

Dr Tan Bien

Personal Information

Marital status: Married

- Gender: Male
- Nationality: Chinese
- Date of Birth: 13/07/1971
- Place of Birth: Enshi, China

Professional experience

2001-Present Department of Chemistry, The University of
Liverpool Liverpool, UK

Senior Research Assistant

- Emulsion polymerization
- Synthesis of smart polymer nanospheres for targeted delivery

1999 - 2001 National Key Laboratory of Advanced Materials,
Beijing Institute of Aeronautical Materials Beijing, China

Postdoctoral Fellow

- Polymer matrix composites
- High-temperature polyimide matrix composites
- Mechanism of thermal plastic toughen epoxy resin matrix composites
- Core-shell emulsion latex toughen epoxy resin matrix composites

Education

1996 - 1999 College of Material, South China University of Technology
Guangzhou, China

 Aerospace Institute of Materials and Processing, China Launch
Vehicle Academy of Technology Beijing, China

PhD

- Polymer material science and engineering
- Addition type silicone rubber
- Effects of space environment (atomic oxygen, UV, electromagnetic rays, high vacuum) on polymer material
- Silicone thermal control coatings being applied in satellite

1993 - 1996 Chemistry Department, Hubei University Wuhan, China
Master

- Polymer material science and engineering
- Emulsion polymerization
- Miniemulsion polymerization
- Functional emulsion polymerization
- Concentrated emulsion polymerization

	1989 - 1993 Chemistry Department, Hubei University Wuhan, China
	Bachelor
	<ul style="list-style-type: none"> ▪ Organic Chemistry ▪ Organic synthesis
Degree	Bachelor paper
Dissertations	<ul style="list-style-type: none"> ▪ <i>Synthesis of Intermediate for a Novel Anti-cancer Medicine</i>
	Master thesis
	<ul style="list-style-type: none"> ▪ <i>Effects of Polymerization methods on Functional Emulsion Property</i>
	Doctor dissertation
	<ul style="list-style-type: none"> ▪ <i>Behaviours of Space Grade Addition Silicone Rubber in the Space Simulation Environment and Its Application on Thermal Control Coatings</i>
Science Research	<p>Project supported by National Science Foundation of China</p> <ul style="list-style-type: none"> ▪ <i>Studies on Nucleation of Miniemulsion Polymerization with Redox Initiators</i> <p>Project supported by Natural Science Foundation of Hubei Province</p> <ul style="list-style-type: none"> ▪ <i>Effects of Polymerization methods on Functional Emulsion Property</i> <p>Project supported by “Ninth Five-Year-Plan” of National Defence Study Foundation</p> <ul style="list-style-type: none"> ▪ <i>High Performance Thermal Control Coatings</i> <p>Project supported by China Postdoctoral Science Foundation</p> <ul style="list-style-type: none"> ▪ <i>Study on Reaction Mechanism of TMS-I Polyimide Resin and Its Composites</i>
Awards received	<p>Doctor degree dissertation has been chosen to be a candidate of the top 100 doctor's dissertation in china</p>
Computer	<p>FORTRAN, Basic were studied in the university, Pascal, Turbo C were also learned by myself. I can edit programs with them. MS Office and Windows were mastered, Information in English and Chinese are both easily treated to satisfy the requirements.</p>
Characteristic	<p>I like to study the mystery of the world, have broad mind and indomitable will, like to make friends, good at table tennis, volley ball and so on. For I believe tomorrow will be better, I can work under pressure.</p>
Publications	<p>2002</p> <p>[41] Behaviors of Addition Type Silicone Rubber in Space Atomic Oxygen Environment Simulated, Tan Bien, Zhang Lianzheng, Zeng Yibing, He Fei, <i>Acta Polymeric Sinica</i>, Submitted</p> <p>[40] Preparation of addition type silicone rubber and its property, Tan Bien, Zhang Lianzheng), Hao Zhigang, Zeng Yibing, Pan Huiming, <i>Polymer Material Science and Engineering</i> ,Accepted</p>

[39] High-temperature Polyimide Composites), **Tan Bien**, Yi Xiaosu, *Polymer Material Science and Engineering*, Accepted

[38] Behaviors of Addition Type Silicone Rubber in Space Atomic Oxygen Environment Simulated, **Tan Bien**, Zeng Yibing), Zhang Lianzheng, *Journal of Materials Engineering*, Accepted

[37] Synthesis of UV Curable Modified Polysiloxane and Its Surface Property, **Tan Bien**, Pan Huiming, Chen Xiaohui, *Journal of Applied Polymer Science*, In press

2001

[36]Interphase and its formational mechanism of GF/PVC composite prepared by aqueous suspension impregnation) , Yi Changhai, **Tan Bien**, Zeng Hanmin, *Journal of Aeronautical Materials* , 2001

[35]Preparation of Stable Miniemulsion, **Tan Bien**, Zhang Hongtao, Hu Fang, Li Jianzong, *Polymer Material Science and Engineering* , 2001(2): 90~93

[34] Study on Addition Type Silicone Thermal Control Coatings) , **Tan Bien**, Zeng Yibing, Zhang Lianzheng, *Chinese Journal of Space Technology*, 2001(3)

[33]Behaviors of Addition Type Silicone Thermal Control Coatings in Space Environment Simulated, **Tan Bien**, Zeng Yibing), Zhang Lianzheng, *Chinese Journal of Space Technology* , 2001(4)

[32] Preparation of Platinum Catalyst for Addition Silicone and Their Catalysis Activity, **Tan Bien**, Zhao Hua, Pan Huiming, *Chinese Adhesives*, 2001(4)

[31]Low Molecule Weight Material Removal from Silicone Rubber, **Tan Bien**, Zeng Yibing, Zhang Lianzheng, *Aerospace Materials and Technology*, 2001(3)

[30] Study on Vulcanization Process of Silicone Addition Rubber, **Tan Bien**, Zhu Bo, Zhang Lianzheng, Hao Zhigang, *China Synthetic Rubber Industry*, 2001, 24(2): 103~104

[29] High Temperature Polyimide Composites and Its Application in Aeronautical Engine, **Tan Bien**, Yi Xiaosu, *Journal of Aeronautical Materials*), 2001(3)

[28] Mechanical Properties of Addition Type Silicone Rubber in Space Electromagnetic Environment Simulated, **Tan Bien**, ,Zhu Bo, Zeng Yibing, Zhang Lianzheng, Pan Huiming, *Special Purpose Rubber Products*, 2001(3)

[27] Behaviors of addition type silicone rubber in space ultraviolet environment simulated, **Tan Bien**, Yin Zhaohui, Pan Huiming, Zhang Lianzheng, Zeng Yibing, *Journal of Functional polymer*, 2001(4)

2000

[26] Study on Kinetics and Nucleation Mechanism of St-BA Miniemulsion Polymerization with Redox Initiators, **Tan Bien**, Zhang Hongtao, Hu Fang, Li Jianzong, *Acta Polymeric Sinica*, 2000 (2): 184~189 (SCI)

[25] Studies on Particle Size Distribution and Nucleation Mechanism of St/BA Miniemulsion Polymerization with Redox Initiators, **Tan Bien**, Zhang Hongtao, Hu Fang, Li Jianzong, *Chemical Journal of Chinese Universities*, 2000 (1): 156~159 (SCI)

[24] Effects of Polymerization Condition on Particle Size Distribution in St-BA-MAA Emulsion Polymerization Process , **Tan Bien** , Hu Fang , Zhang Hongtao , Li Jianzong , *Chemical Research in Chinese Universities* , 2000 (1) (SCI)

[23] Study on Morphology of St-BA-MAA Composite Poly mer Latex, **Tan Bien**, Zhang Hongtao, Hu Fang, Li Jianzong, *Polymer Material Science and Engineering*, 2000 (3)

[22]Study on Property of St-BA-MAA Composite Latex , Zhang Hongtao, Hu Fang), **Tan Bien**, Li Jianzong, *Polymer Material Science and Engineering*, 2000 (3)

[21]Preparation of stable St/BA miniemulsion, **Tan Bien**, Zhang Lianzheng, Zhang Hongtao, Hu Fang, Li Jianzong, *Aerospace Materials and Technology*, 2000 (3)

[20] Study on Properties of Miniemulsion Latex, **Tan Bien**, Hu Fang, Zhang Hongtao, Li Jianzong, *Chemistry and Adhesion*, 2000 (2): 51~54

[19] Study on Vulcanization Process of Silicone Addition Rubber, **Tan Bien**, Zhang Lianzheng, Hao Zhigang, Pan Huiming, *Special Purpose Rubber Products*, 2000(4): 9~11

[18] Study on Vulcanization Process of Silicone Addition Rubber, **Tan Bien**, Zhang Lianzheng, Hao Zhigang, Pan Huiming, 2000' *National Postdoctoral Symposium*, Science Press: 342~345

1999

[17]Advances in Addition Silicone Rubber, **Tan Bien**, Zhang Lianzheng, Zhao Feiming, Pan Huiming, *China Synthetic Rubber Industry*, 1999 (2): 73~75

[16]Platinum Catalyst Used in Silicone Industry, **Tan Bien**, Zhang Lianzheng, Zhao Feiming, Pan Huiming, *Aerospace Materials and Technology*) , 1999 (3): 12~17

[15] Synthesis of Methyl MQ and MTQ Silicone Resin and Its Propertie, Pan Huiming, **Tan Bien**, Huang Sujuan, Zhang Lianzheng, *Chinese Adhesives*, 1999 (6) : 1~4

[14] Miniemulsion Copolymerization of Styrene and Butyl Acrylate Initiated by Redox System at Lower Temperature: Reaction Kinetics and Evolution of Particle -Size Distribution, Huang He, Hu Fang, Zhang Hongtao, **Tan Bien**, Li Jianzong, Cheng shiyuan, *Journal of Applied Polymer Science*, 1999, 73 (3): 315~322 (SCI, EI)

1998

[13] Preparation and Polymerization of Super Concentrated Emulsion of Styrene-Methacrylic Acid, **Tan Bien**, Zhang Hongtao, Lin Liulan, Hu Fang , Li Jianzong, *Chinese Journal of Applied Chemistry*, 1998 (5): 53~55

[12]Kinetics and Nucleation of Emulsion Copolymerization of Butyl Acrylate-Styrene-Methacrylic Acid with Mixed Emulsifiers, Zhang Hongtao, Li Jianzong, **Tan Bien**, Hu Fang, *Polymer Material Science and Engineering*, 1998

(2) : 47~50 (EI)

[11] The Effect of Polymerization Condition on Particle Size Distribution of St-BA-MAA Latex, Zhang Hongtao, **Tan Bien**, Hu Fang, Yi Zhaohui, Li Jianzong, *Journal of Hubei University· Nature Science Edition* , 1998 (4): 369~372

[10] Miniemulsion Copolymerization of Styrene and Butyl Acrylate Initiated by Redox System at Lower Temperature Preparation and Polymerization, Huang He, Zhang Hongtao, Li Jianzong, Cheng shiyuan, Hu Fang, **Tan Bien**, *Journal of Applied Polymer Science*, 1998,68: 2029~2039 (SCI, EI)

[9]Advances in Addition Type Silicone Rubber in China, **Tan Bien**, Zhang Lianzheng, Zhao Feiming, Pan Huiming, 98' *National Sympposium on Silicone*, Hangzhou, 1998.10: 101~105

[8] Progress in Silicone Thermal Control Coatings, Zhao Feiming, **Tan Bien**, Zhang Lianzheng, Shi Suxing, Wang Hui, Zeng Yibing, 98' *National Sympposium on Silicone*, 1998.10: 16~20

1996

[7] Study on Morphology of St-BA-MAA Composite Polymer Latex, Zhang Hongtao, Li Jianzong, Chen Peizhi, **Tan Bien**, Hu Fang, *Journal of Hubei University· Nature Science Edition*, 1996 (3) : 213~217

[6] Miniemulsion Preparation and Their Stability, Li Jianzong, Zhang Hongtao, Hu Fang, **Tan Bien**, *Journal of Hubei University· Nature Science Edition*, 1996 (1): 53~56

[5] Effects of Polymerization Condition on Size Distribution of St-BA-MAA Latex, Zhang Hongtao, Li Jianzong, **Tan Bien**, Hu Fang, *1st Asian Symposium on Emulsion Polymerization and Functional Polymeric Microspheres* , Hangzhou, 1996.10 : 74~75

[4] Evolution of the Particle Size Distribution in Miniemulsion Polymerization, Li Jianzong, Hu Fang, Zhang Hongtao, **Tan Bien**, *1st Asian Symposium on Emulsion Polymerization and Functional Polymeric Microspheres*, Hangzhou, 1996.10 : 76~77

1995

[3] Preparation and Polymerization of Stable Concentrated Emulsion, Zhang Hongtao, Li Jianzong, **Tan Bien**, Hu Fang, *Polymer Emulsion Communication*, 1995 (2) : 40~44

[2] Preparation of Miniemulsion, Li Jianzong, Zhang Hongtao, Hu Fang, **Tan Bien**, 95' *National Sympposium on Polymer Science*, Guangzhou, 1995. 10: 70~71

[1] Latex Particle Size Distribution and Carboxyl group distribution of S-BA-MAA , Zhang Hongtao, Li Jianzong, **Tan Bien**, Hu Fang, 95' *National Sympposium on Polymer Science*, Guangzhou, 1995.10: 1127~1128