

ZHU Yinxin

Professor

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RESEARCH AND TEACHING INTERESTS

Built Environment and HVAC Engineering

EDUCATION

Ph.D., Department of Thermal Engineering, Tsinghua University, 1989

B.Eng., Department of Thermal Engineering, Tsinghua University, 1984

ACADEMIC APPOINTMENTS

Department of Thermal Engineering, Tsinghua University

1989-1993, Assistant Professor

1993-1998, Associate Professor

1998-2000, Professor

1997-2000, Deputy dean of Department of Thermal Engineering

Dept. of Architecture, School of Engineering Nagoya University, Japan

July 1992—Oct. 1993, Fellow of Japan Society for the Promoting of Science

July 2002-Dec.2002, Guest Professor

April 2008-March 2009, Invited Professor

Department of Building Science, School of Architecture, Tsinghua University

2000-Present, Professor

Dec.2008 –Present, Vice-dean of School of Architecture

Dec. 2008–Present, Head of Dept. of Building Science

March 2009–Present, Vice Head of Key Lab of Ministry of Education on Eco-Urban
Planning and Green Building Research

March 2005–Present, Vice Head of Building Energy Research Center, Tsinghua
University

2004–2008, Director of Institute of Built Environment

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Social Organization

1. Chair of China National Steering Committee for Higher Education of Building Environment and Energy Engineering
2. Vice-Chair of China National Board of Education Accreditation for HVAC Engineering
3. Vice-Chair of Beijing Association of HVAC Engineers
4. The editorial board members of *Energy and Buildings*, *Building and Environment*, *Journal of Asia Architecture and Building Engineering*, *Building Simulation*, *Building Performance Simulation* (IBPSA's official journal), and *International Journal of Sustainable Building Technology and Urban Development*
5. Academy Fellow of ISIAQ (International Society of Indoor Air Quality and Climate)
6. Academy Fellow of IBPSA (International Building Performance Simulation Association)

Research Projects

1. Sub-project of 973 National Fundamental Research Program "Fundamental research on airliner cabin environment": Thermal comfort in airliner cabin, Jan. 2012-Dec. 2016
2. Momentous Project of National Natural Science Foundation: Fundamental research on dynamic thermal environment and human thermal comfort, Jan. 2009-Dec. 2012
3. Momentous Project of 11th 5-year National Plan: Building simulation toolkits and design methodology for building energy efficiency, 2006-2010
4. Projects of 11th 5-year National Plan: Indoor environment quality assessment system for single zone, 2006-2010
5. Project of National Natural Science Fund: Air velocity fluctuation properties and impact to building environment, 2005-2007
6. Project of Ministry of Science and Technology, Virtual reality for subway emergency and countermeasure decision-making system, 2005-2006
7. The 10th 5-year national plan project: Developing pivotal technologies for green buildings, sponsored by Ministry of Science and Technology, 2004-2005
8. Project of National Natural Science Fund: Dynamic thermal comfort and evaluation, 2003-2005
9. Project of Ministry of Science and Technology, Green Olympic Building Assessment System (GOBAS), 2002-2004
10. Project of Ministry of Science and Technology, Energy rating system for new buildings and low energy consumption demonstration building, 2002-2003
11. Project of Ministry of Education, Subway system thermal environment control and smoke control in fire emergency, 1995-1997

Professional Honors and Awards

1. Library of Shandong Transportation College, the 1st-class Prize of Green Building Innovation, awarded by the Ministry of Construction, 2007

2. Green Olympic Building Assessment System (GOBAS), the 1st-class Prize of Science and Technology, awarded by Beijing Municipal Science and Technology Commission, 2005
3. Meridian Gate Exhibition Hall of the Palace Museum, UNESCO Asia-Pacific Heritage Awards for Culture Heritage Conservation, 2005
4. Subway Thermal Environment Study, the Second-class Prize of Progress in Science & Technology award by Ministry of Education, 2000
5. Professional practice in education of building service engineering, the 1st-class Prize of University Education, awarded by Beijing Municipal Commission of Education, 2008
6. Distinguished Professor for Teaching, awarded by Beijing Municipal Commission of Education, 2008

Selected Publications

The impact of thermal environment on occupant IEQ perception and productivity

Y Geng, W Ji, [B Lin](#), Y Zhu - Building and Environment, 2017 – Elsevier

A comparison of winter indoor thermal environment and thermal comfort between regions in Europe, North America, and Asia

N Zhang, B Cao, [Z Wang](#), Y Zhu, [B Lin](#) - Building and Environment, 2017 – Elsevier

Can personal control influence human thermal comfort? A field study in residential buildings in China in winter

[M Luo](#), [B Cao](#), [X Zhou](#), M Li, J Zhang, Q Ouyang... - Energy and Buildings, 2014 – Elsevier

Individual and district heating: A comparison of residential heating modes with an analysis of adaptive thermal comfort

[B Cao](#), Y Zhu, M Li, Q Ouyang - Energy and Buildings, 2014 – Elsevier

Perceptible airflow fluctuation frequency and human thermal response

L Huang, Q Ouyang, Y Zhu - Building and Environment, 2012 – Elsevier

A study on the effects of thermal, luminous, and acoustic environments on indoor environmental comfort in offices

L Huang, Y Zhu, Q Ouyang, [B Cao](#) - Building and Environment, 2012 – Elsevier

Field study of human thermal comfort and thermal adaptability during the summer and winter in Beijing

[B Cao](#), Y Zhu, Q Ouyang, [X Zhou](#), L Huang - Energy and Buildings, 2011 – Elsevier

Renewable energy utilization evaluation method in green buildings

C Xia, Y Zhu, [B Lin](#) - Renewable Energy, 2008 – Elsevier

Study on dynamic characteristics of natural and mechanical wind in built environment using spectral analysis

Q Ouyang, W Dai, [H Li](#), Y Zhu - Building and environment, 2006 – Elsevier

Wavelet analysis on fluctuating characteristics of airflow in building environments

[H Li](#), X Chen, Q Ouyang, Y Zhu - Building and Environment, 2007 – Elsevier

Sustainable housing and urban construction in China

Y Zhu, [B Lin](#) - Energy and Buildings, 2004 - Elsevier

Influence of indoor air temperature on human thermal comfort, motivation and performance

W Cui, G Cao, JH Park, Q Ouyang, Y Zhu - Building and Environment, 2013 - Elsevier