Electrodeposition of Metallic Thin Films

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Physics

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Education and Experience

Assistant Professor of Physics, Washington & Jefferson College, 2005 – 2007

Postdoctoral Research, Pennsylvania State University, 2002 – 2005

Ph.D., Cornell University., 2002

M.S. Cornell University, 1999

M.Phil., University of Cambridge, 1996

B.A., Oberlin College, 1995

Research Interests

Electrochemistry, Nanoscale Science, Scanning Probe Microscopy

Selected Publications

J. R. Hampton, A. A. Dameron, and P. S. Weiss, "Double ink dip-pen nanolithography studies elucidate molecular transport," J. Am. Chem. Soc. **128**, 1648 (2006).

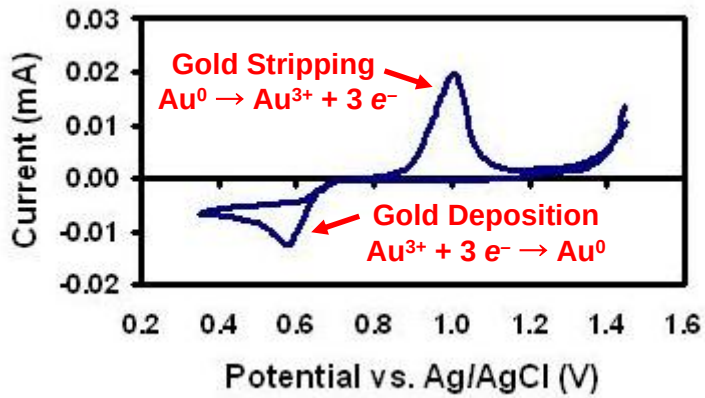
A. A. Dameron, J. R. Hampton, R. K. Smith, T. J. Mullen, S. D. Gillmor, and P. S. Weiss, "Microdisplacement printing," Nano Lett. **5**, 1834 (2005).

J. R. Hampton, J.-L. Martínez-Albertos, and H. D. Abruña, "SMOKE studies of electrodeposited mono- and multilayers," Langmuir **19**, 4309 (2003).

My research is focused on understanding and controlling the fabrication of metallic thin films and nanostructures. I utilize and extend scanning probe microscopes and electrochemistry techniques to explore the various facets of this interdisciplinary research.

BAS Epsilon Electrochemical Workstation and Cell Stand

Cyclic Voltammogram of 2 mM $AuCl_3$ in 0.1 M NaCl on a Pt Electrode at 20 mV/s



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