
OBJECTIVE

Admission to Mechanical Engineering/Power Engineering graduate programs

EDUCATION

B.E. in Mechanical Engineering

Peking University (PKU)

Beijing, China

2010.09–2014.06

- GPA: 100/100
 - Rank: 1/23
 - IELTS 6.5 (R 7, L 7, S 7, W 7), GRE 325 (Verbal 160, Quantitative 165, AW 6.0)
 - Featured courses: Mechanical Design 92, Computer Control System Power Engineering 94, Computer Aided Technique 89, Technology of CAD 91, Analogue Electronics 90, Industrial Practice 90, Experiment on Foundation of Project Control 95
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PUBLICATION

- Yu, X., Biodegradable polymer microcapsules fabrication through a template-free approach. *Langmuir* 2011, 27, 10265 -10273. (IF=4.186)
 - Yu, X. (co-first), Generation of polymer nanocapsules via a membrane-extrusion emulsification approach. *Materials Letters* 2012, 77, 96-99. (IF=2.307)
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WORK EXPERIENCE

Research Assistant, State Key Laboratory of Coal Combustion

Advisor Prof. YAO, Hong

—*Gas-solid Reaction Kinetics Analyzer*

2013.03–present

- Verified the flow field distribution stimulated by CFD
- Tested the pressure distribution and particle trajectory in the flow field
- Wrote the online data collection and processing program for the CO₂ detector, the detector together with the program was patented as new invention, **PATENT NO. 201310438571.9**

Modeling the Pulverized Coal Combustion in a Single Burner Furnace

—*Supervised by Prof. FANG, Qingyan*

2013.05

- Stimulated velocity field, temperature field, oxygen concentration field of the furnace with CFD
 - Optimized the combustion condition considering different impact factors
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INTERNSHIP

Marketing Assistant

Pepsi China, Beijing

Marketing data analysis

2013.07–2013.08

Operational Department Assistant

Xiangyang Power Plant

Steam turbine maintenance

2013.06–2013.07

SKILLS

VC/VB/Matlab/Access/SQL Server/Fluent/Gambit/L^AT_EX