

# ITRI – Dr. 陳信助

- 工業技術研究院\_電光系統所\_專案經理
- Ph. D, Electro-Optical Engineering, NYCU
- Research focus: GaN-based electronics devices, Flexible OLEDs, Novel QDs LEDs, and Photovoltaic Devices
- Brief introduction:

Hsin Chu Chen received his Ph.D. in the Department of Photonics and Institute of Electro-Optical Engineering from National Chiao Tung University, Taiwan, in 2012. He studied the optical electric characteristics of quantum dots, and then applied them to highly efficient hybrid photovoltaic devices and hybrid white light-emitting diode (WLED). He published 19 SCI journal papers, 28 conference papers, International SPIE Newsroom, and International Nanotechnology News. He received the Outstanding Graduate Award from National Chiao Tung University. Then, he joined Electronic and Optoelectronic System Laboratories (EOSL) of ITRI. He establishes an R2R pilot-scale line as the flexible OLED lighting module fabrication and successfully exhibited more than 300 pcs of flexible OLED lighting module by R2R processes in the 12th Taiwan Solid State Lighting (2018 tSSL). He devoted himself to GaN-based electronics devices processing development and focuses on the key technology development of GaN-based electronics devices including the functional substrate, the atomic layer of etching and deposition process, and Schottky-gate and MIS-HEMTs structure. He also co-work with an international company to develop the 6 and 8 inches GaN HEMTs device fabrication via ALE and ALD technology (from 2021 to the present).