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**Dr. Zhou** is a research scientist in Energy Science and Technology Directorate at Pacific Northwest National Laboratory.

Dr. Zhou received his B.S. (1994) and M.S. (1997) in Chemical Engineering from East China University of Science and Technology, and Ph.D. (2001) in Ceramic Engineering from University of Missouri-Rolla. Prior to joining Pacific Northwest National Laboratory in 2005, he was a post doctoral fellow (2001-2003) and an Assistant Research Professor (2004-2005) at University of Missouri-Rolla. His current research interests include materials for various energy conversion systems including fuel cells and thermoelectrics, and energy storage systems; electronic ceramics, and cytotoxicity of nano-materials. Since 2001, he has published 5 invited book chapters, 3 invited journal articles, 35 peer-reviewed articles, 16 proceedings papers, and 2 issued US patents. He serves as an Executive Committee Member of the High Temperature Materials Division of the Electrochemical Society (ECS) and as the session chair for 208<sup>th</sup> and 209<sup>th</sup> ECS meetings.

**Recent Publications:**

1. L. Q. Wang, G. J. Exarhos, C. F. Windisch, C. Yao, L. R. Pederson, and X.-D. Zhou, "Probing Hydrogen in ZnO Nanorods by MAS NMR," *Appl. Phys. Lett.* (In press)
2. G. J. Exarhos and X.-D. Zhou, "Discovery-based design of transparent conducting oxide films," *Thin Solid Films* (Review article, In press)
3. W. Lin, Y.-W. Huang, X.-D. Zhou and Y. Ma, "In vitro toxicity of silica nanoparticles in human lung cancer cells," *Toxicol. Appl. Pharm.*, **217**, 252-259 (2006).
4. L. R. Pederson, P. Singh and X.-D. Zhou, "Application of Vacuum Deposition Methods to Solid Oxide Fuel Cells," *Vacuum*, **80**, 1066-1083 (2006).
5. J. Yang, X.-D. Zhou, Q. Cai, W. J. James, and W. B. Yelon, "Crystal and Electronic Structures of LiNH<sub>2</sub>," *Appl. Phys. Lett.*, **88**, 041914 (2006).
6. J. Cheng, A. Navrotsky, X.-D. Zhou, and H. U. Anderson, "Enthalpies of Formation of LaMO<sub>3</sub> Perovskites (M = Cr, Fe, Co and Ni)," *J. Mater. Res.*, **20**, 191-200 (2005).