



Tiffany Kaspar, Pacific Northwest National Laboratory

Scientist, Materials Sciences

PO Box 999, K8-87

Richland, WA 99352

(W) 509-371-6503

http://www.pnl.gov/science/staff/staff_info.asp?staff_num=5974

Dr. Tiffany Kaspar received her Ph.D. in Chemical Engineering from the University of Washington in 2004. The last four years of her graduate work were executed on-site at EMSL, employing the thin film deposition and materials characterization capabilities as a user. She remained at PNNL as a post-doctoral researcher in the same group; in 2007, she was hired as a staff scientist. Dr. Kaspar's research interests include the epitaxial growth (via oxygen-plasma-assisted molecular beam epitaxy or pulsed laser deposition) of metallic and metal oxide thin films. Her work has investigated the electronic, photoactive, magnetic, and piezoelectric properties of doped binary and complex oxides, the radiation tolerance of epitaxial metal and oxide films on oxide substrates, and the electronic characterization of ZnO-based materials relevant for solar photovoltaics. She has worked with on-site external EMSL users on projects such as pulsed laser deposition of complex oxides for solid oxide fuel cell applications. Throughout this research, she has relied heavily on the characterization techniques available in EMSL, utilizing them as an on-site user. Dr. Kaspar has authored or co-authored more than 60 publications (h-index = 25), including one invited paper and one book chapter. She is active in the Pacific Northwest Chapter of AVS: The Science and Technology of Materials, Interfaces, and Processes.