

PERSONAL INFORMATION

Name: Feng Qiao

Gender: Male

Date of Birth: 05-29-1987

Birth Place: Jinan, Shandong Prov., China

Mailing Address: 520 West 122nd Street, APT #31B, New York, NY, 10027

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EDUCATION BACKGROUND

Columbia University, New York, NY, USA

Dec 2011 - present

- **Degree:** Ph.D., expected in Jul 2014
- **Major:** Chemical Engineering
- **Emphasis:** Explore alternative additives to improve direct electrodeposition of copper

Columbia University, New York, NY, USA

Sep 2010 - Dec 2011

- **Degree:** Master of Science
- **Major:** Chemical Engineering
- **GPA:** 3.97/4.20

Tianjin University, Tianjin, China

Sep 2006 - Jul 2010

- **Degree:** Engineering Bachelor
- **Major:** Chemical Engineering
- **GPA:** 3.79/4.00

RESEARCH AND WORK EXPERIENCES

Department of Chemical Engineering

Dec 2011 - present

- **Working place:** Columbia University, New York, USA
- **Position:** Research Assistant & Candidate for Ph.D. degree
- **Current project:** The effect of Fe(III)/Fe(II) redox couple on nucleus density during Cu electrodeposition process
- **Duty:** Responsible for both of the experiments and modeling of the project

Cooperative Research Centre for Greenhouse Gas Technologies (CO2CRC) Aug 2009 - Sep 2009

- **Working place:** the University of Melbourne, Melbourne, Australia
- **Position:** Research Assistant
- **Project:** Impact of Film Thickness and Plasticization towards Transport Properties of Matrimid[®] 5218 Membranes
- **Duty:** Fabricate membranes with different thicknesses through solution casting method and test their density as well as transport properties.

Tianjin Key Laboratory of Membrane Science and Desalination Technology Sep 2008 - Sep 2009

- **Working place:** Tianjin University, Tianjin, China
- **Position:** Research Assistant
- **Project:** the Development of New Amine Polymer for Making Membranes with Better Separation Properties

- **Duty:** Fabricate membranes through interfacial polymerization method and test their separation factors and permeation rates.

Research and Development Centre

Jul 2008 - Sep 2008

- **Working place:** Shandong Sinder Technology Co. Ltd, Qingdao, China
- **Position:** Research Intern
- **Project:** Research on Factory Production of Albendazole Sulfoxide Hydrochlore
- **Duty:** Conduct experiments to optimize hydrochloric acid concentration and consumption of acetone for factory production of Albendazole Sulfoxide Hydrochlore.

Tianjin Dagang Branch of China National Petroleum Corporation

Oct 2008

- Visiting practice to further understand the process of chemical industry

SCHOLARSHIPS AND HONORS

- PPG Enterprise Scholarship, Dec 2009
- Samsung Enterprise Scholarship, Nov 2008
- **National Scholarship, Nov 2007 (awarded by China's Ministry of Education)**

PUBLICATIONS

[1] F. Qiao, B. O'Brien, K. Dunn, A. West, "The effect of Fe(III)/Fe(II) redox couple on nucleus density during Cu electrodeposition process", Journal of the Electrochemical Society, accepted

PRESENTATIONS

- Feng Qiao, "Copper Electrodeposition onto Barrier and Ultrathin Seed Layers", NYCAIST, IPS Back End Processes and Packaging Review, via web conference, Research Triangle Park, NC (Oct 2012)
- Feng Qiao, "Copper Electrodeposition onto Barrier and Ultrathin Seed Layers", NYCAIST, IPS Back End Processes and Packaging Review, Univ. at Albany – SUNY, College of Nanoscale Science & Engineering, Albany, NY (Oct 2011)

COMPUTER SKILLS

Programming: VS C++, Matlab

Office Tools: MS Word, Excel, PowerPoint, Outlook

Operating System: Windows, Mac OS

Design: Chem CAD, AUTO CAD, Aspen