

XINZHANG ZHOU

Professional Preparation:

University	Location	Major	Degree, year	
Univ. of Sci and Tech.	Beijing, China	metal physics	B.Sc., 1991	
Chinese Academy of Sciences	Shenyang, China	materials physics	M.S., 1994	
Rutgers University	Piscataway, NJ	ceramic engineering	PhD., 2002	
Rutgers University	Piscataway, NJ	ceramic engineering	post-doc., 2002	2003
Univ. of California, Davis	Davis, CA	materials science	post-doc., 2003	2004

Appointments:

2019 – Present	R&D Staff Member, Carbon & Composites Group, Chemical Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN
2008 – 2019	Process Development Engineer, R&T Fibers, Hexcel Corporation, Salt Lake City, Utah
2004–2008	Development Engineer, PerkinElmer Optoelectronics, Fremont, CA
1994–1997	Quality Assurance Engineer, Yangtze Optical Fibre and Cable Company, Wuhan, China.

Selected Publications (total of 85): Closely related to proposed work

1. Vaughan B*. Dasarathy, H., **Zhou X.**, McInns J., Ferrin P., Impact of processing on structure and properties of carbon fiber and effects on composite performance, *the Composites and Advanced Materials EXPO*, 3, 1-18, (2016).
2. León C*. and **Zhou X.**, Carbon Fiber Mechanical Properties: Reconciling Models and Experiments, *JEC the 2nd Innovative International Composites Summit*, Paris, France, March 29-31, 2011.

Other significant publications:

1. **Zhou X.*** and Mukherjee AK, Superplasticity by internal frictional heat under biased cyclic loading”, *Journal of Materials Science*, 42, 5217-5222 (2007).
2. **Zhou X.***, Hulbert DM, Kuntz JD, Sadangi RK, Shukla V, Kear BH, and Mukherjee AK, Superplasticity of zirconia-alumina-spinel nanoceramic composite by spark plasma sintering of plasma sprayed powders, *Materials Science & Engineering A*, 394, 353-359 (2005).
3. **Zhou X.***, Hulbert DM, Kuntz JD, Garay JE, and Mukherjee AK, Superplasticity of the Nanostructured Binary Systems of Zirconia- Alumina-Spinel Ceramics by Spark Plasma Sintering Process, *Ceramic Transactions*, 165, 155-164 (2004);
4. Liu F., Cosandey F., **Zhou X.**, Kear BH, Nanophase decomposition in plasma sprayed ZrO₂ (Y₂O₃)/Al₂O₃ coatings, *Ceramic Transactions*, 148, 91-100 (2004);
5. **Zhou X.***, Sadangi RK, Kear BH, and Cannon WR, Metastable Phases Formation in Rapidly Solidified ZrO₂ - Al₂O₃ powders, *Materials Science Forum*, 437-438, 407-410 (2003);
6. **Zhou X.***, Shukla V, Cannon WR, and Kear BH, Metastable phase formation in plasma sprayed ZrO₂ (Y₂O₃) - Al₂O₃ powders, *Journal of American Ceramic Society*, 86(8), 1415-1420 (2003);
7. **Zhou X.***, Jiang J., Lung C., Effects of Distribution of Induced Defects on Positron Diffusion, *Journal of Materials Science & Technology* 16(1), 73-75 (2000);

Synergistic Activities:

2003-2004	Contribution Editor, <i>Phase Equilibria Diagrams</i> , U.S. Department of Commerce, National Institute of Standards & Technology
2002-2004	Journal reviewer, <i>Materials Science and Engineering A</i>
2002-2006	Journal reviewer, <i>Journal of Materials Science</i>

Graduate and Post-doctoral Advisors:

PhD advisor:	Prof. B. Kear and R. Cannon (Rutgers University, Piscataway, NJ)
Post-Doctoral advisors:	Prof. B. Kear (Rutgers University, Piscataway, NJ) and Prof. Amiya Mukherjee (University of California, Davis, Davis, CA)