

Selected Publications & Presentations:

1. Spectroscopic studies of the ionic liquid during the electrodeposition of Al–Ti alloy in 1-ethyl-3-methylimidazolium chloride melt, *Materials Chemistry and Physics*, 132, 1, 2012, 34-38, co-authored with Abhishek Lahiri.
2. Electrochemical synthesis of hexagonal closed pack nickel: A hydrogen storage material, *Journal of Power sources*, 195 (2010), 1688-1690, co-authored with Abhishek Lahiri and Ramana G. Reddy.
3. Synthesis of face centered cubic and hexagonal closed packed nickel using ionic liquids, *Journal of Applied electrochemistry*, 40, 11, 2010, 1991-1995, co-authored with Abhishek Lahiri.
4. Development of Anode Materials for Solid Oxide Fuel Cells-A Review, co-authored with R.G.Reddy, *International Journal for Manufacturing Science and Production*, vol. 10(1-2), pp. 27-41, 2009.
5. Computational Modeling of a Planar 3-D SOFC and the Effect of Materials Properties on the Anode Performance, co-authored with R.G.Reddy, *International Journal for Manufacturing Science and Production*, vol. 10(1-2), 1-10, 2009.
6. 3-D Modeling of Planar SOFCs and the Scope of Novel Materials for a Better Design of Anodes, co-authored with R.G.Reddy, *Fuel Cell Technology and Business conference & exposition*, Long Beach, CA, May 2008.
7. Recent Progress in Understanding Interfacial Reactions in SOFCs, co-authored with H. Abernathy, Y. Choi, S. Zha, Z. Cheng, J. Wang, E. Koep, R. Williams, J. Dong and M. Liu, *30th International Conference on Advanced Ceramics and Composites (American Ceramic Society)*, Cocoa Beach, FL, January 2006.
9. Modeling of Micro-Impedance Measurements of Mixed-Conducting Electrodes for SOFCs, co-authored with M. Liu, *Symposium for the Georgia Tech Strategic Energy Initiative*, Atlanta, GA, 2006.
10. Microstructure and Electrochemical Properties of Cathode Materials for SOFCs Prepared via Pulsed Laser Deposition, co-authored with Erik Koep, Chunming Jin, Michael Haluska, Roger Narayan, Ken Sandhage, Robert Snyder and Meilin Liu, *Journal of Applied Physics*, 2006.
11. Modeling of Patterned Mixed-Conducting Electrodes and the importance of sheet resistance at small feature sizes, co-authored with David Mebane, Erik Koep and Meilin Liu, *Solid State Ionics*, 2006.
12. The Characteristic Thickness for a Dense La_{0.8}Sr_{0.2}MnO₃ Electrode, co-authored with Erik Koep, Charles Compson, and Meilin Liu, *Electrochemical and Solid-State Letters*, 2005.
13. LSM Patterned Electrodes for Solid Oxide Fuel Cells, co-authored with Erik Koep, Charles Compson and Meilin Liu, October 2004, *206th Meeting of The Electrochemical Society, Inc.*, Honolulu, HI.
14. Three dimensional modeling of the medium size fuel cell stacks: thermal effects on the stack performance, co-authored with Vladimir Kudriavtsev (CFD Canada), Rob Delcore (Hydrogenics), *4th International ASME/JSME/KSME Symposium on computational technology (CFD) for fluid/ thermal/chemical/ stress systems with industrial applications*, August 2002, Vancouver, CANADA.
15. Tools and techniques for fuel cell performance simulation, co-authored with Alton Reich (CFDRC), Sandip Mazumder (CFDRC), Vernon Cole (CFDRC), *4th International ASME/JSME/KSME Symposium on computational technology (CFD) for fluid/thermal/chemical/stress systems with industrial applications*, August 2002, Vancouver, CANADA.

16. Modeling PEM Fuel Cell Stack Performance using computational fluid dynamics, co-authored with V. Kudriavtsev (CFD Canada), *Canadian Section and Pacific Northwest Section of Electrochemical Society Conference* (May 31, 2002 Vancouver, CANADA).