

Other Instruments

Other instruments, such as XRD, AES, XPS, and AFM, have also been used in our research. Peer-reviewed journal publications associated with the application of these instruments are listed below.

1. L. Tan, K. Sridharan, T.R. Allen, R. Nanstad, D. McClintock. Microstructure tailoring for property improvements by grain boundary engineering. *Journal of Nuclear Materials*, doi:10.1016/j.jnucmat.2007.08.015.
2. L. Tan, T.R. Allen, J.D. Hunn, J.H. Miller. Electron backscatter diffraction for microstructure and property characterization of the SiC-coating in TRISO fuel particles. *Journal of Nuclear Materials*, doi:10.1016/j.jnucmat.2007.04.048.
3. L. Tan, K. Sridharan, T.R. Allen. Effect of thermomechanical processing on grain boundary character distribution of a Ni-based superalloy. *Journal of Nuclear Materials* 371(1-3) (2007) 171-175.
4. L. Tan, M.T. Machut, K. Sridharan, T.R. Allen. Corrosion behavior of a ferritic/martensitic steel HCM12A exposed to harsh environments. *Journal of Nuclear Materials* 371(1-3) (2007) 161-170.
5. T.R. Allen, L. Tan, G.S. Was, E.A. Kenik. Thermal and radiation-induced segregation in model Ni-base alloys. *Journal of Nuclear Materials* 361 (2007) 174-183.
6. L. Tan, Y. Yang, T.R. Allen. Porosity prediction in supercritical water exposed ferritic/martensitic steel HCM12A. *Corrosion Science* 48 (2006) 4234-4242.
7. L. Tan, Y. Yang, T.R. Allen. Oxidation behavior of alloy HCM12A exposed in supercritical water. *Corrosion Science* 48 (2006) 3123-3138.
8. T.R. Allen, L. Tan, J. Gan, G. Gupta, G.S. Was, E.A. Kenik, S. Shutthanandan, S. Thevuthasan. Microstructural development in advanced ferritic-martensitic steel HCM12A, *Journal of Nuclear Materials* 351 (2006) 174-186.
9. L. Tan, K. Sridharan, T.R. Allen. The effect of grain boundary engineering on oxidation behavior of INCOLOY alloy 800H in supercritical water. *Journal of Nuclear Materials* 348 (2006) 263-271.
10. T.R. Allen, L. Tan, J.D. Tucker, J. Gan, G. Gupta, G.S. Was, S. Shutthanandan, S. Thevuthasan. Radiation resistance of advanced ferritic-martensitic steel HCM12A. *Journal of ASTM International* 2(8) (2005) 1-13.
11. L. Tan, T.R. Allen. An EBSD study of grain boundary engineered INCOLOY alloy 800H. *Metallurgical and Materials Transactions A* 36(7) (2005) 1921-1925.