



JIAO ZHANG

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EDUCATION

COLUMBIA UNIVERSITY

Fu Foundation School of Engineering and Applied Science

New York, NY

MS in Environmental Engineering, GPA: 3.7/4.0

Dec 2013

- Courses: Industry Ecology of Earth Resources, Environmental Data Analysis and Modeling, GIS-Resource, Environment and Infrastructure, Air pollution Prevention and Control

NANKAI UNIVERSITY

School of Environmental Science and Engineering

Tianjin, China

B.S. in Environmental Engineering, GPA: 90/100

Jun 2011

- Courses: Solid waste treatment and disposal

EXPERINENCE

Earth Engineering Center, Columbia University

New York, NY

Research Associate

Mar 2014-

Earth Engineering Center, Columbia University

New York, NY

Junior Research Associate

Mar 2013-Jan 2014

Life Cycle Analysis of using alternatives fuels (AF) versus fossil fuels in US cement production (Initiated by CEMEX company)

- Investigated the energy use in US cement industry to get the trend of AF utilization
- Performed paper review, data collection and compared original stack gas emissions from cement plants to EU standard, to examine the stack emission effect of using AF in cement industry
- Applied Life Cycle Analysis to assess the CO₂ effect of using Engineered Fuel in cement production
- Conducted the impact research of using AF in cement industry on solid Waste Management

Nankai University

Tianjin, China

Research assistant

Apr 2009- Aug 2009

Extraction of Endocrine Disrupters based on ionic liquid and Design of Passive sampling device

- Improved the design of Passive sampler, halving the producing and processing fee of the sampler
- Conducted the work of sampling and sample injection, processed the relevant data by applying computer

PUBLICATIONS

1. Zhang, J., 2014. "Energy, environmental and greenhouse gas effect of using alternative fuels in cement production", WTER Thesis Publication, Columbia University, New York, USA.
2. Yang, J., L. Wang, C. Chen, J. Zhang and H. Sun. "Determination of three perfluoro-sulfonated chemicals in bivalve shells using high performance liquid chromatography-tandem mass spectrometry with the pretreatment of mixed inorganic acid digestion coupled with solid-phase extraction," Chromatograph 2010(5).

SKILLS

Microsoft Office, C++, Simapro, ArcGIS, AutoCAD, R