | 6.9 | 363 |
| 66 | An introduction to the Chinese Evaluation Standard for the indoor thermal environment. <i>Energy and Buildings</i> , 2014, 82, 27-36. | 6.7 | 99 |
| 67 | Characterising the energy performance of centralised HVAC&R systems in the UK. <i>Energy and Buildings</i> , 2013, 62, 239-247. | 6.7 | 22 |
| 68 | Developing new components for variable flow distribution system modelling in TRNSYS. <i>Building Simulation</i> , 2013, 6, 309-322. | 5.6 | 1 |
| 69 | Urban Microclimates and Simulation. , 2013, , 77-97. | | 4 |
| 70 | Incorporating technology buying behaviour into UK-based long term domestic stock energy models to provide improved policy analysis. <i>Energy Policy</i> , 2013, 52, 363-372. | 8.8 | 22 |
| 71 | Sustainability in the Built Environment. , 2013, , 1-22. | | 4 |
| 72 | Energy Efficient Building Design. , 2013, , 179-202. | | 1 |

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|----|---|------|-----------|
| 73 | Building energy efficiency for sustainable development in China: challenges and opportunities. Building Research and Information, 2012, 40, 417-431. | 3.9 | 62 |
| 74 | Exploiting a Hybrid Environmental Design Strategy in the Continental Climate of Beijing. International Journal of Ventilation, 2012, 11, 105-130. | 0.4 | 4 |
| 75 | The Impact of Urban Wind Environments on Natural Ventilation. International Journal of Ventilation, 2012, 11, 17-28. | 0.4 | 4 |
| 76 | Occupants'™ behavioural adaptation in workplaces with non-central heating and cooling systems. Applied Thermal Engineering, 2012, 35, 40-54. | 6.0 | 69 |
| 77 | A method to weight three categories of adaptive thermal comfort. Energy and Buildings, 2012, 47, 312-320. | 6.7 | 70 |
| 78 | A holistic method to assess building energy efficiency combining D-S theory and the evidential reasoning approach. Energy Policy, 2012, 45, 277-285. | 8.8 | 12 |
| 79 | Field studies on the effect of built forms on urban wind environments. Renewable Energy, 2012, 46, 148-154. | 8.9 | 43 |
| 80 | An Analytic Hierarchy Process Model for Assessing Occupants'™ Adaptations to Thermal Comfort in Offices. Smart Innovation, Systems and Technologies, 2011, , 25-34. | 0.6 | 2 |
| 81 | A simplified mathematical model for urban microclimate simulation. Building and Environment, 2011, 46, 253-265. | 6.9 | 38 |
| 82 | A method of identifying and weighting indicators of energy efficiency assessment in Chinese residential buildings. Energy Policy, 2010, 38, 7687-7697. | 8.8 | 67 |
| 83 | Occupants'™ adaptive responses and perception of thermal environment in naturally conditioned university classrooms. Applied Energy, 2010, 87, 1015-1022. | 10.1 | 168 |
| 84 | A generic model of Exergy Assessment for the Environmental Impact of Building Lifecycle. Energy and Buildings, 2010, 42, 1482-1490. | 6.7 | 38 |
| 85 | Part load operation coefficient of air-conditioning system of public building. Energy and Buildings, 2010, 42, 1902-1907. | 6.7 | 9 |
| 86 | A model of intelligent building energy management for the indoor environment. Intelligent Buildings International, 2010, 2, 72-80. | 2.3 | 11 |
| 87 | A theoretical adaptive model of thermal comfort " Adaptive Predicted Mean Vote (aPMV). Building and Environment, 2009, 44, 2089-2096. | 6.9 | 496 |
| 88 | Overview of an innovative EU-China collaboration in education and research in sustainable built environment. Renewable Energy, 2009, 34, 2080-2087. | 8.9 | 7 |
| 89 | Urbanisation and its impact on building energy consumption and efficiency in China. Renewable Energy, 2009, 34, 1994-1998. | 8.9 | 182 |
| 90 | Assessing the natural ventilation cooling potential of office buildings in different climate zones in China. Renewable Energy, 2009, 34, 2697-2705. | 8.9 | 69 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 91 | An investigation of the existing situation and trends in building energy efficiency management in China. Energy and Buildings, 2007, 39, 1098-1106. | 6.7 | 64 |
| 92 | Energy policy and standard for built environment in China. Renewable Energy, 2005, 30, 1973-1988. | 8.9 | 198 |
| 93 | A method of formulating energy load profile for domestic buildings in the UK. Energy and Buildings, 2005, 37, 663-671. | 6.7 | 391 |