

Curriculum Vitae

Dr. Li-Chyong Chen (林麗瓊)

Professor, Department of Physics, &
Distinguished Research Fellow, Center for Condensed Matter Sciences (CCMS), &
Director, Center of Atomic Initiative for New Materials (AI-Mat),
National Taiwan University



Date of Birth: 12 March, 1959; Citizenship: Taiwan

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(An oral history conducted in 2015 by Kelsey Irvin, IEEE History Center, Hoboken, NJ, USA:

http://ethw.org/Oral-History:Li-Chyong_Chen)

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:

- Professor in Physics (2021.08-present); Director (2018-present), Center of Atomic Initiative for New Materials; Director (2012-2018), 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

Honors and awards:

- Fellow, the World Academy of Sciences (2024)
- Academician, Academia Sinica (2022)
- Y. Z. Hsu Scientific Chair Professor _Nano Science & Technology (2020)
- Academic Award, Ministry of Education (2018)
- Fellow, Taiwan Vacuum Society (2018)
- Taiwan Outstanding Women in Science (2017)
- Academician of Asia-Pacific Academy of Materials (2015)
- Acharya Vinova International Award in Materials Science and Technology for Year 2013 (AVI-2013), VBRI, India (2013)
- Ho Chin-Tui Outstanding Scholar Award, Ho Chin-Tui Foundation, Taiwan (2012)
- 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)
- Reinhold Rudenberg Memorial Prize, Harvard, USA (1989)
- IBM Pre-doctoral Fellowship, USA (1986-1988)

Professional service (*most recent activities*):

***** International*****

- Member of the Commission on Structure and Dynamics of Condensed Matter (C.10), International Union of Pure and Applied Physics (3yr-term +1, 2018-2021)
- Member of the Board of Directors, Materials Research Society (3yr-term, 2017-2019)
- Series Editor, Member of the Series Board (2015-present), *WSPC Series in Nanoscience and Nanotechnology*, World Scientific Publishers
- Advisory Editor (2013-2019), Book Series on *Energy and Sustainability*, Cambridge University Press and the Materials Research Society
- Editorial Board (2010-2017), *Advanced Materials Letters*, VBRI Press
- Editorial Board (2010-2012), *Nanosci. Nanotech. Lett.*, American Scientific Publishers
- Editorial Board (2007-2013), *Open Phys. Chem. Journal*, Bentham Science Publishers
- Editorial Board (2007-2013), *Open Appl. Phys. Journal*, Bentham Science Publishers
- Editorial Board (2007-present), *Intl. J. of Molecular Engineering*, Inderscience Publishers
- Editorial Advisory Board (2004-present), *Critical Reviews in Solid State and Materials Sciences*, Taylor and Francis
- Associate Editor (2004-2006), *J. of Vacuum Science and Technology B-Microelectronics and Nanometer Structures*
- Meeting Chair: MRS Fall Meeting 2009, Boston, MA, USA
- Symposium Chair: MRS Spring Meeting 2008, San Francisco, CA, USA
- Symposium Chair: IMRC/China-MRS 2008, Chongqing, China
- Symposium Chair: 214th ECS & Pacific Rim Meeting on Electrochemistry & Solid-State Science (PRiME 2008), Honolulu, HI, USA
- Symposium Chair: 213th ECS 2008, Phoenix, AZ, USA
- Symposium Chair: International Conference on Metallurgical Coatings and Thin Films (ICMCTF) 2004-2007, San Diego, CA, USA
- International Advisory Committee (2004-2013), European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, Nitrides and SiC (15th: Riva Del Garda, Italy, 2004; 16th: Toulouse, France, 2005; 17th: Estoril, Portugal, 2006; 18th: Berlin, Germany, 2007; 19th: Sitges, Spain, 2008; 20th: Athens, Greece, 2009; 21st: Budapest, Hungary, 2010; 22nd: Garmisch-Partenkirchen, Bavaria, Germany 2011; 23rd: Granada, Spain, 2012; 24th: Riva Del Garda, Italy, 2013)
- International Advisory Board or Program Committee: 11th Asia-Pacific Forum on Renewable Energy (AFORE 2022), September 27-October 3, 2022, Jeju, Korea; 10th Asia-Pacific Forum on Renewable Energy (AFORE 2021), October 31-November 3, 2021, Jeju, Korea; 8th Forum on New Materials (CIMTEC 2018), 6th Intl. Conf. on *Novel Functional Carbon Nanomaterials*, June 10-14, 2018, Perugia, Italy; International Conference on New Diamond and Nano Carbons (NDNC 2018), May 20-24, 2018, Flagstaff, AZ, USA; Advanced Materials World Congress (AMWC 2015), August 23-26, 2015, Stockholm, Sweden; 6th Forum on New Materials (CIMTEC 2014), on *Novel Functional Carbon Nanomaterials*, June 15-20, 2014, Montecatini Terme, Tuscany, Italy; International Conference on Nanosystems and Applications, MAM12, November 21-25, 2012, Coimbatore, India; International Conference 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; 6th International Workshop on Nitride Semiconductors (IWN 2010), September 19-24, 2010, Tampa, Florida, USA; IEEE Nano 2010, Aug. 17-20, 2010, Seoul, Korea; 2nd International Conference on Surface, Coatings and Nanostructured Materials (NanoSMAT), July 9-11, 2007, Algarve, Portugal; Thin Films 2006, Dec. 11-15, 2006, Singapore; 11th International Ceramics Congress and 4th Forum on New

Materials (CIMTEC 2006), on Diamond and Other New Carbon Materials, June 4-9, 2006, Sicily, Italy; 6th International Symposium on Blue Laser and Light Emitting Diodes (ISBLLED), May 15-19, 2006, Montpellier, France

- Proceeding Editor: *Carbon Nanotubes and Related Low-Dimensional Materials*, ed. L. C. Chen, D. B. Geohegan, J. Robertson, and Z. L. Wang (Mater. Res. Soc. Symp. Proc. Volume 1081E, Warrendale, PA, 2008)
- Proceeding Editor: *State-of-the-Art Program on Compound Semiconductors 48: ZnO, InZnO and InGaO Related Materials and Devices for Electronic and Photonic Applications*, ed. M. E. Overberg, F. Ren, B. Gila, P. S. Nam, H. Ouyang, L. C. Chen, Y. Heo, J. Kim, J. LaRoche, P. Shen, and K. Shiojima (Electrochem. Soc., Pennington, NJ 2008), Vol. 1, No. 2.
- Guest Editor: *Thin Solid Films* Vol. 688, Special Issue on *Thin Films Advances*, ed. Ivan Petrov, Lars Hultman, Michael Stueber, Li-Chyong Chen, Patrick Desjardins (Elsevier B. V., 2019)
- Guest Editor: *Diamond and Related Materials* Vol. 18, Issues 2-3 *Proceedings of the International Conference on New Diamond and Nano Carbons 2008*, ed. I. N. Lin, K. H. Chen, L. Chang, L. C. Chen, and Y. H. Tzeng (Elsevier B. V., 2009)
- Journal Paper Reviewer: *Science, Nature Materials, Nature Nanotechnology, Nature Communications, Nano Letters, Advanced Materials, Advanced Functional Materials, J. of American Chemical Society, ACS Nano, Chemistry of Materials, Optics Express, Applied Physics Letters, J. of Applied Physics, J. of Physical Chemistry-B, Diamond and Related Materials, J. of Vacuum Sci. and Tech.-B, Materials Chem. and Phys., Thin Solid Films*
- Chair (2010-2011), Pacific Rim Subcommittee of MRS, USA

***** **Domestic*******

- Member of the Board of Directors (2018-2021; 2021-present) & Supervisor (2015-2018), National Synchrotron Radiation Research Center, Taiwan
- Advisory Committee on Academic Development (2016-2018), National Synchrotron Radiation Research Center, Taiwan
- Advisory Committee on Science Education (2007-2023), Ministry of Education in Taiwan
- Councilor (2003-2007, 2010-2021), the Taiwan Association of Coating Technology, Taiwan
- Supervisor (2011-2013), the Society of Taiwan Women in Science & Technology, Taiwan
- Supervisor (2009-2012), the Taiwan Vacuum Society, Taiwan
- Member of Project Review Panel & Advisory Board on Physics (2007-2009 & 2010-2012), Natural Sciences and Mathematics Division, National Science Council in Taiwan
- Vice President (2006-2007) & Councilor (2003-2009), the Physical Society, Taiwan
- Founding President (2006-2008), the Taiwan Chapter of AVS (Taiwan-AVS)
- Chair (2003-2005), Female Physicist Committee of the Physical Society, Taiwan
- Consultant (2002-2004, 2006-2008), Industrial Technology Research Institutes, Taiwan
- Meeting Chair: TACT 2015 International Conference on Thin Films, Tainan, Taiwan
- Meeting Chair: TACT 2013 International Conference on Thin Films, Taipei, Taiwan
- Meeting Chair: TACT 2011 International Conference on Thin Films, Kenting, Taiwan
- Meeting Chair: AVS-ICON 2005, Taipei, Taiwan

International conferences: 6 Plenary talks, 28 Keynote talks, and 91 Invited talks (*full list can be provided upon request*)

Expertise areas and research interests: Nanomaterials, Thin Film Technologies, Energy, Optoelectronics, and Sensing

Publications and patents (till March 20, 2024): 18 US & Taiwan patents (plus 2 more pending); 16 invited book chapters & review articles; ~ 455 referred journal articles. (> **20 highly-cited papers, 1 fast breaking paper by ISI, 1 hottest article in catalysis by Wiley, 1 most popular 2020 articles by Nanoscale**)

Google Scholar Profile: 27,961 citations, H-index=81 (updated March 20, 2024)

Li-Chyong Chen (L. C. Chen)