

Wednesday, September 11 2019, 4:10-5:00PM, WEB 1230

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Effect of metallic Li on materials

The effect of metallic Li (Li^0) on materials has been poorly studied. At UNR, we have been conducting both accelerated and long-term studies to understand such behavior. Specifically, we correlate the observed surface chemistry of alloys to the corrosion behavior exhibited in molten salts. Some of these studies have necessitated in situ studies of both materials and the molten salt. This presentation will provide the need for such studies, a summary of results, and an overview of the effect Li^0 has on materials.



Biography: Dr. Chidambaram has degrees in electrochemical eng., biomedical eng., and materials science and eng. He obtained his PhD in materials science and eng. from Stony Brook university in 2003. He then worked as a Goldhaber distinguished fellow and a staff scientist at Brookhaven National Laboratory. In 2009 he joined the Faculty in the Department of Chemical and Materials Eng. at the University of Nevada, Reno. He was promoted to Associate professor in 2013 and to Full professor in 2017. He has over 80 publications.