Professor Hoe Tan
Head of Department
Department of Electronic Materials Engineering
College of Science
Australian National University

Email : Hoe.Tan@anu.edu.au
Office: John Carver 4 17

Dr. Hoe Tan received his B. Eng for University of Melbourne and PhD for Australian National University. His research interests include:

- Epitaxial growth of low dimensional semiconductor structures and devices
- Ion implantation of semiconductors for optoelectronic applications
- Device fabrication/processing and testing/characterisation of optoelectronic devices
- Technology development for optoelectronics-related products/components

Selected Publications:

1. Qu J, Du S, Burgess T, Wang C, Cui X, Gao Q, Wang W, Tan H, Liu H, Jagadish AC C, Zhang Y, Chen H, Khan M, Ringer S, Zheng R, "3D Atomic-Scale Insights into Anisotropic Core-Shell-Structured InGaAs Nanowires Grown by Metal-Organic Chemical Vapor Deposition," Advanced Materials 29, 31(2017) 1-8
2. Qu J, Du S, Burgess T, Wang C, Cui X, Gao Q, Wang W, Tan H, Liu H, Jagadish AC C, Zhang Y, Chen H, Khan M, Ringer S, Zheng R, "3D Atomic-Scale Insights into Anisotropic Core-Shell-Structured InGaAs Nanowires Grown by Metal-Organic Chemical Vapor Deposition, Advanced Materials 29, 31(2017) 1-8
3. Pei J, Yang J, Wang X, Wang F, Mokkapati S, Lu T, Zheng J, Qin Q, Neshev D, Tan H, Jagadish AC C, Lu Y, "Excited State Biexcitons in Atomically Thin MoSe2," ACS Nano 11, 7(2017) 7468-7475
4. Nie K, Li J, Chen X, Xu Y, Tu X, Ren F, Du Q, Fu L, Kang L, Tang K, Gu S, Zhang R, Wu P, Zheng Y, Tan H, Jagadish AC C, Ye J, "Extreme absorption enhancement in ZnTe:O/ZnO intermediate band core-shell nanowires by interplay of dielectric resonance and plasmonic bowtie nanoantennas," Scientific Reports 7, 1(2017) 7503-7503
5. Narangari P, Karuturi S, Lysevych M, Tan H, Jagadish AC C, "Improved photoelectrochemical performance of GaN nanopillar photoanodes," Nanotechnology 28, 15(2017)
6. Rota M, Ameruddin A, Wong-Leung J, Belabbes A, Gao Q, Miriametro A, Mura F, Tan H, Polimeni A, Bechstedt F, Jagadish AC C, Capizzi M, Critical Temperature for the Conversion from Wurtzite to Zincblende of the Optical Emission of InAs Nanowires, Journal of Physical Chemistry C 121, 30(2017) 16650-16656.
7. Xu W, Shi Y, Ye J, Ren F, Shadrivov I, Lu H, Liang L, Jin B, Zhang R, Zheng Y, Tan H, Jagadish AC C, Xu W, Ren F, A Terahertz Controlled-NOT Gate Based on Asymmetric Rotation of Polarization in Chiral Metamaterials, Advanced Optical Materials Online Version(2017) 1-7
8. Tan H, The influence of atmosphere on the performance of pure-phase WZ and ZB InAs nanowire transistors, Nanotechnology 28, 45(2017)
9. Alanis J, Saxena D, Mokkapati S, Jiang N, Peng K, Tang X, Fu L, Tan H, Jagadish AC C, Parkinson P, Large-scale statistics for threshold optimization of optically pumped nanowire lasers, Nano Letters 17, 8(2017) 4860-4865