DreamCoder

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programming
♥ Matlab,
Access ,VC ,VB
SQL Server, Fluent,
Gambit
LaTeX

Objective

Admission to Mechanical Engineering/Power Engineering graduate programs

Education

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

2013.03–present **Research Assistant, State Key Laboratory of Coal Combustion**
—Gas-solid Reaction Kinetics Analyzer Based on Micro-dual Bed Fuel-staging Thermal Transition China NSF Funding: 2011YQ120039   Advisor Prof. YAO, Hong
- 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**

Internship

2013.07–2013.08 **Marketing Assistant**   Pepsi China, Beijing
Marketing data analysis
2013.06–2013.07 **Operational Department Assistant**   Xiangyang Power Plant
Steam turbine maintenance

Skills

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