

基本情况

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个人简介

赵万辉，博士，硕士生导师，在发动机喷雾湍流燃烧领域积累了丰富经验，相关研究面向发动机基础燃烧现象。主持国家自然科学基金青年基金 1 项，作为主要参与人参加国家自然科学基金民航联合基金重点项目、重大研究计划重点项目、培育项目和面上项目合计 4 项。在上述项目的支持下，在能源动力领域顶级期刊 Prog Energy Combust Sci (影响因子 35.339)、Combust. Flame、Fuel 等 SCI 期刊累计发表论文 40 余篇，其中以第一/通讯作者身份发表 SCI 论文 17 篇，EI 论文 2 篇，受邀在 Engine Combustion Network 上做报告 1 次，并担任 Phys. Fluids, Fuel, Int. J. Hydrogen Energy, Appl. Therm. Eng., Energy and AI, Journal of the Energy Institute, Sustainable Energy Technologies Assessments, Frontiers in Energy Research 等期刊审稿人。

主讲课程

- 科学计算与 MATLAB 语言

研究方向

- 动力推进系统、湍流燃烧过程数值模拟
- 低碳燃料应用与清洁燃烧技术

研究成果

1. Ting Sun, **Wanhui Zhao***, Tao Wang, Shengyou Liao, Haiqiao Wei, Lei Zhou, Large-eddy simulation of methanol spray combustion characteristics in lean n-heptane mixture environments, **Fuel**, 405 (2026) 136650 (中科院 1 区 top)
2. **Wanhui Zhao***, Ting Sun, Shuqi Liu, Lijia Zhong, Xiaojun Zhang, Lei Zhou*, Haiqiao Wei, Ignition and stabilization of laminar premixed n-heptane/air flames under engine-like conditions, **Fuel**, 344 (2023) 128035 (中科院 1 区 top)
3. Shuqi Liu, Ting Sun, Lei Zhou**, Ming Jia, **Wanhui Zhao***, Haiqiao Wei, A new skeletal kinetic model for methanol/ n-heptane dual fuels under engine-like conditions, **Energy**, 263 (2023) 125648 (中科院 1 区 top)
4. **Wanhui Zhao***, Guiqiang Li, Ting Sun, Ying Zhang, Lei Zhou*, Haiqiao Wei, Numerical Study on the Ignition and Flame Propagation of Ammonia/n-Heptane Dual Fuels, **Energy and Fuels** 37 (2023), 13354-13365 (JCR 1 区)
5. **Wanhui Zhao**, Haiqiao Wei, Lei Zhou*, Zhen Lu, LES study on the interaction between the local flow and flame structure in multi-injection of n-dodecane, **Fuel**, 285 (2021) 119214 (中科院 1 区 top)
6. Lei Zhou, #, **Wanhui Zhao**, #, Kai Hong Luo*, Ming jia, Haiqiao Wei, Maozhao Xie*, Spray-turbulence-chemistry interactions under engine-like conditions, **Progress in Energy and Combustion Science**, 86 (2021) 100939(中科院 1 区 top, 共同一作, 影响因子 35.339)
7. **Wanhui Zhao**, Haiqiao Wei, Ming Jia, Zhen Lu, Kai Hong Luo, Rui Chen, Lei Zhou*, Flame-spray interaction and combustion features in split-injection spray flames under diesel engine-like conditions, **Combustion and Flame**, 210 (2019) 204-221. (中科院 1 区 top, 燃烧领域顶级期刊)