

## Dr. Yuanxin Zhou Publication (2008-now)

### **BOOK CHAPTER**

- 1: “An Experimental and Analytical Study of Unidirectional Carbon Fiber Reinforced Epoxy Modified By SiC Nanoparticle” (Chapter 4) in the book *Composite Materials Research*, Edited by Lucas P. Durand, Nova Science Publishers, 2008.
- 2: “Improvement in Thermal, Mechanical and Electric Properties of Multi-wall Carbon Nanotube Reinforced Epoxy and Carbon/epoxy Composite” (Chapter 12) in book *New Nanotechniques*, Edited by A. Malik and R.J. Rawat, Nova Science Publishers, 2009.
- 3: “Fabrication and characterization of polypropylene fiber reinforced by carbon nanofiber” (Chapter 12) in book *Nanofibers: Fabrication, Performance, and Applications*, Editors by W. N. Chang Nova Science Publishers, 2009.

### **REFEREED JOURNAL PUBLICATIONS**

#### **2012**

1. **Yuanxin Zhou**, Hosur, Mahesh; Jeelani, Shaik; Mallick, P.K., Fabrication and characterization of carbon fiber reinforced clay/epoxy composite, *Journal of Materials Science*, v 47, n 12, June 2012, p 5002-5012,

#### **2011**

2. **Yuanxin Zhou**, P.K. Mallick, Fatigue performance of injection-molded short e-glass fiber reinforced polyamide-6,6. II. Effects of melt temperature and hold pressure *Polymer Composites*, v 32, n 2, , February 2011, p 268-276

#### **2010**

3. **Yuanxin Zhou**, Yang Wang, Yuanming Xia, and Shaik Jeelani, Tensile behavior of carbon fiber bundles at different strain rates, *Materials Letters*, Volume 64, Issue 3, 15 February 2010, Pages 246-248.
4. **Yuanxin Zhou** Evertt White, Mahesh Hosur, Shaik Jeelani, Effect of particle size and weight fraction on the flexural strength and failure mode of TiO<sub>2</sub> particles reinforced epoxy, *Materials Letters*, Volume 64, Issue 7, 15 April 2010, Pages 806-809.

#### **2009**

5. **Yuanxin Zhou**, M.I. Jeelani, and Shaik Jeelani, M.I. Jeelani, and Shaik Jeelani, Development of photo micro-graph method to characterize dispersion of CNT in epoxy, *Materials Science and Engineering: A*, Volume 506, Issues 1-2, 25 April 2009, Pages 39-44.

#### **2008**

6. **Yuanxin Zhou**, Peixuan Wu, Zhongyang Cheng, Joranda Ingram and Shaik Jeelani, Improvement in electrical, thermal and mechanical properties of epoxy by filling carbon, *Express Polymer Letter*, 2008, 2(1), 40-48.

7. **Yuanxin Zhou**, Farhana Pervin, Shaik Jeelani and P.K. Mallick, Improvement in mechanical properties of carbon fabric–epoxy composite using carbon nanofibers *Journal of Materials Processing Technology*, Volume 198, Issues 1-3, 3 March 2008, Pages 445-453
8. **Yuanxin Zhou**, Farhana Pervin, Lance Lewis and Shaik Jeelani, Fabrication and characterization of carbon/epoxy composites mixed with multi-walled carbon nanotubes *Materials Science and Engineering: A*, Volume 475, Issues 1-2, 25 February 2008, Pages 157-165
9. Jonse I.K., **Yuanxin Zhou**, Jeelani S., Mabry J.M., Effect of polyhedral-oligomeric-sil-sesquioxanes on thermal and mechanical behavior of SC-15 epoxy, *Express Polymer Letters*, (2)2008: 494-501.
10. B. Bey, **Yuanxin Zhou**, Shaik Jeelani, Ashok Kumar and L.D. Stephenson, Nonlinear constitutive equation for temperature degraded unidirectional carbon fiber reinforced epoxy, *Materials Letters*, Volume 62, Issues 21-22, 15 August 2008, Pages 3659-3662
11. Ingram J., **Yuanxin Zhou**, Jeelani S., Lacy T., and Horstmeyer M.F., Effect of strain rate on tensile behavior of polypropylene and carbon nanofiber filled polypropylene, *Materials Science and Engineering: A*, 489(2008) Pages 99-106
12. N.S. Korivi, **Yuanxin Zhou** and L. Jiang, "Grayscale Lithography by a Polymer Photomask Doped with Laser Dye," *Journal of Vacuum Science and Technology B* 26(1), Jan/Feb 2008, pp. 62-66

## **PUBLICATIONS IN INTERNATIONAL CONFERENCE PROCEEDINGS**

1. **Yuanxin Zhou**, Everett White, Mahesh Hosur, Shaik Jeelani, Influence of TiO<sub>2</sub> nanoparticles on flexural properties of epoxy. SAMPE 2010, Seattle, WA, USA, May 20, 2010
2. **Yuanxin Zhou**, S. Akanda, Mahesh Hosur, Shaik Jeelani, Atom Scale Simulation of Contact Resistance Between Two Single-walled CNTs, SAMPE 2009, Baltimore, MD, USA, May 20, 2009
3. **Yuanxin Zhou**, M S. Shaik, Shaik Jeelani, Thomas E. Lacy Fabrication and Characterization of Vapor Grown Carbon Nanofiber Reinforced Polyester, American Society for Composites 2009 Annual Technical Conference, Newark, DE, USA, September 15, 2009.
4. **Yuanxin Zhou**, M.S. Shaik, Shaik Jeelani, Thomas Lacy, Mark F. Horstemeyer Experimental Study on Thermal and Mechanical Properties of Clay Modified Carbon Fiber Reinforced epoxy, American Society for Composites 2008 Annual Technical Conference, Memphis, TN, USA, September 11, 2008.
5. S. Akanda, **Yuanxin Zhou**, Shaik Jeelani, Effect of Structure on Electrical conductance of Single Wall Carbon Nanotubes, American Society for Composites 2008 Annual Technical Conference, Memphis, TN, USA, September 11, 2008.
6. B. Dey, **Yuanxin Zhou**, Mahesh Hosur, Shaik Jeelani, Ashok Kumar, L. D. Stephenson, Evaluation of Thermal Effects on Mechanical Properties of Epoxy, Carbon Fiber and Carbon/epoxy Composite, American Society for Composites 2008 Annual Technical Conference, Memphis, TN, USA, September 11, 2008.

7. M. S. Shaik, **Yuanxin Zhou**, Thomas Lacy, M. F. Horstemeyer, Experimental Study on Strain Rate Sensitivity of Aligned Carbon Nanofiber Reinforced Polypropylene, ICHMM-2008, Huangshan, China, June 3-June 8, 2008.