Phone: +86 18640067759
Email: pengyu.ypy@gmail.com
Address: No.30, Xinri Street,
Dalian, China, 116000

YAN PENGYU

EDUCATION BACKGROUND

Virginia Polytechnic Institute and State University Blacksburg, VA
Master of Science, Major in Environmental Engineering 01/2016-01/2018
Overall GPA 3.5/4.0

Tianjin University Tianjin, China
Bachelor of Science, Major in Environmental Science 09/2011-06/2015
Overall GPA 3.1/4.0

RESEARCH EXPERIENCE

Cathode Modification/Characterization of Microbial Fuel Cells (MFC)
—Nankai University 06/2014-07/2015

- Reviewed literature on the topic of MFC and categorized papers using Endnote for group members' convenience; took part in group meeting discussions and contributed research ideas;
- Set up the single-compartment MFC; managed to stabilize all biological parameters for consistent measurements;
- Conducted Electrochemical measurements and was capable of using apparatus including voltammetry, impedance spectroscopy and potentiostat;
- Collected, interpreted, analyzed and compiled data; prepared records and preliminary reports for group discussions;
- Participated in paper writing using LaTeX and listed as the 2nd author of the paper published on *Bioresource Technology*;
- Independently initiated the project by taking advantage of the ideas during the last project; utilized copper-based catalyst to replace Pt in traditional MFC application.

Cathode Modification of MFC—Tianjin University 12/2014-06/2015

- Undergraduate thesis topic, optimized cathode materials of MFC and provided possibilities for large-scale application;
- Trained new group members in Dr. Liu's team with basic lab procedures.

Dual functional cathodes applied in MEC and MFC—Virginia Tech 09/2016-01/2018

- Cooperated with a research group from the Department of Chemistry coating copper and copper oxide on carbon cloth using the electrodeposition method.
- Pre-tested the cathodes using electrochemical methods, including LSV, EIS, and XPS tests.
- Applied the new cathodes in MFCs and MECs and monitored the current generation and hydrogen gas production by making polarization curve and calculating the reactors' efficiencies.

PUBLICATIONS

--Zhang, X., Yan, P.Y., Liu, Z.Q., Pu, L.T., Li, K.X., 2015. N-type Cu2O doped activated carbon as catalyst for improving power generation of air cathode microbial fuel cells. Biores. Technol. 187, 299–304.

STANDARDIZED TESTS

TOEFL:96	Reading: **25**, Listening: **24**, Speaking: **24**, Writing: **23**	07/2015
GRE:	Verbal: **159**, Quantitative: **166**, Analytical Writing: **3.0**	01/2022