**网站个人信息**

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| --- | --- | --- | --- | --- | --- |
| 姓 名 | 柯招清 | 性 别 | 男 | 照片 |  |
| 国 籍 | 中国 | 学 位 | 工学博士 |
| 所学专业 | 动力工程及工程热物理 | 毕业院校 | 中国科学技术大学 |
| 职 称 | 副教授 | 职称类别 |  | 导师类别 | 硕导 |
| 电子邮件 | kzqing@ncu.edu.cn | 所在单位 | 南昌大学先进制造学院 |
| 个人信息 | **柯招清**，男，福建尤溪人，博士，副教授，硕士生导师。E-mail：kzqing@ncu.edu.cn |
| 教育经历 | 2011.09-2016.06，中国科学技术大学，动力工程及工程热物理，博士（硕博连读）2007.09-2011.07，中国科学技术大学，热能与动力工程，学士，本科 |
| 工作履历 | 2023.12-至今，南昌大学，副教授2021.11-2023.12，南昌大学，校聘副教授2019.08-2021.11，宁德新能源科技有限公司，资深工程师2016.06-2019.08，美国密苏里大学（University of Missouri-Columbia），博士后 |
| 科研项目 | [1] 柔性导热微结构过冷沸腾振动诱发机理及其强化传热研究，国家自然科学基金（52206088），2023.01-2025.12，30万，在研，主持[2] 基于ML-FTM的过冷水滴撞击机翼形貌演变及冻结过程动力学机理研究，江西省自然科学基金（20232BAB204057），2023.07-2026.06，10万，在研，主持 |
| 科研成果 | **代表性论文：**[1] Yanghua Chen, Renjun Wang, **Zhaoqing Ke\*(通讯作者)**, Comparative study of film cooling performance on curved walls with various hole configurations and blowing ratios, Applied Thermal Engineering, 238 (2024), 122195.[2] **Zhaoqing Ke**, Ying Zhang, Heat transfer enhancement in a rectangular channel with flow-induced pitching, heaving or surging of an airfoil, International Communications in Heat and Mass Transfer, 142 (2023), 106657.[3] Zhaoxuan Tang, Tingfang Yu, **Zhaoqing Ke\*(通讯作者)**, Bozhen Lai, Yan Gao, Ying Zhang, Experimental investigation on boiling regime transformation when the binary-droplet impact on the superheated surface, Applied Thermal Engineering, 233(2023), 121194.[4] Ying Zhang, Yu Mao, Yuan Tian, Yichen Huang, Jiansheng Liu, **Zhaoqing Ke\*(通讯作者)**, Effects of continuous wettability on the pool-boiling bubble dynamics and heat transfer characteristics of a triangular structure-roughened surface, Physics of Fluids, 35 (2023), 107110. [5] Ying Zhang, Peilin Lu, Xuhui Huang, Yichen Huang, and **Zhaoqing Ke\*(通讯作者)**, Convective heat transfer in I-shape heat sink under the action of Lorentz force via LBM, Numerical Heat Transfer, Part A: Applications, 83 (2023), 379-399.[6] **Zhaoqing Ke**, Chung-Lung Chen, Kuojiang Li, Sheng Wang, Enhancement of heat transfer by out-of-phase self-vibration through fluid structure interaction, Journal of Enhanced Heat Transfer, 27 (2020), 643-663.[7] **Zhaoqing Ke**, Chung-Lung Chen, Kuojiang Li, Sheng Wang, Chien-Hua Chen, Vortex dynamics and heat transfer of longitudinal vortex generators in a rectangular channel, International Journal of Heat and Mass Transfer, 132 (2019), 871-885.[8] **Zhaoqing Ke**, Junxiang Shi, Bo Zhang, Chung-Lung Chen, Numerical investigation of condensation on microstructured surface with wettability patterns, International Journal of Heat and Mass Transfer, 115 (2017) 1161-1172.[9] **Zhaoqing Ke**, Jianhua Wang, Conjugate heat transfer simulations of pulsed film cooling on an entire turbine vane, Applied Thermal Engineering, 109 (2016) 600-609. [10] **Zhaoqing Ke**, Jianhua Wang, Numerical investigations of pulsed film cooling on an entire turbine vane, Applied Thermal Engineering, 87 (2015) 117-126.[11] **Zhaoqing Ke**, Jian Pu, Jianhua Wang, Lei Wang, Zhiqiang Zhang, Xiangyu Wu, Investigations on fluid flow and heat transfer performances within a real turbine blade channel, In Proceedings of ASME Turbo Expo 2014, GT2014-25097.[12] Peisheng Li, Guozi Zhu, Ying Zhang, Yan Gao, Jian Hong, **Zhaoqing Ke\*(通讯作者)**, Heat Transfer Enhancement of Microchannel with Jets and Ribs, Journal of Thermophysics and Heat Transfer, (2023) DOI10.2514/1.T6788.[13] Ying Zhang, Ruifeng Gao, Yuwei Tu, Yichen Huang, **Zhaoqing Ke\*(通讯作者)**, Numerical Simulation Study of Self-driven Microdroplet on Locally Restrictive Discontinuous Wetting Gradient Surface Using Front Tracking Method, Canadian Journal of Physics, (2023) DOI10.1139/cjp-2023-00091.[14] Peishang Li, Qi Zeng, Ming Ma, Ying Zhang, **Zhaoqing Ke\*(通讯作者)**, Wei Wu, Numerical study of the performance of heat pipe-based thermal management system for power lithium battery, Heat Transfer Research, 54 (2023), 63-77.[15] Ying Zhang, Qinwen Fu, Yao Liu, Bozhen Lai, **Zhaoqing Ke\*(通讯作者)**, and Wei Wu, Investigations of Lithium-Ion Battery Thermal Management System with Hybrid PCM/Liquid Cooling Plate, Processes, 11 (2023).**专利：**[1] **柯招清**. 集流体,电极极片,电化学装置和电子装置:. 发明（中国），ZL 202010534320.0，授权公告日：2022.02.22.[2] **柯招清**. 电芯、电池及用电设备. 发明(中国)，CN202180006011.9 (实质审查的生效: 2022.07.26)[3] **柯招清**，温兆冬. 电极组件和电化学装置. 发明(中国)，CN202210918845.3 (实质审查的生效: 2022.10.25) |