

# Curriculum Vitae

## Wei Zheng

Plastics Engineering Program  
Department of Engineering and Technology  
College of Science, Technology, Engineering, and Mathematics  
University of Wisconsin-Stout (UW-Stout)  
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### Education

- B.S.**, Chemical Engineering, East China University of Science and Technology, Shanghai, China (2003)  
**Ph.D.**, Chemical Engineering, Texas Tech University (TTU), Lubbock, TX (2008)  
**Postdoc**, Chemical Engineering, Texas Tech University (TTU), Lubbock, TX (2008 – 2010)  
**Postdoc**, Polymer Science and Engineering, University of Massachusetts-Amherst (2010 – 2011)

### Professional Appointments

- Program Director, Plastics Engineering, UW-Stout (Aug. 2017 – Present)  
Associate Professor, Engineering and Technology Department, UW-Stout (Aug. 2016 – Present)  
Assistant Professor, Engineering and Technology Department, UW-Stout (2012 – 2016)

### Institution and Professional Service

#### UW-Stout

- Chair of Plastics Engineering Faculty Search Committee (May 2017 – Dec 2017)
- Faculty Senate Committee (Mar. 2017 – Present)
- Concentration coordinator, Engineering Technology – Plastics (2016 – Present)
- Member of Plastics Engineering Advisory Board (2012 – Present)
- Member of M.S. Manufacturing Engineering Advisory Board (2012 – Present)
- Wisconsin Science Olympia Medal Presenter (Apr. 2016)
- Member of Provost Search Committee (2014 – 2015)
- Member of Planning and Reviewing Committee (2013 – 2015)
- Member of Chemical Engineering Program Planning Committee (2014 – 2015)
- Instructor of STEPS for Girls program (2013, 2015)
- Member of Plastics Engineering Board for ABET accreditation (2012 – 2013)
- Member of Packaging Faculty Search Committee (2012 – 2013)
- Academic Advisor for over 40 students annually in the Manufacturing Engineering and Engineering Technology Programs (2012 – Present)
- Research Advisor for 15 undergraduate students, 1 master student\*, and 2 visiting scholar\*\* (2012 – Present)

<b>Personnel</b>	<b>Major</b>	<b>Collaboration Period</b>	<b>Current Affiliation</b>
Nicolas Beach	Plastics Engineering	09/2016 – 05/2017	UW-Stout
Kevin Fuhrman	Plastics Engineering	05/2016 – 05/2017	UW-Stout

Dr. Jinghua Chen**	Packaging	08/2015 – 06/2016	University of Shanghai for Science and Technology
Michael Beeler	Plastics Engineering	05/2014 – 05/2016	Applied Medical
Max Zamzow	Plastics Engineering	09/2015 – 05/2016	Madison Group
Kristina Zmuda	Plastics Engineering	01/2015 – 05/2015	STIHL
Kyle Klein	Plastics Engineering	01/2015 – 05/2015	UW-Stout
Justin Claus	Plastics Engineering	12/2013 – 12/2014	Medtronic
Meghan Boyum	Plastics Engineering	10/2013 – 05/2014	Donatelle
Charlo Siprien	Applied Science	10/2013 – 12/2013	UW-Stout
Mathew Hofmeister*	Manufacturing Engineering	01/2013 – 05/2013	Ocean Spray
Jon Soffa	Engineering Technology	06/2013 – 12/2013	UW-Stout
Michael Davis	Plastics Engineering	10/2012 – 06/2014	UW-Stout
Dayton Ramirez	Plastics Engineering	09/2012 – 05/2013	Madison Group
Ryan Amundson	Plastics Engineering	09/2012 – 12/2012	ProMed Molded Products
Nuray Celebi**		05/2012 – 08/2012	Baskent University
Jordan Henricks	Packaging	06/2012 – 05/2013	LeanCor Supply Chain Group
Derek Bruesch	Plastics Engineering	02/2012 – 05/2012	Flambeau

### Professional Organizations

- Councilor of Applied Rheology Division of Society of Plastics Engineers (SPE) (2016 – Present)
- President of Chinese American Society of Plastics Engineers (2016 – Present)
- Chair and Councilor of Applied Rheology Division of SPE (2014 – 2016)
- Chair of Applied Rheology Special Interest Group of SPE (04/2014 – 07/2014)
- Technical Program Chair of Applied Rheology Special Interest Group of SPE (2012 – 2014)
- Vice-President of Chinese American Society of Plastics Engineers (2015 – 2016)
- Journal Reviewer for Journals such as Macromolecule; Journal of Polymer Science B: Polymer Physics; Royal Society of Chemistry Advances; Journal of Thermal Analysis and Calorimetry; Journal of Composite Materials (2008 – Present)
- Proposal Reviewer for National Science Foundation (2015 – Present)
- Session Chair of North American Thermal Analysis Annual Conference (2009)

### **Courses**

#### On-campus courses:

- PLE-405: Capstone I (Fall 14, Spring15, Spring 17)
- PLE-410: Capstone II (Fall 14, Spring15, Spring 17)
- ETECH-250: Introduction to Plastics (Fall 12, 13, 14, 15, 16, 17)
- ETECH-251: Fundamentals of Plastics Materials and Processing (Fall and Spring 12, 13, 14, 15, 16, Spring 16)
- PLE-360: Plastics Testing and Analysis (Spring 12, 13, 14, 15, 16, 17)
- MFGE-352: Manufacturing Process Engineering II (polymer part) (Fall 12, Spring 13)

#### Online courses:

- MFGE-707: Field Project Formulation (Fall 12)
- MFGE-735: Field Problem in Manufacturing Engineering (Spring 14)

#### Hybrid course: 70% online and 30% on campus

- MFGE-753: Polymer Engineering (Fall 13, Fall 17)

### Selected Course Projects and Presentations (total 50 student presentations)

- Processing and Characterization of Polylactic Acid (Spring 2012)
- Characterization and Processing of Polyethylene (Fall 2012)
- Synthesis and Characterization of Polystyrene (Spring 2013)
- PLA Filament: 3D Printing and Color Additive Effects (Spring 2013)
- Design and Manufacture of PMMA Magnifying Glasses (Fall 2014)
- Cross-WLF Viscosity Model for Processing Simulations (Spring 2015)
- Evaluation of Priamus FILLCONTROL Control M Software (Fall 2014, Spring 2015)
- Fabrication and Analysis of LED Face-Lit Acrylic Letters (Fall 2014, Spring 2015)
- Design and Construction of Extrusion Capillary Rheometer (Fall 2014, Spring 2015)
- Fabrication and Testing of Bio-Absorbable Polylactic Acid Bone Screw (Fall 2014, Spring 2015)
- Expanding MAAC Thermoformer Capabilities (Fall 2016, Spring 2017)
- Pen Production (Fall 2016, Spring 2017)

### **Funded Grants**

- "Preparation of a RUI Proposal: Reverse-Crosslinking of a Novel Thiol-Containing Resin", UW-Stout, 01/2017 – 12/2017, \$7,500.
- G. A. Taft Manufacturing Engineering Endowed Professorship, UW-Stout, 07/2016 – 07/2019, \$27,000.
- UW System-WiSys Applied Research Grant, Wei Zheng (co-PI), "Further Characterization of "Green" Thermosetting Resins: Material Data Sheets and Degradation Kinetics", UW-System, 07/2015 – 06/2016, \$47,925 (\$23,985 goes to UW-Stout).
- Travel Grant for Distinguished Research Scientists from Undergraduate Institutes, Wei Zheng (PI), "Professional Development: Attending Gordon Research Conference: Polymer Physics 2014", Predominantly Undergraduate Research Institute Fund, \$880.
- UW System-WiSys Applied Research Match Grant, Wei Zheng (PI), "Short Extension on Processing and Cure Kinetic Study of a Novel Biopolymer", 10/2013 – 06/2014, \$7,318.
- UW System-WiSys Applied Research Grant, Wei Zheng (PI), "Development of Biodegradable Polylactic Acid/Clay Nano-Composites: Mechanical Strength, Gas Barrier, and Thermal Stability", UW-System, 07/2013 – 06/2014, \$49,871.
- Lesson Study Project from Office of Professional and Instructional Development (OPID) of UW-System (Spring 2014), Wei Zheng (co-PI), \$1000.
- "Kinetic Study of a Novel Biopolymer", UW-System, 10/2012 – 06/2013, \$21,572.
- Undergraduate Student Grant: Derek Bruesch, "Effects of Blend Composition and Morphology on Processing", UW-Stout, 03/2012 – 04/2012, \$819.
- Undergraduate Research Assistant Grant, Discovery Center, UW-Stout, \$4000, 07/2012 – 06/2013.
- Faculty Research Start-up Fund, UW-Stout, \$5000.

### **Funded Technical Contracts:**

- Nolato Technical Assistance Project, Wei Zheng (PI), "Shrinkage Prediction", 08/2016 – Present, \$3,000.
- Presco Technical Assistance Project, Wei Zheng (PI), "Stress release of PVC films",

04/2017, \$800.

- Advantek Technical Assistance Project, Wei Zheng (PI), "Degradation and Moisture Contents of Engineering Plastics", 03/2017, \$800.
- Nolato Technical Assistance Project, Wei Zheng (PI), "Structure Analysis of ABS materials", 01/2017, \$800.
- FilmTech Technical Assistance Project, Wei Zheng (PI), "Thermal Analysis on a Plastic Film", 08/2014, \$1,328.
- Eastman Chemical Technical Assistance Project, Wei Zheng (co-PI), "Tritan Polymer Processing and Testing", 06/2014 – 08/2014, \$5,530.

### Unfunded Grants

- US Department of Energy, "National Network for Manufacturing Innovation in Packaging", a 5-year multi-institutional proposal between UW-Stout, UW-Madison, Michigan State University, and Clemson University to reduce natural resource usage in plastics packaging, 2017 – 2022. \$1.4 M (\$1,394,777), 2017 – 2012.
- Education Foundation Grant, "Travel Support for Film Production on Understanding Plastics", \$6,525, 2017 – 2018.
- UW System-WiSys Applied Research Grant, "Fabrication of 3D Tissue Engineering Scaffolds with Controlled Microstructure and Properties", \$49,500, 2013 – 2014.
- UW System- Regent Scholar Grant, "A Novel Thermosetting Resin: Reversible Crosslinking Examination and Injection Molding Simulation", \$49,992, 2016 – 2017

### Refereed Publications (718 citations as of 9/14/2017)

\*indicates the corresponding author

16. W. Zheng\*, M. Beeler, J. Claus, and X. Xu, "Polylactic Acid/Montmorillonite Blown Films: Crystallization, Mechanics, and Permeation", *Journal of Applied Polymer Science*, 134, 45260, 2017.
15. M. Davis, J. Droske, and W. Zheng\*, "Curing Kinetics of a "Green" Thiol-Containing Resin: Oligo(Ethylene-2-Mercaptosuccinate)", *Journal of Applied Polymer Science*. 133, 43205, 2016.
14. J. Henricks, M. Boyum, and W. Zheng\*, "Crystallization Kinetics and Structure Evolution of a Polylactic Acid during Melt and Cold Crystallization", *Journal of Thermal Analysis and Calorimetry*, 120, 1765, 2015.
13. C. Li, Y. Cai, Y. Zhu, M. Ma, W. Zheng, and J. Zhu\*, "Polyacrylamide-Metal Nanocomposites: One-Pot Synthesis, Antibacterial Properties, and Thermal Stability", *Journal of Nanoparticle Research*, 15: UNSP 1922 (2013).
11. W. Zheng, A. Mohammed, L. Hines Jr., D. Xiao, O. J. Martinez, R. A. Bartsch, S. L. Simon, O. Russina, A. Triolo, and E. L. Quitevis\*, "Effect of Cation Symmetry on the Morphology and Physicochemical Properties of Imidazolium Ionic Liquids", *Journal of Physical Chemistry B*, 115, 6572 (2011).
10. W. Zheng, G. B. McKenna, and S. L. Simon\*, "The Viscoelastic Behaviors of Athermal Solutions", *Polymer*, 51, 4899 (2010).
9. C. Dalle-Ferrier, S. Simon\*, W. Zheng, P. Badrinarayanan, T. Fennell, B. Frick, J. M. Zanotti, and C. Alba-Simionesco, "The Consequence of Excess Configurational Entropy

- on Fragility: the Case of a Polymer/Oligomer Blend", *Physical Review Letters*, 103, 185702 (2009).
8. W. Zheng and S. L. Simon\*, "The Glass Transition of Athermal Poly( $\alpha$ -Methyl Styrene/Oligomer Blends", *Journal of Polymer Science: Part B: Polymer Physics*, 46, 418 (2008).
  7. P. Badrinarayanan, W. Zheng, and S. L. Simon, "On the Validity of the Isoconversion Analysis for the Glass Transition", *Thermochimica Acta*, 468, 87 – 93 (2008).
  6. W. Zheng and S. L. Simon, "Confinement Effects on the Glass Transition of the Hydrogen Bonded Liquids", *Journal of Chemical Physics*, 127, 194501-1-194501-11 (2007); also published in visual publication.
  5. P. Badrinarayanan, W. Zheng, Q. X. Li, and S. L. Simon, "The Glass Transition Temperature versus the Fictive Temperature", *Journal of Non-Crystalline Solids*, 353, 2603 – 2612 (2007).
  4. R. Pitchimani, W. Zheng, S. L. Simon, L. Hope-Weeks, A. K. Burnham, and B. L. Weeks, "Thermodynamic Analysis of Pure and Impurity Doped Pentaerythritol Tetranitrate Crystals Grown at Room Temperature", *Journal of Thermal Analysis and Calorimetry*, 89, 475 – 478 (2007).
  3. W. Zheng and S. L. Simon, "Polystyrene Freeze Dried from Dilute Solution:  $T_g$  Depression and Residual Solvent Effects", *Polymer*, 47, 3520 – 3527 (2006).
  2. J. Zhu, W. Zheng, B. He, J. Zhang, and M. Anpo, "Characterization of Fe-TiO<sub>2</sub> Photocatalysts Synthesized by Hydrothermal Method and Their Photocatalytic Reactivity for Photodegradation of XRG Dye Diluted in Water", *Journal of Molecular Catalysis A: Chemical*, 216: 35 – 43 (2004).
  1. J. Zhu, Q. Sheng, W. Zheng, H. Bin, J. Zhang, and M. Anpo, "Characterization and Photocatalytic Reactivity of Fe-TiO<sub>2</sub> Photocatalysts Synthesized by Hydrothermal Method", *China Scientific and Technological paper online*, 200312-45 (2003).

### Conference Proceedings

\*indicates the corresponding author

16. K. Fuhrman and W. Zheng\*, "Creep and Recovery of polylactic acid and Its Clay Nanocomposite", Annual Technical Conference of Society of Plastics Engineers (SPE ANTEC) (2017).
15. J. Chen and W. Zheng, "The Effects of Nano-Clay on the Rheological Properties of Polylactic Acid", Accepted, Annual Technical Conference of Society of Plastics Engineers (SPE ANTEC) (2016).
14. J. Claus, J. Pischlar, B. Holm, A. Kramschuster, and W. Zheng\*, "A method for Determining the Seven Coefficients of the Cross-WLF equation", Annual Technical Conference of Society of Plastics Engineers (SPE ANTEC) (2015).
13. W. Zheng\*, T. Becker, and X. Ding, "The Effects of "Flipped Classroom" Concept on the Effectiveness of Teaching", ASEE North Midwest Section Conference (2014).
12. M. Davis, J. Droske, and W. Zheng\*, "Curing Study of a Green Thermosetting Resin", SPE ANTEC (2014).
11. J. Henricks, M. Davis, and W. Zheng\*, "Thermal and Rheological Characterization of Polylactic Acid", SPE ANTEC (2013), p2159.
10. W. Zheng, G. B. McKenna, and S. L. Simon\*, "The Viscoelastic Behaviors of Athermal Solutions", Proceedings, SPE ANTEC (2010).

9. W. Zheng, G. B. McKenna, and S. L. Simon\*, "The Viscoelastic Behaviors of Athermal Blends", Proceedings, North American Thermal Analysis Society (NATAS) 37th Annual Conference (2009).
8. C. Dalle-Ferrier, C. Alba-Simionesco, W. Zheng, P. Badrinarayanan, and S. L. Simon\*, "The Glass Transition and Fast Dynamics in Athermal Polystyrene/Oligomer Blends", Proceedings, NATAS, 36th Annual Conference (2008), p. 1.
7. W. Zheng and S. L. Simon\*, "T<sub>g</sub> in Polymer/Oligomer Athermal Blends", Proceedings, SPE ANTEC (2007), p. 1798.
6. P. Badrinarayanan, W. Zheng, and S. L. Simon\*, "Isoconversion Analysis of the Glass Transition", Proceedings, SPE ANTEC (2007), p. 1766.
5. W. Zheng and S. L. Simon, "Confinement Effects on T<sub>g</sub>: Thermodynamics versus Dynamics", Proceedings, NATAS, 34th Annual Conference (2006), p. 142.
4. R. Pitchimani, W. Zheng, S. Simon\*, L. Hope-Weeks, A. K. Burnham, B. L. Weeks, "Thermodynamic Analysis of Pure and Impurity Doped Pentaerythritol Tetranitrate Crystals Grown at Room Temperature", Proceedings, NATAS, 34th Annual Conference (2006), p. 92.
3. W. Zheng and S. L. Simon\*, "Polystyrene Freeze Dried from Dilute Solution: T<sub>g</sub> Depression and Residual Solvent Effects", Proceedings, NATAS, 33rd Annual Conference (2005).
2. W. Zheng and S. L. Simon\*, "Polystyrene Freeze Dried from Dilute Solution: T<sub>g</sub> Depression and Residual Solvent Effects", Proceedings, 22nd Annual All-University Conference on the Advancement of Women (2006).
1. J. Zhu, W. Zheng, B. He, and J. Zhang\*, "Preparation, Characterization and Photocatalytic Reactivity of Fe-TiO<sub>2</sub> Photocatalysts", Proceedings, China Solar Energy Society 2003 Annual Conference (2003), p. 996.

### **Conference Presentation and Seminar**

39. "Creep and Recovery of polylactic acid and Its Clay Nano-composite", Annual Technical Conference of Society of Plastics Engineers (SPE ANTEC), Anaheim, CA (May 2017).
38. "Plastics Research Development", Manufacturing Advantage Conference, Menomonie, WI (Sept. 2016).
38. "The Effects of Nano-Clay on the Rheological Properties of Polylactic Acid", Annual Technical Conference of Society of Plastics Engineers (SPE ANTEC), Indianapolis, IN (May 2016)
37. "Material Data Sheet of A "Green" Thermosetting Resin", Undergraduate Research Symposium, Stevens Point, WI (Apr. 2016).
36. "A "Green" Thermoset Versus Polylactic Acids", 3<sup>rd</sup> Bioplastic Materials TopCon and Tutorial, Minneapolis, MN (Apr. 2016).
35. "A Method for Determining the Seven Coefficients of the Cross-WLF Equation", Annual Technical Conference of Society of Plastics Engineers (SPE ANTEC), Orlando, FL (Mar. 2015).
34. "Seven Coefficients for Injection Molding Simulation Software", SPE ANTEC, Orlando, FL (Mar. 2015).
33. "Crystallization Kinetics and Structure Evolution of a Polylactic Acid", Gordon Research Conference: Polymer Physics, South Hadley, MA (July 2014).
32. "The Effects of "Flipped Classroom" Concept on the Effectiveness of Teaching", ASEE North Midwest Section Conference, Iowa City, IA (Oct. 2014).

31. "Curing Kinetics of a "Green" Thermosetting Resin", Department of Physics, University of Wisconsin-LaCrosse, La Crosse, WI (Nov. 2014) (Invited).
30. "Research Development on Biodegradable Plastics", Wisconsin Science and Technology Symposium, Eau Claire, WI (July 2014).
29. "Processing and Characterization of Polylactic Acid/Clay Nano-composite Films", Wisconsin Science and Technology Symposium, Eau Claire, WI (July 2014).
28. "Curing Kinetics of a "Green" Thermosetting Resin", Wisconsin Science and Technology Symposium, Eau Claire, WI (July 2014).
27. "Isothermal Crystallization and Structure Evolution during Melt and Cold Crystallization", Wisconsin Science and Technology Symposium, Eau Claire, WI (July 2014).
26. "Curing Study of a Green Thermosetting Resin", Annual Technical Conference of Society of Plastics Engineers (SPE ANTEC), Las Vegas, NV (Apr. 2014).
25. "Curing Studies of Novel Thermosetting Resins", Wisconsin Science and Technology Symposium, Superior, WI (July 2013) (Invited).
24. "Curing Kinetics of Poly(Alkylene Mercaptosuccinates)", Wisconsin Science and Technology Symposium, Superior, WI (July 2013).
23. "Thermal and Rheological Characterization of a Polylactic Acid", Annual Technical Conference of Society of Plastics Engineers (SPE ANTEC), Cincinnati, OH (Apr. 2013).
22. "The Compliance Issues with Commercial Rheometers", North American Thermal Analysis Society (NATAS) 38th Annual Conference, Philadelphia, PA (Aug. 2010).
21. "The Viscoelastic Behaviors of Athermal Solutions", Society of Plastics Engineers Annual Technical Meeting (SPE ANTEC), Orlando, FL (May 2010).
20. "New Symmetric Ionic Liquids and Their Properties", American Chemical Society 65th Southwest Regional Meeting, El Paso, TX (Nov. 2009).
19. "The Viscoelastic Behaviors of Athermal Solutions", Society of Rheology (SOR) 80th Annual Conference, Madison, WI (Oct. 2009).
18. "The Viscoelastic Behaviors of Athermal Blends", North American Thermal Analysis Society (NATAS) 37th Annual Conference, Lubbock, TX (Sept. 2009).
17. "The Viscoelastic Behavior of Polymer/Oligomer Blends", American Physical Society (APS) March Meeting, Pittsburgh, PA (Mar. 2009).
16. "The Glass Transition and Fast Dynamics in Athermal Polystyrene/Oligomer Blends", North American Thermal Analysis Society (NATAS) 36th Annual Conference, Atlanta, GA (Aug. 2008).
15. "The Glass Transition and Dynamics in Athermal Poly( $\alpha$ -methyl Styrene)/Oligomer Blends", American Physical Society (APS) March Meeting, New Orleans, LA (Mar. 2008).
12. " $T_g$  in Polymer/Oligomer Athermal Blends", International Polyolefins Conference, Houston, TX (Feb. 2008).
13. "Effect of Symmetry of the Cation on the Intermolecular Dynamics and Physical Properties of Imidazolium Ionic Liquids", 2nd International Congress on Ionic Liquids, Yokoyama, Japan (Aug. 2007)

12. "T<sub>g</sub> in Polymer/Oligomer Athermal Blends", Society of Plastics Engineers Annual Technical Meeting (SPE ANTEC), Cincinnati, OH (May 2007).
11. "Isoconversion Analysis of the Glass Transition", Society of Plastics Engineers Annual Technical Meeting (SPE ANTEC), Cincinnati, OH (May 2007).
10. "The Glass Transition of Polymer/Oligomer Athermal Blends", American Physical Society (APS) March Meeting, Denver, CO (Mar. 2007).
9. "Confinement Effects on the Glass Transition of the Hydrogen Bonded Liquids", American Physical Society (APS) March Meeting, Denver, CO (Mar. 2007).
8. "Isoconversion Analysis of the Glass Transition", American Physical Society March Meeting, Denver, CO (Mar. 2007).
7. "Confinement Effects on T<sub>g</sub>: Thermodynamics versus Dynamics", North American Thermal Analysis Society (NATAS) 34th Annual Conference, Bowling Green, KY (Aug. 2006).
6. "Thermodynamic Analysis of Pure and Impurity Doped Pentaerythritol Tetranitrate Crystals Grown at Room Temperature", North American Thermal Analysis Society (NATAS) 34th Annual Conference (Aug. 2006).
5. "Polystyrene Freeze Dried from Dilute Solution: T<sub>g</sub> Depression and Residual Solvent Effects", The Texas and Southwest Thermal Analysis and Rheology Forum (NaTex), Dallas, TX (Apr. 2006).
4. "Polystyrene Freeze Dried from Dilute Solution: T<sub>g</sub> Depression and Residual Solvent Effects", American Physical Society (APS) March Meeting, Baltimore, MD (Mar. 2006).
3. "Polystyrene Freeze Dried from Dilute Solution: T<sub>g</sub> Depression and Residual Solvent Effects", 22nd Annual All-university Conference on the Advancement of Women, Lubbock, TX (Mar. 2006).
2. "Polystyrene Freeze Dried from Dilute Solution: T<sub>g</sub> Depression and Residual Solvent Effects", North American Thermal Analysis Society (NATAS) 33rd Annual Conference, Universal City, CA (Sept. 2005).
1. "Preparation, Characterization and Photocatalytic Reactivity of Fe-TiO<sub>2</sub> Photocatalysts", China Solar Energy Society 2003 Annual Conference, Shanghai, China (Oct. 2003).