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James Hwang is Professor of Electrical Engineering and Director of Compound Semiconductor Technology Laboratory at Lehigh University. He graduated with a B.S. degree in Physics from National Taiwan University in 1970, and completed M.S. (1973) and Ph.D. (1976) studies in Materials Science at Cornell University. After twelve years of industrial experience at IBM, Bell Labs, GE, and GAIN, he joined Lehigh in 1988. He cofounded GAIN and QED; the latter became the public company IQE. He was a Nanyang Professor at Nanyang Technological University, Singapore from 1999 to 2000, and a Program Manager for GHz-THz Electronics at the U.S. Air Force Office of Scientific Research from 2011 to 2013. He is a Life Fellow of the Institute of Electrical and Electronic Engineers. He has published more than 300 refereed technical papers with the citation index $h = 36$ and has been granted eight U. S. patents. His current research interest includes biosensing, two-dimensional atomic-layer materials, microwave devices and circuits, optoelectronics, and micro-electromechanical systems.