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Education:

Pfeiffer College, Misenheimer, North Carolina	Chemistry and Math	B.S., 1984
University of Tennessee-Knoxville	Chemistry	M.S., 1988

Professional Experience:

2005–p Chemical Lab Technologist, Chemical Functionality Group, Center for Nanophase Materials Sciences, Oak Ridge National Laboratory (ORNL)

2003–2005 Subcontracted Research Assistant, Surface Chemistry and Catalysis Group, Chemical Sciences Division, ORNL

Selected Peer-Reviewed Publications:

- M. T. DeAngelis, A. J. Rondinone, M. D. Pawel, T. C. Labotka, L. M. Anovitz, "Sol-Gel Synthesis of Nanocrystalline Fayalite (Fe_2SiO_4)," *American Mineralogist* **97**, 653 (2012).
- S. S. Brown, A. J. Rondinone, M. D. Pawel, S. Dai, "Ternary Cadmium Sulphide Selenide Quantum Dots as New Scintillation Materials," *Materials Technology* **23**, 94 (2008).
- D. R. Cole, E. Mamontov, S. Dai, M. D. Pawel, C. D. Liang, T. Jenkins, G. Gasparovic, E. J. Kintzel, L. Vlcek, P. T. Cummings, "Dynamics of Water in Aqueous Solutions Confined in Silica Matrices Determined from Neutron Scattering," *Geochimica et Cosmochimica Acta* **72**, A172 (2008).
- E. Mamontov, D. R. Cole, S. Dai, M. D. Pawel, C. D. Liang, T. Jenkins, G. Gasparovic, E. Kintzel, "Dynamics of Water in LiCl and CaCl_2 Aqueous Solutions Confined in Silica Matrices: A Backscattering Neutron Spectroscopy Study," *Chemical Physics* **352**, 117 (2008).
- A. J. Rondinone, M. Pawel, D. Travaglini, S. Mahurin, S. Dai, "Metastable Tetragonal Phase CdWO_4 Nanoparticles Synthesized with a Solvothermal Method," *Journal of Colloid and Interface Science* **306**, 281 (2007).
- H-J. Im, C. Willis, A. C. Stephan, M. D. Pawel, S. Saengkerdsub, S. Dai, "Transparent Matrix Structures for Detection of Neutron Particles Based on Di-Ureasil Xerogels," *Applied Physics Letters*, **84**, 2448 (2004).
- H.-J. Im, S. Saengkerdsub, A. C. Stephan, M. D. Pawel, D. E. Holcomb, S. Dai, "Transparent Solid-State Lithiated Neutron Scintillators Based on Self-Assembly of Polystyrene-Block-poly(ethylene oxide) Copolymer Architectures," *Advanced Materials* **16**, 1757 (2004).
- H-J. Im, C. Willis, S. Saengkerdsub, R. Makote, M. D. Pawel, S. Dai, "Scintillators for Alpha and Neutron Radiations Synthesized by Room Temperature Sol-Gel Processing," *Journal of Sol-Gel Science and Technology* **32**, 117 (2004).