

姓名	朱哲	性别	女	出生年月	1984.9	照片
职称	讲师	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	13207611806	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):						
<p>科研项目:</p> <p>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, 在研</p> <p>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, 在研</p> <p>代表性论文、著作、专利等:</p> <p>[1] Zhe Zhu, Rosendahl, Toor Sohail Toor, Guanyi Chen. Optimizing the conditions for hydrothermal liquefaction of barley straw for bio-crude oil production using response surface methodology. <i>Science of the Total Environment</i>, 2018, 630: 560–569 (SCI 2 区)</p> <p>[2] 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. <i>现代化工</i>, 2021,2: 92-101 (中文核心)</p> <p>[3] 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. <i>现代化工</i>, 2021,1: 133-137 (中文核心)</p> <p>[4] 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. <i>Applied Energy</i>, 2015, 137: 183~192. (SCI 1 区)</p> <p>[5] Zhe Zhu, Saqib Sohail Toor, Lasse Rosendahl, et al. Influence of alkali catalyst on product yield and properties via hydrothermal liquefaction of barley straw. <i>Energy</i>, 2015, 80: 284~292. (SCI 2 区)</p> <p>[6] Zhe Zhu, Saqib Sohail Toor, Lasse Rosendahl, et al. Analysis of product distribution</p>						

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)

[7] **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.

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[8] **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.

人才称号:

天津市“131”创新人才第三层次，2016年