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Field of Research

Experimental Condensed Matter Physics:
Physics of Semiconductor Nanostructures
CMOS / Microfluidic Chips for Biology and Medicine

Education

B.S. Physics, 1971	California Institute of Technology
Ph.D. Physics, 1977	University of California, Berkeley
A.M. Hon., 1986	Harvard University

Employment

2003 to present	Mallinckrodt Professor of Applied Physics and Physics, Harvard
1986 to 2003	Gordon McKay Professor of Applied Physics and Professor of Physics, Harvard
1984 to 1986	Associate Professor of Physics and Applied Physics, Harvard
1979 to 1984	Assistant Professor of Physics and Applied Physics, Harvard

Honors and Affiliations

Fellow, American Physical Society, 2007
Director, NSF STC Center for Integrated Quantum Materials (Harvard, Howard, MIT) 2013-2018
Director, Harvard Center for Nanoscale Systems, 2013-present.
Director, NSF Nanoscale Science & Engineering Center (Harvard, MIT and UCSB), 2001-2012.
Director, NSF Materials Research Science & Engineering Center at Harvard, 1997 to 2001.
Executive Committee, NSF MRSEC Directors, 1998 to 2000.
Co-Director of Harvard Joint Services Electronics Program, 1995 to 1998.
National Board of Advisors, Center for Nanotechnology in Society, UCSB, 2006-present.
Board of Advisors, Nanoscale Informal Science and Engineering (NISE) Network, 2005-present.
Board of Advisors, Center for Integrated Nanotechnologies, Sandia National Lab, 2003-present.
Board of Advisors, DOE Center on Nanostructuring for Efficient Energy Conversion, Stanford.
California Nanosystems Institute (CNSI) Review Panel - UCLA & UC Santa Barbara, 2011.
Committee on Technology Development, Harvard, 2006-2007.
Executive Committee, Center for Imaging and Mesoscale Structures, Harvard, 2000-2004.
Chair, External Review Panel of Engineering & Applied Physics, Cornell University, 2004.
Chair, External Review Panel of the Physics Department, Duke University, 2000.
QUEST Distinguished Lecturer, University of California, Santa Barbara, 2000.
Co-Chairman, Gordon Research Conference on Condensed Matter Physics, 1988.
Board of Editors, Physica D - Nonlinear Phenomena, 1986 to 1990.