**Biography: Chee-Keong Tan** is an Assistant Professor in the Advanced Materials Thrust of Function Hub at The Hong Kong University of Science and Technology (Guangzhou) and an affiliated assistant professor in the Department of Electronic and Computer Engineering at The Hong Kong University of Science and Technology (Clear Water Bay). He obtained his Ph.D. in Electrical Engineering from the Lehigh University in 2016 and his B.Eng. in Electrical Engineering from the University of Sheffield in 2011. His research has focused on semiconductor materials and quantum structures for electronic and optoelectronic devices applications. Tan has extensive experience in semiconductor materials design especially in wide and ultrawide bandgap semiconductors, such as dilute-anion III-Nitride and III-Oxide based materials. Specifically, he has established foundational work in dilute-anion III-Nitride field, bringing up novel concepts that provide breakthrough from fundamental bottlenecks in conventional III-Nitrides. Dr. Tan has authored or co-authored over 100 refereed journal publications and conference presentations in total.

**Research interests:** Prof. Chee-Keong Tan’s research interests are related to novel materials and quantum structure design for future devices. Tan’s team is working on the following topics: (1) Ultrawide bandgap gallium oxide and related III-oxide materials and (2) III-nitride and their quantum structures, with applications focused in microelectronics, solid state lighting, optoelectronics, and sensors. Tan’s research group cover both aspects of computational and experimental research works.

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