

盛烨泉博士 简历

盛烨泉，硕士生导师

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一、基本情况：

男，汉族，1992 年 1

月生，江苏启东人，工学博士，留美访问学者，长期从事木质纤维生物转化等领域研究。共发表SCI论文30余篇，其中以第一作者或通讯作者在《Chemical Engineering Journal》、《Bioresource Technology》、《ACS Sustainable Chemistry & Engineering》等国际知名学术期刊发表SCI论文16篇，包括高被引论文1篇，引用次数400次以上，研究成果得到国内外同行专家的广泛关注。授权国家发明专利4件。主持江苏省青年自然科学基金、安徽省青年自然科学基金等科研项目。

二、教育背景：

2022年9月至今：安徽工程大学生物与食品工程学院，讲师

2020年9月~2022年9月：南京林业大学，博士后，专业：轻工技术与工程，导师：宋君龙教授；合作导师：夏常磊教授

2016年12月~2019 年4月：美国辛辛那提大学（University of Cincinnati），访问学者，专业：Chemical Engineering，导师：Maobing Tu 教授

2013 年9月~2020

年7月：南京林业大学，博士（硕博连读），专业：林产化学加工工程，导师：徐勇教授

2009 年9月~2013 年6月：南京工业大学，本科，专业：生物工程

三、教学方面

承担了包括《文献检索与科技论文写作》、《生物工程经济与项目管理》等本科课程教学和《生物分离工程综合实验》、《生物化学实验》、《生物化

学综合实验》等实践课程教学，参与了生物工程专业本科生实习、企业实践等实践教学课程，同时指导生物工程综合大实验和本科毕业设计。

四、科研方面

以第一作者或通讯作者共发表SCI论文16篇，如下：

- 1、**Yequan Sheng**, Manqing Liu, Changlei Xia*, Junlong Song, Shengbo Ge, Liping Cai, Su Shiung Lam*, Christian Sonne*. Using nucleophilic naphthol derivatives to suppress biomass lignin repolymerization in fermentable sugar production. **Chemical Engineering Journal**, 2021, 420: 130258
- 2、**Yequan Sheng**, Su Shiung Lam, Yingji Wu, Shengbo Ge, Jinglei Wu, Liping Cai, Zhenhua Huang, Quyet Van Le, Christian Sonne, Changlei Xia*. Enzymatic conversion of pretreated lignocellulosic biomass: A review on influence of structural changes of lignin. **Bioresource Technology**, 2020, 324: 124631
- 3、**Yequan Sheng**, Yong Xu*. Nuclear magnetic resonance analysis of ascorbic acid assisted lignocellulose decomposition in dilute acid pretreatment and its stimulation on enzymatic hydrolysis. **Bioresource Technology**, 2021, 343: 126147
- 4、**Yequan Sheng**, Xin Tan, Yuanjie Gu, Xin Zhou, Maobing Tu, Yong Xu*. Effect of ascorbic acid assisted dilute acid pretreatment on lignin removal and enzyme digestibility of agricultural residues. **Renewable Energy**, 2020, 163: 732-739
- 5、**Yequan Sheng**, Kathirvel Brindhadevi*, Emad M. Eed, Changlei Xia*, Nguyen Thuy Lan Chi. Enzymatic lipase-based methyl esterified *Citrullus colocynthis* L. biodiesel for improved combustion, performance and emission characteristics. **Fuel** 2022, 307: 121899
- 6、**Yequan Sheng**, Thangavel Mathimani, Kathirvel Brindhadevi, Sakeenabi Basha, Ashraf Elfakhany, Changlei Xia*, Arivalagan Pugazhendhi*. Combined effect of CO₂ concentration and low-cost urea repletion/starvation in *Chlorella vulgaris* for ameliorating growth metrics, total and non-polar lipid accumulation and fatty acid composition. **Science of the Total Environment**, 2021, 808: 151969

- 7、 **Yequan Sheng**, Mahbouba Benmati, Salma Guendouzi, Hadjer Benmati, Yan Yuan, Junlong Song, Changlei Xia*, Mohammed Berkani**. Latest eco-friendly approaches for pesticides decontamination using microorganisms and consortia microalgae: A comprehensive insights, challenges, and perspectives.
- 8、 **Yequan Sheng**, Yu Zhang, Hongzhi Ma, Yong Xu*, Maobing Tu*. Enhancing Prehydrolysates Fermentability by Adding Nucleophilic Amino Acids and Proteins in Biomass Pretreatment. **ACS Sustainable Chemistry & Engineering**, 2020, 8(21): 7892-7900
- 9、 **Yequan Sheng**, Sabarathinam Shanmugam, Arunachalam Chinnathambi, Saleh H. Salmen, Shengbo Ge, Changlei Xia*, Kathirvel Brindhadevi*. Feasibility of microalgal and macroalgal biomass co-digestion on biomethane production. **International Journal of Hydrogen Energy**, 2022, 47 (88), 37394-37400.
- 10、 **Yequan Sheng**, Mathiyazhagan Narayanan, Sakeenabi Basha, Ashraf Elfakhany, Kathirvel Brindhadevi, Changlei Xia*, Arivalagan Pugazhendhi*. In vitro and in vivo efficacy of green synthesized AgNPs against Gram negative and Gram positive bacterial pathogens. **Process Biochemistry**, 2022, 112: 241-247.
- 11、 **Yequan Sheng**, Xin Tan, Xin Zhou, Yong Xu*. Bioconversion of 5-Hydroxymethylfurfural (HMF) to 2,5-Furandicarboxylic Acid (FDCA) by a Native Obligate Aerobic Bacterium, *Acinetobacter calcoaceticus* NL14. **Applied Biochemistry and Biotechnology**, 2020, 192(2): 455-465.
- 12、 Li Wen, Xin Tan, Daihui Zhang, Yuan Jia, **Yequan Sheng***, Chenhuan Lai*, Qiang Yong. Effect of pretreatment severity on the inhibitory behaviors of larch lignins in enzymatic hydrolysis. **Industrial Crops and Products** 2023, 197.
- 13、 Manqing Liu, Shida Zuo, Yunyi Liang, **Yequan Sheng***, Shengbo Ge, Jinglei Wu, Hongzhi Ma, Tansir Ahamad, Quyet Van Le, Changlei Xia*. The influence of 3-hydroxy-2-naphthoic acid on agricultural wastes extracted sugar production used as energy sources. **Fuel**, 2022, 323: 124235
- 14、 Libo Zhang, Xiao Yang, **Yequan Sheng***, Qiguang Huang, Zhilin Yang, Yang Shi, Xuqiang Guo, Shengbo Ge*, Influence of typical pretreatment on cotton stalk conversion activity and bio-oil property during low temperature (180–220°C) hydrothermal process. **Fuel** 2022, 328, 125250.

15、Xiaocui Yang, Xiaoliu Liu, **Yequan Sheng***, Hanzhou Yang, Xinshuai Xu, Yuheng Tao and Minglong Zhang*. Optimization of Different Acid-Catalyzed Pretreatments on Co-Production of Xylooligosaccharides and Glucose from Sorghum Stalk. **Polymers (Basel)**, 2022, 14(4): 830.

16、Deming Chen, Xin Tan, Yang Shi, Wenjing Tang, Hui Wang*, **Yequan Sheng***, Wei Fan and Shengbo Ge*. Phosphoric acid pretreatment of poplar to optimize fermentable sugars production based on orthogonal experimental design. **Frontiers in Chemistry** 2023, 11.

授权发明专利

1、**盛烨泉**; 夏常磊; 葛省波; 石洋; 周益辉; 樊威; 张明龙; 刘胜强 ; 一种利用生物质裂解气催化合成生物燃料的方法, 2022-09-06, 中国, CN202111540878.0 (授权专利)

2、徐勇; **盛烨泉**; 朱均均; 连之娜; 余世袁; 勇强; 欧阳嘉 ; 一种基于正相和反相高效液相色谱联用测定5-羟甲基糠醛及其衍生物的方法, 2016-5-20, 中国, CN201610347503.5 (授权专利)

3、葛省波; 石洋; 夏常磊; 张仲凤; **盛烨泉**; 周益辉; 张明龙; 叶浩然; 樊威 ; 一种微波预处理木粉制备无胶自结合环保人造板的方法, 2021-11-29, 中国, CN114030051A (授权专利)

4、葛省波; 石洋; 夏常磊; 张明龙; **盛烨泉**; 樊威; 周益辉; 张仲凤 ; 一种利用微波固化的复合人造板的制备方法, 2022-08-23, 中国, CN202111540877.6 (授权专利)

科研项目，如下：

1、2021.7-2024.6，基础研究计划（自然科学基金）- 青年基金项目，江苏省科技厅，在研，主持

2、2023.1-2024.12，林产化学与材料国际创新高地- 开放基金，南京林业大学，在研，主持

3、2022.10- 2025.9，安徽工程大学引进人才科研启动基金，安徽工程大学，在研，主持。