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教育背景

1993-1997 浙江大学能源工程学系 本科
1997-2000 浙江大学能源工程学系 硕士
2004-2008 清华大学热能工程系 博士

工作履历

2000-2004 北京和利时集团公司 自动化工程师
2008-2010 清华大学环境工程系 博士后
2011-2017 清华大学热能系助理研究员
2018-至今 清华大学能动系副研究员

国际燃烧学会会员

煤炭分级转化清洁发电协同创新中心 特聘研究员
中国环保机械行业协会大气污染防治装备专业委员会委员

江苏省第12, 13批科技镇长团成员

生物质（固体废弃物）催化热解利用技术，低热值气高效清洁燃烧技术，燃烧过程有机污染物生成与控制技术等

在研科研项目

- 1.国家重点研发计划：工业锅炉污染物超低排放控制技术，燃煤有机污染物形成与控制，基于多联产的燃煤发电技术，
 - 2.北京科委：天然气锅炉超超低氮燃烧技术装备研发及应用
 - 3.科技部国际合作计划-中美清洁能源研究中心：先进发电及系统分析与建模 (http://kyxxt.cic.tsinghua.edu.cn/htgl.ht_jbxx.do?s_glbm=&s_yxdm=&s_zt=&s_kyxmbh=&s_xmmc=&s_xmfzr=&s_zzxs=&s_xmlym=&s_xmlbbh=&s_sfjt=0&s_sort.p1=&s_sort.p2=&s_sort.p3=&s_sort.asc1=tr)
- 企业合作：多通道旋流气体燃烧技术开发 (http://kyxxt.cic.tsinghua.edu.cn/htgl.ht_jbxx.do?s_glbm=&s_yxdm=&s_zt=&s_kyxmbh=&s_xmmc=&s_xmfzr=&s_zzxs=&s_xmlym=&s_xmlbbh=&s_sfjt=0&s_sort.p1=&s_sort.p2=&s_sort.p3=&s_sort.asc1=tr)
- 温湿耦合低氮节能燃烧技术研究 (http://kyxxt.cic.tsinghua.edu.cn/htgl.ht_jbxx.do?s_glbm=&s_yxdm=&s_zt=&s_kyxmbh=&s_xmmc=&s_xmfzr=&s_zzxs=&s_xmlym=&s_xmlbbh=&s_sfjt=0&s_sort.p1=&s_sort.p2=&s_sort.p3=&s_sort.asc1=tr)
- 基于CO测量控制的高海拔锅炉燃烧优化研究与应用

- 1、燃煤凝汽机组供热改造能量深度梯级利用关键技术及工程应用，2019年中国电力科学技术奖二等奖；
- 2、大型燃煤电站大气污染物近零排放技术研究及工程应用，2016年中国电力科学技术奖一等奖；2017年河北省科学技术进步奖二等奖



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2. 卓建坤; 熊刚; 李水清; 宋蕾; 姚强, 煤粉燃烧过程磷在亚微米颗粒中的转化, *工程热物理学报*, 2009, 30(7): 1237–1240;

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6. 于丹, 卓建坤, 姚强, 硼颗粒点火与燃烧性能研究进展, *燃烧科学与技术*, 2014, 20: 1–7.

7. 何艳峰, 卓建坤, 李水清, 姚强, 污水污泥的燃烧特性及动力学研究, *热动力工程*, 2011, 26(5): 609–637

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11. 张小锋; 卓建坤; 宋蕾; 姚强, 燃烧过程中铅颗粒粒径分布的实验研究, *清华大学学报*, 2007, 47(8): 1347–1351

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13. 张昱轩, 卓建坤, 肖正航, 姚强, 生物质的燃烧特性及积灰结渣特性研究 (<http://thuvip.lib.tsinghua.edu.cn/qk/85857X/201421/662873946.html>), *中国科技纵横* (<http://thuvip.lib.tsinghua.edu.cn/ZK/journal.aspx?q=/85857X/>), 2014, 21: 35–41

14. 宋少鹏, 卓建坤, 李娜, 姚强, 焦伟红, 宋光武, 潘涛, 燃料分级与烟气再循环对天然气低氮燃烧特性影响机理, *中国电机工程学报*, 2016, 36(24): 6849–6858

15. 卓建坤, 焦伟红, 宋少鹏, 宋光武, 熊思江, 姚强, 潘涛, 锅炉燃烧优化NOX预测模型研究进展, *燃烧科学与技术*, 2016, 22 (6) : 531–539

19. 李尚鹏, 卓建坤, 唐勇, 姚强, 存在非加热起始段的热平板着火分析, *工程热物理学报*, 2017, 38 (3) : 657–664

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