

Yanan Zhao



Research Area: Energy and Environment

TEL: (+1)414-595-383 **Date of birth:** February 1991

E-mail: zhao76@uwm.edu **Hobbies:** Running, Reading, Swimming

Education

Undergraduate Student 08/2010 - 06/2014

Department of Environmental science, China university of petroleum

Master Student 08/2016 - 06/2019

Department of Environmental science, China university of petroleum

PhD Student 01/2020-

Civil and Environmental Engineering, University of Wisconsin-Milwaukee

Research Projects

1. Experimental work on the treatment and disposal of cyanide-containing waste residue in gold smelting enterprises;
2. Experimental work on conversion of biomass waste into renewable resources by hydrothermal technology;
3. Experimental work on the treatment of oily sludge and biochemical sludge by wet oxidation;
4. Experimental work on hydrothermal degradation of polystyrene plastics;
5. Experimental work on treating residual sludge of biochemical tank by hydrothermal method;
6. Study on the preparation of high value-added chemicals from biomass waste.

Research Achievements

1. **Yanan Zhao**, Xiuyi Yan, Jinghui Zhou, et al. Treatment of oily sludge by two-stage wet air oxidation. Journal of the Energy Institute, 2018. (SCI)
2. Xiuyi Yan, Jiuli Ma, Wei Wang, **Yanan Zhao**, Jinghui Zhou. The Effect of Different Catalysts and Process Parameters on the Chemical Content of Bio-oils from Hydrothermal Liquefaction of Sugarcane Bagasse. BioResources, 2017. (SCI)

3. **Yanan Zhao**, Xiuyi Yan, Wei Wang, et al. Experimental study on hydrothermal degradation of polystyrene plastics. Environmental Engineering, 2016. (Chinese core journal)
4. Xiuyi Yan, Qiangbin Zhang, **Yanan Zhao**, et.al. A treatment method for cyanide-containing slag in the process of gold smelting, Patent Number: 201510125124.7 (Patent for invention)
5. Xiuyi Yan, **Yanan Zhao**, Shuai Yang, et. al. A treatment method of oily sludge, Publication Number: CN106904802 (Patent for invention)
6. Xiuyi Yan, Jiuli Ma, **Yanan Zhao**, Jinghui Zhou Hydrothermal liquefaction of sugarcane bagasse to bio-oil, the 2nd International Conference on Bioresource Technology for Bioenergy, Bioproducts & Environmental Sustainability, 2018.9, Spain.

Skill and Certificates

- ☆ Good knowledge of hydrothermal and biomass; Skilled in Word, Excel, PPT;
- ☆ Good command of Origin、 ChemDrow、 iMindMap;
- ☆ Skilled in HPLC, GC-MS;
- ☆ Skilled in biochemical tests: COD, BOD, TP, NH3-N, TN
- ☆ skilled in using methods of orthogonal, response surface design experiment

Award and Scholarship

National Scholarship for Postgraduate Students	12/2018
Major Award	10/2018
Major Award	10/2017
Minor Award	10/ 2016
Outstanding Graduate	06/2014
Academic Scholarship	10/2014
First Prize of Scientific and Technological Innovation	11/2013
Academic Scholarship	10/2013
Academic Scholarship	10/2012
First Prize of Social Practice	09/2011
Academic Scholarship	10/2011
