

Dr. Terry Chien-Jen Yang is a Research Fellow with over 14 years of experience in semiconductor materials, thin-film devices, and optoelectronics. He recently joined the Aaron Thean Group (ATG) in the Department of Electrical and Computer Engineering at the National University of Singapore (NUS), where his research focuses on **novel p-type oxide materials for thin-film transistors**, as well as **oxide-based photonic devices**. His interests span functional oxides, perovskites, and quantum dots for next-generation electronic and photonic integration.

Dr. Yang has extensive experience in thin-film deposition, device fabrication, and interface engineering, having worked with a wide range of oxide and semiconductor materials using techniques such as magnetron sputtering, physical vapour deposition, and atomic layer deposition. His prior research has addressed charge transport, optical management, and multilayer device architectures across optoelectronic devices and nanostructured materials. He has held research appointments at leading institutions including the University of Cambridge, EPFL, CSIRO, and UNSW, contributing to collaborative projects in semiconductor and advanced thin-film devices.

He received his PhD and Bachelor of Engineering (First Class Honours) in Photovoltaic Engineering from the University of New South Wales, where his doctoral work focused on **transparent conducting oxides and silicon quantum dots**, building a strong foundation in oxide electronics and device interfaces. Dr. Yang has co-authored more than 35 peer-reviewed publications, delivered numerous international conference presentations, and actively contributed to the research community through peer-reviews and collaborative projects. Originally from Sydney, Australia, he maintains a strong interest in semiconductor technology translation and emerging electronic–photonic systems.

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