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## Gang Chen

*Carl Richard Soderberg Professor of Power Engineering  
Department Head  
Director, Pappalardo Micro and Nano Engineering Laboratories & DOE EFRC: Solid-State Solar-Thermal Energy Conversion Center (S3TEC)*



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### [Curriculum Vitae](#)

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#### **Research Interests**

Micro- and nanoscale heat transfer and energy conversion with applications in thermoelectrics, photovoltaics, solar thermal-energy to electrical energy conversion; and microelectronics; nano-mechanical devices and micro-electro-mechanical systems; radiation and electromagnetic metamaterials, nanoengineered high thermal conductivity soft matters (polymers, colloids, and liquids), and desalination.

#### **Teaching Interests**

Heat transfer, thermodynamics, micro/nano transport and technology, radiation.

#### **Education**



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UC Berkeley (Ph.D., 1993)

Huazhong University of Science and Technology (Bachelor, 1984; Master, 1987)

### **Selected Honors and Awards**

75th Anniversary Medal of the ASME Heat Transfer Division

Fellow, American Physical Society, 2012

DSE Desalination Listed by Scientific American as Top 10 World Changing Ideas, 2012

Capers and Marion McDonald Award for Excellences in Mentoring and Advising, MIT, 2011

Member, National Academy of Engineering, 2010

High Thermal Conductivity Polymer Listed as Top 10 Breakthrough by J. Assoc. Lab. Automation, 2010

Fellow, American Association for the Advancement of Science (AAAS), 2009

Carl Richard Soderberg Professor of Power Engineering, 2009-

ASME Heat Transfer Memorial Award, 2008

R&D 100 Award, 2008

Warren and Towneley Rohsenow Professor, 2006-2009

Fellow, American Society of Mechanical Engineers (ASME), 2006

Guggenheim Fellow, 2002-2003

National Science Foundation Young Investigator Award, 1994

Warren Faculty Scholar, Duke University, 1996-1997

### **Professional Activities**

Department Head, July 2013-

Area Head: Micro/Nano Engineering, MIT ME Department, 2005-2009, 2011-2013

Co-Editor: Annual Review of Heat Transfer

Editor, Journal of Nanomaterials

Editor: Nanoscale and Microscale Thermophysical Engineering

Editor: Journal of Computational and Theoretical Nanoscience

Associate Editor: Journal of Heat Transfer, 2002-2005

Chair, Advisory Board, ASME Nanotechnology Institute, 2005-2008

Member: Advisory Committee, Applied Science Center, Academia Sinica

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