**网站个人信息**

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| 个人信息 | 戴源德，男，工学博士，南昌大学先进制造学院副教授，硕士生导师。江西省土木建筑学会暖通空调热能动力专业委员会委员、中国机械工业教育协会高等工程教育制冷与低温学科教学委员会委员、中国制冷学会创新大赛评审委员会委员。近年来主要从事制冷剂替代、制冷空调系统节能与优化以及热泵应用新技术研究；发表学术论文80余篇，其中SCI/EI收录30余篇，授权实用新型专利4件。主持完成教育部产学合作协同育人项目1项和江西省高等学校教学改革研究课题1项；主讲的本科生课程《制冷与低温原理》连续多次获得南昌大学授课质量优秀奖或优秀提名奖，指导学生获得国家级学科竞赛奖励多次，获评江西省优秀硕士学位论文指导老师和南昌大学优秀本科生导师，获得过江铃奖教金和阿甘红牛奖教金。 |
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| 科研项目 | [1] 低碳节能降膜蒸发式冷凝器传热传质机理及强化特性研究，企业横向科研课题，HX202405070006，2024.01-2025.12，在研，主持。[2] 低温室效应二元混合工质R1234ze/R152a的管内流动相变传热特性研究，国家自然科学基金项目，22068024，2021.01-2024.12，在研，主持。[3] 柜式空调与冷水机组开发及生产制造技术服务，企业横向科研课题，HX202207250001，2022.08-2023.07，已结题，主持。[4] 带级间热回收的太阳能分级溶液集热/再生临界性能特性及热力学优化，国家自然科学基金项目，51766010，2018.01-2021.12，已结题，第二。[5] 制冷剂R290在水平管内的流动相变换热特性，江西省自然科学基金—面上项目， 20161BAB206124， 2016.01-2018.12，已结题，主持。[6] CFD基础理论专业课程系列培训，企业横向课题，CX201404030048， 2014.03-2014.09，已结题，主持。[7] 地下水源空调系统的研发，企业横向课题，CX201111180024，2011.01-2014.12，已结题，主持。[8] 蓄能型太阳能-空气双热源复合热泵系统研究，江西省科技支撑计划项目，20112BBE50031， 2011.01-2014.12，已结题，第二。[9] 镁合金半固态流变铸轧相变传热机理的研究，国家自然科学基金项目，51066005，2011.01-2013.12，已结题，第三。[10] 制冷系统虚拟仿真实践基地建设，教育部产学合作协同育人项目，220506707185311，2022.05-2023.05，已结题，主持。[11] 基于“学、研、赛”联动的创新人才培养的研究与实践——以南昌大学能源与动力工程专业为例，江西省高等学校教学改革研究课题，JXJG-18-1-58，2019.01-2022.06，已结题，主持。 |
| 科研成果 | 近五年发表的学术期刊论文：1. Yuande Dai, Xueying Ren & Chaoping Xu. Numerical study on condensation heat transfer of R1234ze(E)/R152a in a horizontal smooth tube[J]. Science and Technology for the Built Environment, 2024.2336841.
2. Dai Yuande , Tang Qingqing , Xu Chaoping. The Effect of Heat Exchanger Tube Structure on the Condensation Heat Transfer of R1234ze(E)/R152a Inside Smooth Tubes[J]. J. Thermal Sci. Eng. Appl. January 2024,16(1):011001.
3. Chuang Pan, Yuan-De Dai and Qing-Qing Tang. Modal Analysis and Optimal Design of Spirally Corrugated Tubes[J]. Journal of the Chinese Society of Mechanical Engineers, 2024,45(1) :33-40.

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Journal of Vibroengineering, 2023,25(7):1273-1284.[9] 文承泽,戴源德.R1234ze(E)气液相平衡的分子动力学模拟研究[J].低温与超导,2023,51(11):61-67.[10] 朱珊云,戴源德,曹杰等. 小管径开缝翅片管式换热器空气侧传热综合性能研究[J]. 流体机械,2022,50(5):68-75. [11] Zhang NC,Dai YD. Performance Assessment of Zeotropic Mixtures for Heat Pump Water Heaters[J]. Journal of Thermophysics and heat transfer,2022,36(1):207-214. [12] Zhang Nuochen, Dai Yuande. Performance evaluation of alternative refrigerants for R134a in automotive air conditioning system[J]. ASIA-PACIFIC journal of chemical engineering,2022,17:1-14. [13] Qiu Ke,Li Biao,Wang Lele,Dai Yuande. Condensation heat transfer characteristics of a mixture of R1234ze(E) and R152a flowing inside a horizontal micro-fin tube[J]. Experimental Heat Transfer,2022,35(1):1-21. [14] Zhang Nuochen,Dai Yuande,Feng Linghao,Li Biao. Study on environmentally friendly refrigerant R13I1/R152a as an alternative for R134a in automotive air conditioning system[J]. Chinese Journal of Chemical Engineering,2022,44(4):292-299. 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