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师资队伍

建筑设备工程系副教授

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院士

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作者: 来源: 时间: 2019-09-18 点击: 1258

博士生导师

教师信息



职称：副教授

学位：博士

研究领域：绿色建筑设计，建筑性能仿真

办公地点：工程实验楼南楼**417**

人才称号：广东省青年珠江学者

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个人简介

主要研究方向：建筑性能仿真模拟，绿色建筑设计，建筑围护结构节能设计改造，室内综合环境品质评估及高效营造，建筑用户行为模式分析及模型设定。

教育背景

2010-2013: 博士，建筑围护结构能耗分析，香港理工大学屋宇设备工程学系

2007-2010: 硕士，制冷与低温工程，中国科学院研究生院

2003-2007: 学士，建筑环境与设备工程，清华大学建筑学院

职业经历

1、学术工作经历

2016.5-2017.9: 副教授，广东工业大学

2017.9至今: 副教授，广州大学

2、海外工作经历

2013.10-2016.5: 博士后研究员，香港理工大学

教授课程

科研服务

1. 国家自然科学基金青年基金：基于光热耦合和人行行为模型的公共建筑窗户性能评估及优化研究；22万
2. 科技部国家重点研发计划：“建筑全性能仿真平台内核开发”项目子课题4.3：仿真平台内核准确性实测试证；
37.41万
3. 广州大学“百人计划”引进人才启动经费：150万
4. 广东省教育厅“珠江学者”计划配套经费：50万

研究成果

1、学术兼职

全国暖通空调学会计算机模拟专业委员会委员

国际期刊 Building and Environment, Energy and Buildings, Building Simulation An International Journal, Journal of Building Performance Simulation, Applied Energy, Energy, Construction and Building Materials 审稿人

本领域顶级学术会议Indoor Air 分会场主席

2、近期发表的期刊文章

[1] Yu Huang, Jian-lei Niu, Tse-ming Chung, Energy and carbon emission payback analysis for energy-efficient retrofitting in buildings—Overhang shading option, Energy and Buildings, 44 (2012), 94-103.

[2] Yu Huang, Jian-lei Niu, Tse-ming Chung, Study on performance of energy-efficient retrofitting measures on commercial building external walls in cooling-dominant cities, Applied Energy, 103 (2013), 97-108.

[3] Yu Huang, Jian-lei Niu, Tse-ming Chung, Comprehensive analysis on thermal and daylighting performance of glazing and shading designs on office building envelope in cooling-dominant climates, Applied Energy, 134 (2014), 215-228.

[4] Yu Huang, Jian-lei Niu, Application of super-insulating translucent silica aerogel glazing system on commercial building envelope of humid subtropical climates – Impact on space cooling load, Energy, 83 (2015), 316-325.

[5] Yu Huang, Jian-lei Niu, Energy and visual performance of the silica aerogel glazing system in commercial buildings of Hong Kong, Construction and Building Materials, 94 (2015), 57-72.

[6] Yu Huang, Jian-lei Niu, Optimal building envelope design based on simulated performance: History, current status and new potentials, Energy and Buildings, 117(2015), 387-398.

[7] Yu Huang, Jian-lei Niu, A review of the advance of HVAC technologies as witnessed in ENB publications in the period from 1987 to 2014, *Energy and Buildings*, 130(2016), 33-45.

[8] P. Xue, C.M. Mak, Y. Huang, Quantification of luminous comfort with dynamic daylight metrics in residential buildings, *Energy and Buildings*, 117(2016), 99-108.

[9] Ronghui Qi, Lin Lu, Yu Huang, Energy performance of solar-assisted liquid desiccant air-conditioning system for commercial building in main climate zones, *Energy Conversion and Management*, 88 (2014), 749-757.

[10] Ronghui Qi, Lin Lu, Yu Huang, Parameter analysis and optimization of the energy and economic performance of solar-assisted liquid desiccant cooling system under different climate conditions, *Energy Conversion and Management*, 106 (2015), 1387-1395.

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[12] J.Y. Hu, W. Dai, E.C. Luo, X.T. Wang, Y. Huang, Development of high efficiency Stirling-type pulse tube cryocoolers, *Cryogenics*, 50 (2010), 603-607.

[13] Yajun Lv, Huijun Wu, Yanchen Liu, Yu Huang, Tao Xu, Xiaoqing Zhou, Renda Huang, Quantitative research on the influence of particle size and filling thickness on aerogel glazing performance, *Energy and Buildings*, 174(2018), 190-198.

[14] Panyu Zhu, Da Yan, Hongshan Sun, Jingjing An, Yu Huang, Building Blocks Energy Estimation (BBEE): A method for building energy estimation on district level, *Energy and Buildings*, 185(2019), 137-145.

[15] Zhaosong Fang, Xiwen Feng, Zhimin Zheng, Xiaoqing Zhou, Li Li, Yu Huang, Huan Wang, Fengjiao Liu, Experimental study on performance optimization of air source heat pump using DOE method, *Experimental Heat Transfer*,

[16] Yajun Lv, Huiwang Peng, Manning He, Yu Huang, Junwei Wang, Definition of typical commercial building for South China's Pearl River Delta: Local data statistics and model development, *Energy and Buildings*, 190(2019), 119-131.

[17] Dawei Xia, Siwei Lou, Yu Huang, Yang Zhao, Danny H.W. Li, Xiaoqing Zhou, A study on occupant behaviour related to air-conditioning usage in residential buildings, *Energy and Buildings*, 203(2019), 109446.

[18] Huiwang Peng, Meixiang Li, Siwei Lou, Manning He, Yu Huang, Liwei Wen, Investigation on spatial distribution and thermal properties of typical residential buildings in South China's Pearl River Delta, *Energy and Buildings*, 206(2020), 109555.

[19] Huiwang Peng, Manning He, Meixiang Li, Yu Huang, Liwei Wen, Investigation on spatial distributions and occupant schedules of typical residential districts in South China's Pearl River Delta, *Energy and Buildings*, 209(2020), 109710.

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