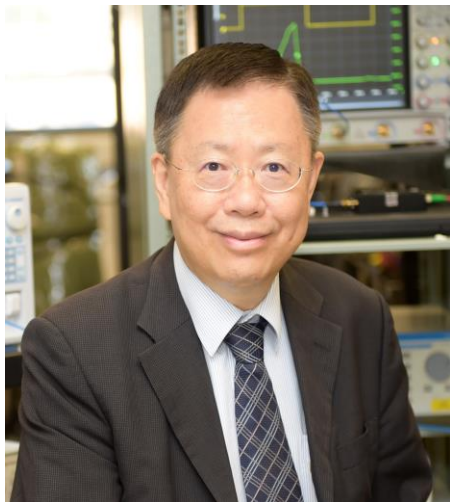


台灣物理學會 會士簡介

會士照片



學術貢獻

在近場與奈米光學方面之傑出貢獻。

會士主要學經歷

- Emeritus Professor, Department of Physics, National Taiwan University, August 2019-
- Distinguished Researcher/Director, Research Center for Applied Sciences, Academia Sinica, 2012-2019.
- Distinguished Researcher/Director General, Taiwan Instrument Technology Institute, National Applied Research Laboratories, 2008-2012.
- Associate Professor/Professor/Distinguished Professor, National Taiwan University, 1999-2019.
- Associate Professor, National Chung Cheng University, Chia-Yi, 1994-1999.
- Post-doctoral Fellow, Ontario Laser & Lightwave Research Center, Canada, 1991-1994.
- Member of Research Staff, Micro Lithography Inc., Sunnyvale, California, USA, 1990-1991.
- PhD., Department of Physics, University of Cincinnati, OHIO, USA, 1985-1990.

會士主要研究工作成果簡述

文字簡述

研究探索在奈米尺度 (nm) 中之光與物質的交互作用，研究光學繞射極限 (optical diffraction limit) 之外的奈米光學 (Nano-Optics)，以及其之各種新穎物理現象，希望能結合基礎科學的探索與實際應用的發展，包括近場光學 (near-field optics)、奈米光子學 (nanophotonics)、電漿子學 (plasmonics) 與超穎物質 (metamaterial) 等，應用於光電元件與裝置 (electro-optical devices)、綠色科技 (green technology)、量子信息科技 (quantum technology) 與生醫應用科學 (Biomedical science) 的實際應用上。

代表性文章列表(最多五篇)

- “Metalens-array-based high-dimensional and multiphoton quantum source,” **Science** 368, 1487-1490 (2020).
- “Achromatic metalens array for full-colour light-field imaging,” **Nature Nanotechnology** 14, 227-231 (2019).
- “A broadband achromatic metalens in the visible,” **Nature Nanotechnology** 13, 227-232 (2018).
- “Toroidal Dipolar Response in a Metamaterial,” **Science** 330, 1510-1512 (2010).
- “Photon scanning-tunneling-microscopy images of optical-excitations of fractal metal colloid clusters,” **Physical Review Letters** 72, 4149-4152 (1994).

最具代表性研究成果以圖/表/方程式呈現

