

SUNEEL KODAMBAKA

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EDUCATION

Indian Institute of Technology, Madras	Metallurgical Engineering	B. Tech.	1995
Southern Illinois University, Carbondale	Mechanical Engineering	M.S.	1997
University of Illinois, Urbana	Materials Science	Ph.D.	2002
University of Illinois, Urbana	<i>In situ</i> LEEM (surface science)	Postdoc	2002-04
IBM T.J. Watson Research Center	<i>In situ</i> TEM (nanowires)	Postdoc	2004-06

Dr. Kodambaka has 10+ years of experience in *in situ* time-resolved studies of crystal growth and surface/bulk mass transport kinetics with emphasis on atomic-scale investigation of processes controlling material synthesis and stability. Kodambaka has designed, conducted, and supervised experiments that involved the use of several *in situ* high-temperature (>1200 K) STM and LEEM to study dynamic phenomena on epitaxial TiN(001) and TiN(111) surfaces; *in situ* TEM to observe the growth of Si and Ge wires. At UCLA, he is in the process of establishing *in situ* microscopy facilities for understanding the synthesis of low-dimensional structures (clusters, nanowires, and graphene). Kodambaka has published over 35 peer-reviewed articles, presented over 60 invited talks/seminars at national/international conferences and Universities, organized/co-organized 8 topical sessions/symposia at national/international conferences including the American Vacuum Society (AVS) and the Materials Research Society (MRS). He is a referee for papers submitted to 20+ journals including Applied Physics Letters, Nano Letters, Nature Materials, Physical Review Letters, and Science. He has reviewed proposals submitted to the NSF, ACS-PRF, and the Singapore and the Austrian governments.

Graduate and postdoctoral advisors

M.S.: R. Koc (SIUC); **PhD:** J.E. Greene (UIUC) and I. Petrov (UIUC)

Postdoc: J.E. Greene (UIUC) and I. Petrov (UIUC), Frances Ross (IBM).