DREAM CODER

CONTACT INFO

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OBJECTIVE

Admission to Mechanical Engineering/Power Engineering graduate programs

EDUCATION

B.E. in Mechanical Engineering , Peking University (PKU)   *2010.09–2014.06*
Beijing, China
- 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

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)

WORK EXPERIENCE

Research Assistant , State Key Laboratory of Coal Combustion   *2013.03–present*
Advisor Prof. YAO, Hong
—Gas-solid Reaction Kinetics Analyzer Based on Micro-dual Bed Fuel-staging Thermal Transition China NSF Funding: 2011YQ120039
- 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 CO_2 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   *2013.05*
—Supervised by Prof. FANG, Qingyan
- Stimulated velocity field, temperature field, oxygen concentration field of the furnace with CFD
- Optimized the combustion condition considering different impact factors

INTERNSHIP

Marketing Assistant, Pepsi China, Beijing   *2013.07–2013.08*
Marketing data analysis

Operational Department Assistant, Xiangyang Power Plant   *2013.06–2013.07*
Steam turbine maintenance

SKILLS

VC/VB/Matlab/Access/SQL Server/Fluent/Gambit
LaTeX