

Listed Papers and Reports

Key: NE – Primarily DOE-NE funded research, UP – Primarily Nuclear Energy University Program funded research, EM – Primarily DOE-EM funded research.

2013

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- Gin, S., J.V. Ryan, D.K. Schreiber, J. Neeway, and M. Cabie. 2013. "Contribution of Atom-Probe Tomography to a Better Understanding of Glass Alteration Mechanisms: Application to a Nuclear Glass Specimen Altered 25 Years in a Granitic Environment," *Chemical Geology*, 349:99-109. 10.1016/j.chemgeo.2013.04.001. [NE]
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- Murphy, K.A., N.M. Washton, J.V. Ryan, C.G. Pantano, and K.T. Mueller. 2013. "Solid-State NMR Examination of Alteration Layers on Nuclear Waste Glasses," *Journal of Non-Crystalline Solids*, 369:44-54. 10.1016/j.jnoncrysol.2013.03.021. [NE,UP]
- Strachan, D.M., J.J. Neeway, and J.V. Ryan. 2013. *Modeling of the Solutions to Be Used for the SRNL 'Super Flow' Experiments*, PNNL-22269, Pacific Northwest National Laboratory, Richland, WA. [NE]
- Vienna, J.D., J.V. Ryan, S. Gin, and Y. Inagaki. 2013. "Current Understanding and Remaining Challenges in Modeling Long-Term Degradation of Borosilicate Nuclear Waste Glasses," *International Journal of Applied Glass Science*, 4(4):283-294. 10.1111/ijag.12050. [EM]
- Zapol, P., H.Y. He, K.D. Kwon, and L.J. Criscenti. 2013. "First-Principles Study of Hydrolysis Reaction Barriers in a Sodium Borosilicate Glass," *International Journal of Applied Glass Science*, 4(4):395-407. DOI 10.1111/Ijag.12052. [NE]

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