

Siu-Wai Chan

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RESEARCH INTERESTS

Nano-particles, Grain Boundaries, Interfaces, and Extended Defects in Thin Films, Electronic Oxides, fuel cell technology.

EDUCATION

MIT, 1985, Sc.D. in Materials Science and Engineering
Columbia University, 1980, B.S. in Metallurgy and Materials Science.

PROFESSIONAL EXPERIENCE

Associate Professor, Columbia University, 1990-present.
Co-chair of Materials Science and Engineering Program and Committee 7/'97-6/'99, 1/00-present.
Visiting Scientist, IBM Watson Research Lab., 1999.
Visiting Scientist, Bitter Magnet Lab, 1993-1995.
Member of Technical Staff, Bellcore, Red Bank, NJ, 1986-1990 & Murray Hill, NJ, 1985-6.

PROFESSIONAL ACTIVITIES

Chair Symposium on Nanostructural Materials at 2001 American Ceramic Meeting
Chair Symposia on High Temperature Superconductors at 1998 & 91 MRS Fall Meetings
Chair for various sessions at different MRS Meetings
Organizer of Prof. Nowick Symposium 1994
President 1994 & Secretary 1993 of the Materials Science Club
Panelist for National Science Foundation's program on Materials Research Science and Engineering Centers
Reviewer on Materials Science Projects for NSF and Hong Kong University Research Council
Reviewer for Philosophical Mag., Appl. Phys. Lett., J. of Appl. Phys. and J. of Materials Research.

ASSOCIATIONS

Materials Research Society
American Ceramic Society
The Minerals, Metals, Materials Society (TMS)
American Physical Society
Microscopy Society of America.

HONOR/AWARDS

IBM Faculty Award 1998,
Outstanding Woman Scientist Award 1997

Presidential Faculty Fellow from the White House and National Science Foundation 1993

DuPont Faculty Award 1991&2

Tau Beta Pi elected 1979

Sigma Xi elected 1982

Columbia Univ. SEAS Francis B.F. Rhodes Prize 1980.

PUBLICATIONS & PRESENTATIONS

75 publications with 43 papers in referred journals. Delivered over 50 invited talks.

PATENTS

U.S. # 5,087,608 awarded Feb. 11, 1992, 'Environmental Protection and Patterning of Superconducting Perovskites' with L.A. Farrow.

Pending: A Twin Microstructure... to Support High Critical Currents in High Magnetic Fields with M. Chopra Filed 4/10/98.