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Education:

- Ph. D. in Applied Physics (1983-1989), Harvard University, Cambridge, MA, USA
- B. S. in Physics (1977-1981), National Taiwan University, Taipei, Taiwan

Professional employment history:

- Research Fellow (2000-present) and Associate Research Fellow (1994-2000) in the Center for Condensed Matter Sciences; Teaching Assistant in Physics (1981-1983), National Taiwan University, Taipei, Taiwan
- Technical Member: Materials Scientist (1989-1994), General Electric, Corporate Research and Development, Materials Research Center, Schenectady, NY, USA

Research interest:

Nanomaterials, interface, plasma-based processes, optoelectronics, energy, sensing

Publications and patents:

11 US & Taiwan patents (2 more pending), 10 invited book chapters/review articles, 296 referred journal articles (Total citations = 6,081, Average citation per item = 20.54, and H-index = 38).

Honors and awards:

- Outstanding Scholar Award, Foundation for the Advancement of Outstanding Scholarship, Taiwan (2010-2015)
- Outstanding Research Award, National Science Council, Taiwan (2010-2013)
- Fellow, the Materials Research Society, USA (2010)
- Laureate of the Khwarizmi International Award, Iran (2009)
- International Federation of Inventors' Association Lady Prize (2009)
- Distinguished Visiting Research Fellow, Royal Academy of Engineering, UK (2008)
- Outstanding Scholar Research Project, National Science Council, Taiwan (2008-2011)
- Distinguished Research Fellow, National Taiwan University, Taiwan (2007-present)
- Honorary Doctor, Linköping University, Sweden (2007)
- Outstanding Research Award, National Science Council, Taiwan (2007)
- Fellow, the Physical Society of ROC in Taiwan (2006)
- Research Achievement Award, National Taiwan University, Taiwan (2004)
- Academia Sinica Young Scholar Research Award, Taiwan (2000)

Professional experience (*most recent activities*):

- Editorial Board: *Nanoscience and Nanotechnology Letters*, American Scientific Publishers (2010-); *Advanced Materials Letters*, VBRI Press (2010-); *Open Phys. Chem. Journal* and *Open Appl. Phys. Journal*, Bentham Science Publishers (2007-); *Intl. J. of Molecular Engineering*, Inderscience Publishers (2007-); *Critical Reviews in Solid State and Materials Sciences*, Taylor and Francis (2004-)
- Associate Editor: *J. of Vacuum Science and Technology B-Microelectronics and Nanometer Structures* (2004-2006)
- Meeting Chair: MRS Fall Meeting 2009, Boston, USA; AVS-ICON 2005, Taipei, Taiwan
- Symposium Chair: MRS Spring Meeting 2008, San Francisco, USA; IMRC China-MRS 2008, Chongqing, China; 214th ECS & Pacific Rim Meeting on Electrochemistry & Solid-State Science (PRiME 2008), Honolulu, USA; 213th ECS 2008, Phoenix, AZ, USA; AVS-ICMCTF 2004-2007, San Diego, USA
- International Scientific Advisory or Program Committee: Intl. Conf. on Nanomaterials & Nanotechnology (ICNANO 2011), Dec. 18-21, 2011, Delhi, India; SPIE Photonics West 2011, Jan. 22-27, 2011, San Francisco, USA; NANOCarbon 2010-IVESC, Oct. 14-16, 2010, Nanjing, China; IEEE Nano 2010, Aug. 17-20, 2010, Seoul, Korea; 2nd Intl. Conf. on Surface, Coatings and Nanostructured Materials (NanoSMAT), July 9-11, 2007, Algarve, Portugal; Thin Films 2006, Dec. 11-15, 2006, Singapore; 11th Intl. Ceramics Congress and 4th Forum on New Materials (CIMTEC), on Diamond and Other New Carbon Materials, June 4-9, 2006, Sicily, Italy; 6th Intl. Symposium on Blue Laser and Light Emitting Diodes (ISBLLED), May 15-19, 2006, Montpellier, France; European Conf. on Diamond, Diamond-like Materials, Carbon Nanotubes, Nitrides and SiC (2004-)
- Proceeding Editor: *Carbon Nanotubes and Related Low-Dimensional Mater.*, MRS Proc. Vol.1081E, Warrendale, PA, 2008; *State-of-the-Art Program on Compound Semiconductors 48: ZnO, InZnO and InGaO Related Materials and Devices for Electronic and Photonic Applications*, Electrochem. Soc., Pennington, NJ, 2008, Vol.1/No.2; *Diamond and Related Mater. Vol.18, Iss.2-3_Proc. of the Intl. Conf. on New Diamond and Nano Carbons 2008*, Elsevier B. V., 2009
- Professional Society Service: Chair (2010-2011), Pacific Rim Subcommittee of MRS, USA; Founding President (2006-2008), the Taiwan Chapter of AVS (Taiwan-AVS); Vice President (2006-2007) & Councilor (2003-2009), the Physical Society, Taiwan; Councilor (2003-2007, 2010-), the Taiwan Association of Coating Technology, Taiwan; Supervisor (2009-), the Taiwan Vacuum Society, Taiwan
- Member of Project Review Panel on Physics (2007-2009) & Advisory Board on Physics (2010-), National Science Council in Taiwan