

# DR. RONG FAN

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## EDUCATION

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Sept., 1996 ~ Nov., 2001	Department of Chemical Engineering at <b>Zhejiang University</b> , Hangzhou, P. R. China
Major	Chemical Engineering
Academic Degree	Doctor of Philosophy
Thesis Project	<b>Study on the Kinetics and Reaction Engineering Problem of Syndiotactic Polymerization of Styrene with Homogeneous Metallocene Catalysts</b> Research Advisor: Professor Bo-Geng Li Funded by National Natural Science Foundation of China and SINOPEC
GPA	3.52(overall), for 4.0 grading system
Sept., 1989 ~ July, 1993	Department of Chemical Engineering, <b>Suchow University</b> , P. R. China
Major	Chemical Engineering
Academic Degree	Bachelor of Science
Thesis Project	<b>Fundamental Studies on devolatilization of SMA Resin</b> Research Advisor: Professor Qingming Pan Funded by SINOPEC
GPA	GPA: 3.70(overall), for 4.00 Grading System

## WORK EXPERIENCES

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Postdoctoral Fellowship at Department of Chemistry, <b>The University of Liverpool</b> , UK	2002 ~ present
Research Assistant at Department of Chemical Engineering, <b>Zhejiang University</b> , P. R. China	1996 ~ 2001
Teaching Assistant at Department of Chemical Engineering, <b>Suchow University</b> , P.R. China	1993 ~ 1996

### *Projects Conducted:*

• Synthesis of Low Cost Surfactant Used in Supercritical Carbon Dioxide	2002 ~ present
• Studies on Reaction Engineering of Syndiotactic Polymerization of Styrene with Homogeneous Metallocene Catalysts	1997 ~ 2001
• Synthesis and Supporting of Homogeneous Metallocene	1996
• Separation of Ethanol/Water Mixture by Pervaporation	1996
• Synthesis and Characterization of Super Adsorption Resin by Inverse Suspension Polymerization	1994 ~ 1995
• Microwave Initiated Polymerization of Acrylic Acid and Acrylate	1993 ~ 1994
• Fundamental Studies on devolatilization of SMA Resin	1993

## TEACHING EXPERIENCES

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1996 ~ present	Research Assistant for an Independent Research Program for undergraduate Students, <i>Zhejiang University</i>
1993 ~ 1996	Instructor of "Chemical Reaction Engineering" for Undergraduate Students, <i>Suchow University</i>
1993 ~ 1996	Instructor of "Fine Chemical Engineering Experiment" for Undergraduate Students, <i>Suchow University</i>
1995	Instructor of "Organic Chemistry Experiment" for Undergraduate Students, <i>Suchow University</i>

## AWARDS RECEIVED

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First-Class DongGang Scholarship for Doctoral Students, 2000;  
ZhuangShi Scholarship, 1999;  
Excellent Graduate Student, 1998, 1999;  
First-Class Guanghua Scholarship, 1998;  
"Zhejiang University & Xianju" Excellent graduate Student Scholarship, 1997;  
Outstanding Undergraduate Student Scholarship of Suchow University, 1993;  
Excellent Student Pacemaker of Suchow University, 1992;  
Excellent Student, 1990, 1991;  
First-Class People's Scholarship, 1990, 1991;  
Zhujingwen Scholarship, 1990, 1991, 1992, 1993;

## PUBLICATIONS

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Conference Papers:

1. Rong Fan, Kun Cao, Baofang Li and Bo-Geng Li, "*Bulk Syndiotactic Polymerization of Styrene with Cp\*TiCl<sub>3</sub>/MAO/Al(i-Bu)<sub>3</sub> Metallocene Catalyst ----- Particle Morphology and Nucleation Mechanism*", The 3<sup>rd</sup> Joint China/USA Chemical Engineering Conference, 2000.8, Beijing, 10-074
2. Rong Fan, Wei Liu, Kun Cao, Lianfang Feng, et al., "*Preparation and Mechanism Studies on Powdery Syndiotactic Polystyrene*", Tenth National Symposium on Chemical Engineering, 2000.5, Zhenzhou
3. Bo-Geng Li, Rong Fan, Kun Cao, Baofang Li, "*Bulk Precipitation Polymerization of Styrene with Cp\*TiCl<sub>3</sub>/MAO/Al(i-Bu)<sub>3</sub> Metallocene Catalyst ----- Nucleation Mechanism and Particle Morphology*", China-Germany Symposium on Organometallic Catalysts and Olefin Polymerization, Hangzhou, 2000.10, 43
4. Wei Liu, Rong Fan, Kun Cao, Bo-Geng Li, et al., "*Kinetics and Polymer Morphology of Syndiotactic Bulk Polymerization of Styrene*", Symposium of Polymerization and Polymer Reaction Engineering with Metallocene Catalyst, Hangzhou, 1998.9, 55

Journal Papers and Books:

1. Rong Fan, Wei Liu, Bo-Geng Li and Baofang Li, "*Advances in Supported Metallocene Catalysts for Olefin Polymerization*", Polymeric Materials Science and Engineering(Chinese), 1999, 15(6), 1
2. Rong Fan, Bo-geng Li, Wei Liu, et al, "*Agitation Effect on the Preparation of Syndiotactic Polystyrene with Homogeneous Metallocene Catalyst*", J. Chem. Eng. of Chinese Univ.(Chinese), 2001, 15(5), 429

3. Rong Fan, Kun Cao, Baofang Li, Hong Fan, Bo-Geng Li, "*Morphology and Crystallinity of Nascent sPS in Bulk Polymerization with Homogeneous Metallocene Catalyst*", European Polymer Journal, 2001, 37(11), 2335
4. Rong Fan, Bo-Geng Li, Kun Cao, et al., "*Full-range kinetic study of bulk syndiotactic polymerization of styrene with homogeneous metallocene catalyst*", Accepted by J. Appl. Polym. Sci., 2001
5. Bo-Geng Li, Rong Fan, "*Synthesis of Powdery Syndiotactic Polystyrene with Homogeneous Metallocene Catalysts ----- Kinetics and Morphologies*", Organometallic Catalysts and Olefin Polymerization, edited by Junquan Sun, Hangzhou, 2000
6. Wei Liu, Bo-Geng Li, Rong Fan, Kun Cao and Zuren Pan, et al., "*Study on Syndiotactic Polymerization of Styrene with Metallocene*", Chemical Reaction Engineering and Technology(Chinese), 1999(3), 221
7. Rong Fan, Xiulin Zhu, Jianmei Lu, Mei Gu, "*Studies on Inverse Suspension Polymerization of Sodium Acrylate and Water Adsorption Properties of the Obtained Polymers*", Polymeric Materials Science and Engineering(Chinese), 1995, 11(6), 25
8. Keda Zhang, Ke Song, Rong Fan, "*Separation of Ethanol/Water Mixture by Pervaporation through the Blend Membrane of Sodium Alginate with PVA*", Polymeric Materials Science and Engineering(Chinese), 1998, 14(1), 52
9. Keda Zhang, Rong Fan, "*Preparation of Benzil by Oxidation with Air*", Chinese Chemical Letters, 1996, 7(1), 7
10. Mei Gu, Jianmei Lu, Xiulin Zhu and Rong Fan, "*Polymerization of Acrylamide by Microwave*", Polymeric Materials Science and Engineering(Chinese), 1997, 13(5), 2
11. Rong Fan, Bo-Geng Li, "*Synthesis of Syndiotactic Polystyrene(sPS) with Homogeneous Half-Titanocene ----- Molecular Weight and Molecular Weight* ", Submitted
12. Rong Fan, Bo-Geng Li, "*Mechanism of Gelation and Granulation of Nascent Syndiotactic Polystyrene during Bulk Polymerization*", Submitted
13. Rong Fan, Bo-Geng Li, "*Crystallization during Bulk Syndiotactic Polymerization of Styrene with Homogeneous Half-Titanocene ----- Nucleation Mechanism and Crystallization* ", In preparation
14. Rong Fan, Bo-Geng Li, "*Effects of TIBA on the kinetics of Syndiotactic Polymerization of Styrene with Cp\*TiX<sub>3</sub>/MAO catalyst*", In preparation

## RESEARCH INTERESTS

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Synthesis of Functional Macromolecules;

Supercritical Polymerization;

Kinetic Modelling and Simulations on Olefin Polymerization Process;

Design and Scaling-up of Polymerization Reactor ;

Nascent Polymer Morphology

## COMPUTER EXPERIENCE

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Good command of operating the following software:

- Programming Languages: C/C++, Basic;
- Software Packages: Matlab, Origin, AutoCAD, Microsoft Office series, Visio, etc.;
- Operating Systems: Windows NT Workstation, Windows 95(/98), Win31, DOS.