

姓名	朱哲	性别	女	出生年月	1984.9	
职称	副教授	学历学位		博士研究生		
硕导所在专业	环境科学与工程 资源与环境					
电话	022-60214747		邮箱	zhuzhe@tjut.edu.cn		
研究方向	固体废物资源化、生物质能源					
主要科研项目及代表性成果(包括项目、论文、专著、获奖、专利等):						
科研项目: 1. 水热液化超富集植物过程中重金属的转化机制研究, 国家自然科学基金青年基金, 主持, 2020.01-2022.12, 25 万, 在研 2. 基于降低城市碳足迹的污水综合处理与资源化研究, 国家重点研发计划子课题, 主持, 2019.08-2022.7, 126 万, 在研 代表性论文、著作、专利等: [1] Gang Wang, Jiaqi Zhang, Jie Yu, Zhe Zhu*, et al. Catalytic hydrothermal liquefaction of sewage sludge over alumina-based and attapulgite-based heterogeneous catalysts. Fuel, 2022, 323: 124329. (SCI 1 区) [2] Zhe Zhu, Xiangyu Guo, Lasse Rosendahl, et al. Fast hydrothermal liquefaction of barley straw: Reaction products and pathways. Biomass and Bioenergy, 2022. (SCI 2 区) [3] Ziyu Wei, Shanshan Zhou, Yuhong Xie, Yongyan Sun, Huimin Ma, Zhanghua Xie, Zhe Zhu*, JinjunYang*. Dual effects of a diamide derivative as nucleator on crystallization kinetics and aggregated structure of biodegradable Poly(ethylene succinate). Polymer Testing, 2021, 94: 107022. (SCI 2 区) [4] Zhe Zhu, Lasse Rosendahl, Toor Sohail Toor, Guanyi Chen. Optimizing the conditions for hydrothermal liquefaction of barley straw for bio-crude oil production using response surface methodology. Science of the Total Environment, 2018, 630: 560–569. (SCI 2 区) [5] Zhe Zhu, Rosendahl L, Toor S S, et al. Hydrothermal liquefaction of barley straw to						

bio-crude oil: Effects of reaction temperature and aqueous phase recirculation. *Applied Energy*, 2015, 137: 183~192. (SCI 1 区)

[6] **Zhe Zhu**, Saqib Sohail Toor, Lasse Rosendahl, et al. Influence of alkali catalyst on product yield and properties via hydrothermal liquefaction of barley straw. *Energy*, 2015, 80: 284~292. (SCI 2 区)

[7] **Zhe Zhu**, Saqib Sohail Toor, Lasse Rosendahl, et al. Analysis of product distribution and characteristics in hydrothermal liquefaction of barley straw in subcritical and supercritical water. *Environmental Progress & Sustainable Energy*. 2014, 33(3): 737~743. (SCI 4 区)

[8] **Zhe Zhu**, Saqib Sohail Toor, Lasse Rosendahl, et al. Experimental Study of Subcritical Water Liquefaction of Biomass: Effects of Catalyst and Biomass Species. DOI:10.1115/ES2014-6708. In: *Proceedings of ASME 2014 8th International Conference on Energy Sustainability*. Boston: ASME, 2014, Vol 2, V002T04A016-V002T04A022. (EI)

[9] **Zhe Zhu**, Saqib Sohail Toor, Lasse Rosendahl, et al. Subcritical hydrothermal liquefaction of barley straw in fresh water and recycled aqueous phase. DOI: 10.1007/978-3-658-04355-1_15. In: Dell G, Egger C. *World sustainable energy days next 2014*. Germany: Springer Vieweg, 2015, XIV: 117-124.

[10] 冯炘, 林祥飞, **朱哲***, 等. 市政污泥与菌糠共水热液化制生物油的研究. *现代化工*, 2021, 2: 92-101. (中文核心)

[11] 张佳, 王刚, **朱哲***, 等. 水热法和热解法处理 Zn、Pb 污染石榴的研究. *现代化工*, 2021, 1: 133-137. (中文核心)

[12] 王刚, 张嘉琪, **朱哲***, 等. 水热液化玉米秸秆制备生物油实验及动力学研究. *山东农业大学学报 (自然科学版)*, 2021, 52(4): 697-703. (中文核心)

[13] **朱哲**, 郭翔宇, 王刚, 等. 发明专利: 一种连续水热液化系统和方法. 授权号: ZL 202110842912.3.

[14] **朱哲**, 王刚, 张嘉琪, 等. 一种金属负载型催化剂及其制备方法和应用. 专利号: 202111341708X

[15] **朱哲**, 郭翔宇, 张烁, 等. 一种基于污泥调质并连续水热液化制备生物油的方法

法. 专利号: 2022108866435.

人才称号:

天津市“131”创新人才第三层次，2016 年