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**研究方向:** 建筑性能参数化设计及其优化  
建筑物理环境营造与优化技术

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#### 专业履历:

2022.11—至今	河北工业大学	建筑与艺术设计学院	建筑系	副教授
2019.10—2022.10	河北工业大学	建筑与艺术设计学院	建筑系	讲师
2015.09—2019.06	天津大学	建筑学院	建筑学	博士
2012.09—2015.01	天津大学	环境科学与工程学院	环境工程	硕士
2008.09—2012.06	湖南大学	土木工程学院	建筑环境与设备工程	学士

#### 学术论文:

- [1] Hua Yang, Xiaoyun Wang, Sheng Yao\*. Thermodynamic analysis of a novel solar photovoltaic thermal collector coupled with switchable air source heat pump system. Applied Thermal Engineering, 2022, 218(2023): 119410. (SCI, 影响因子: 6.465)
- [2] Sheng Yao, Zezhi Jiang, Jingyu Yuan\*, et al. Multi-objective optimization of transparent building envelope of rural residences in cold climate zone, China. Case Studies in Thermal Engineering, 2022, 34: 102052. (SCI, 影响因子: 6.268)
- [3] Jingyu Yuan, Liying Huang, Sheng Yao\*, et al. Performance optimization of building facade floodlighting under dynamic sky luminance. Journal of Architectural Engineering, 2022, 28(4): 04022027. (EI)
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- [5] Wang Chao, Xuejiao Kong, Sheng Yao\*, et al. Crowd noise and vocal power level in large college canteens in China. Applied Acoustics, 2021, 182(2): 108242. (SCI, 影响因子: 3.614)
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- [7] Xiaohui Yu, Hongwei Li, Sheng Yao\*, et al. Development of an efficient numerical model and analysis of heat transfer performance for borehole heat exchanger. Renewable Energy, 2020, 152: 189-197. (SCI, 影响因子: 8.634)
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- [10] Xinhua Liu, Yufeng Zhang, Jang Shen, Sheng Yao\*, et al. Characteristics of air cooling for cold storage and power recovery of compressed air energy storage (CAES) with inter-cooling. Applied Thermal Engineering, 2016, 107: 1-9. (SCI, 影响因子: 6.465)

#### 专利标准:

- [1] 姚胜, 杨晨, 王晓云, 等. 太阳能集热与雨水源空调耦合式农村住宅节能墙系统. 实用新型, ZL 202220095287.0.
- [2] 姚胜, 杨晨, 王晓云, 等. 主动冷却型太阳能光电-雨水源空调一体化建筑围护结构系统. 实用新型, ZL 202220127147.7.
- [3] 姚胜, 蒋泽智, 王晓云, 等. 主动冷却型太阳能光伏-空气源热泵耦合式建筑供能系统. 实用新型, 202220097254.X.
- [4] T/CSUS 34-2021 城镇居住区智能化改造技术标准, 中国城市科学研究会标准, 参与.
- [5] GB/T 40286-2021 低温双循环余热回收利用装置性能测试方法, 国家标准, 参与.

#### 荣誉获奖:

- [1] 2020 年度“投身三创四建 勇当时代先锋”新时代“冀青之星”, 2020.11, 共青团河北省委. (证书编号: 20-03-02260)
- [2] 能质调配与转化关键技术及应用. 天津市技术发明二等奖, 2018.03, 天津市人民政府. (证书编号: 2017FM-2-007-R8)