

Name : **Li-Chyong Chen (林麗瓊)**

**Chair Professor**, *Department of Physics*, and jointly appointed **Research Fellow**, *Center for Condensed Matter Sciences (CCMS) & Director*, *Center of Atomic Initiative for New Materials (AI-Mat)*, National Taiwan University (NTU), Taipei, Taiwan.

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Education :

- B.S. Department of Physics, National Taiwan University (1981.06)
- Ph.D. Applied Physics, Harvard University, USA (1989.07)

Experience :

- Materials Scientist, General Electric Corp. R&D, Schenectady, NY, USA (1989.09-1994.06)
- Associate Research Fellow (1994.07-2000.07), Research Fellow (2000.08-Present), and Director (2012.08-2018.07), CCMS, NTU; Professor, Department of Physics, NTU (2021.08-Present)
- Director, AI-Mat, NTU (2018.01-Present) {a featured research center by the Sprout Project under the Ministry of Education (MoE) in Taiwan}

Research Interests :

Nanomaterials, Thin Film Technologies, Energy, Optoelectronics, and Sensing

Selective Awards/Honors :

- National Chair Professor (2025), and Academic Award (2018), MoE, Taiwan
- Academician: the World Academy of Science (2024); Academia Sinica, Taiwan (2022); Asia-Pacific Academy of Materials (2015)
- Y. Z. Hsu Scientific Chair Professor \_Nano Science & Technology, Taiwan (2020)
- Taiwan Outstanding Women in Science, Taiwan (2017)
- Outstanding Research Award, National Science and Technology Council, Taiwan (2010 & 2007)
- Fellow: the Materials Research Society, USA (2010); Taiwan Physics Society (2006)
- Laureate of the Khwarizmi International Award, Iran (2009)

Selective Appointed/Elected Positions :

- Science Advisory Committee (2025-present), Member of the Board of Directors (2018-2021 and 2021-2024) & Supervisor (2015-2018), *National Synchrotron Radiation Research Center*, Taiwan
- 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*, USA (3yr-term, 2017-2019)
- Series Editor, Member of the Series Board, *WSPC Series in Nanoscience and Nanotechnology*, World Scientific Publisher (2015-present)
- Meeting Chair: *MRS Fall Meeting*, Boston, MA, USA (2009)
- Advisory Committee on Science Education, *MoE*, Taiwan (2007-2023)

Selective Papers :

1. "Regulating COOH Intermediate via Rationally Constructed Surface-Active Sites of Bi<sub>2</sub>WO<sub>6</sub> for Solar-Driven CO<sub>2</sub>-to-CO Production" N. Q. Thang, K.-H. Chen\*, L.-C. Chen\* *et al.* **Adv. Funct. Mater.** **2025**, 2423751.
2. "Enhanced CO<sub>2</sub> Photoreduction to CH<sub>4</sub> via\* COOH and\* CHO Intermediates Stabilization by Synergistic Effect of Implanted P and S Vacancy in Thin-film SnS<sub>2</sub>" T. T. Mamo, M. Qorbani\*, H.-L. Wu\*, L.-C. Chen\*, K.-H. Chen\* *et al.* **Nano Energy** **2024**, 128, 109863.
3. "Constructing B–N–P Bonds in Ultrathin Holey g-C<sub>3</sub>N<sub>4</sub> for Regulating the Local Chemical Environment in Photocatalytic CO<sub>2</sub> Reduction to CO", M. K. Hussien, K.-H. Chen\*, L.-C. Chen\* *et al.* **Small** **2024**, 20, 2400724.
4. "Axial Chlorine Induced Electron Delocalization on Atomically Dispersed Fe-N<sub>4</sub> Electrocatalyst for Oxygen Reduction Reaction with Improved Hydrogen Peroxide Tolerance", P. Sabhapathy, L.-C. Chen\* *et al.* **Small** **2023**, 19, e2303598.
5. "Atomistic Insights into Highly Active Reconstructed Edges of Monolayer 2H-WSe<sub>2</sub> Photocatalyst", M. Qorbani, A. Sabbah, K. H. Chen\*, L. C. Chen\* *et al.* **Nature Comm.** **2022**, 13, article number 1256.
6. "Boosting Photocatalytic CO<sub>2</sub> Reduction in a ZnS/ZnIn<sub>2</sub>S<sub>4</sub> Heterostructure through Strain-induced Direct Z-scheme and Mechanistic Study of Molecular CO<sub>2</sub> Interaction", A. Sabbah, I. Shown\*, K. H. Chen\*, L. C. Chen\* *et al.* **Nano Energy** **2022**, 93, 106809.