



RAMAMOORTHY RAMESH

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EDUCATION

University of California, Berkeley - Materials Science, M.S, Ph.D. - 1983-1987

Indian Institute of Science, Bangalore, India - Metallurgy, B.E. - 1980-1983

Madras University, Madras, India - Chemistry, B.S. - 1977-1980

EMPLOYMENT

Professor, University of California, Berkeley (2004-present)

Professor, Distinguished University Professor, University of Maryland, College Park (1999-2003)

Associate Professor, University of Maryland, College Park (1995-1999)

Member of Technical Staff, Bell Communications Research, Red Bank (1989-1995)

Postdoctoral Associate, NCEM, Lawrence Berkeley Laboratory (1987-1988)

Lawrence Berkeley Laboratory, University of California, Berkeley (1983-1987)

ACADEMIC HONORS AND PROFESSIONAL AWARDS

Brahm Prakash Chair, Indian Institute of Science, Bangalore, INDIA, 2005; Fellow, American Association for the Advancement of Science, 2005; American Physical Society Adler Lectureship, 2005; Chau Memorial Lecture, Hong Kong Polytechnic University, 2004; Distinguished University Professor, University of Maryland, College Park, 2003; Fellow, American Physical Society, 2001; A. James Clark School of Engineering Faculty Outstanding Research Award, 2001; Alexander von Humboldt Senior Scientist Prize, 2001; ISIF Award for Outstanding Achievement in Integrated Ferroelectrics, 2000 Distinguished Research Faculty Fellow, University of Maryland, 1999-2000; Belcore Corporate Award, 1994, 1993, 1992; Earl R. Parker Fellowship, ASM, 1987; Graduate Student Award, MRS, 1987; Ross M. Tucker Award, Intel Corporation and N. California Chapter of AIME, 1986-1987; James Monroe McDonald Scholarship, 1986-1987; Regent's Fellowship, University of California, Berkeley, 1984-1985; Vidya Bharati Award in Metallurgy, Indian Institute of Metals, 1983; K.K.Mullick Gold Medal in Metallurgy, 1983; National Merit Scholarship, 1980-1983, and 1977-1980; College Gold Medal, 1980.

PROFESSIONAL ACTIVITIES

Conference Organization: Conference Co-Chair, MRS Spring 2005 Meeting; Chair, International Symposium on Integrated Ferroelectrics-1999, 2003; MRS Symposia: Polarization Dynamics in Ferroic Materials, 2001; Defect Structure in Oxide Thin Films, 1992; Epitaxial Oxide Thin Films and Heterostructures, 1994; Ferroelectric Thin

Films IV, 1994; Ferroelectric Thin Films V, 1996; APS March Meeting Focus Topic Symposium on Dynamics in Ferroelectrics and Dielectrics, 2001-02; International Oxide Electronics Workshop, 1997-99; International Conference on Electronic Materials, 1990

Editorial Boards: International Advisory Board for ISIF; Member of Editorial Board: *Journal of Applied Physics* and *Applied Physics Letters* (1998-2001); *Journal of Materials Research*; *Integrated Ferroelectrics*; *Journal of Electroceramics*; *Japanese Journal of Applied Physics*.

Consultant: Bellcore, Motorola, Candescent, Inc., Tachyon Semiconductor, Intematix Corporation, Sponsera, Inc., Fujitsu, Solid State Photonix, Spectalis, Inc.

Recent Publications :

R. Ramesh, S. Aggarwal and O. Auciello, "Science and Technology of ferroelectric films and heterostructures for nonvolatile ferroelectric memories", Materials Science and Engineering Report, R32, (2001).

S. Aggarwal, A.P. Monga, S.R. Perusse, R. Ramesh, V. Ballarotto, E.D. Williams, B.R. Chalamala, Y. Wei and R.H. Reuss, "Spontaneous Ordering of Oxide Nanostructures," Science 287, 2285(2000).

S.R. Shinde, et al., Self organized pattern formation during oxidation of supported iron thin films - I: An experimental study", Phys. Rev B 64, 035408-1(2001).

J. Wang et al., " Epitaxial BiFeO₃ multiferroic thin film heterostructures", Science 299, 1719(2003).

H. Zheng et al., "Self assembled multiferroic nanostructures", Science, 303, 661(2004).

L. Mohaddes-Ardabili, et al., "Self-Assembled Single Crystal Ferromagnetic Iron Nanowires formed by Decomposition", Nature Materials, July 2004.