

Hadis Morkoç, Ph.D.

**Virginia Microelectronics Consortium Chair, Professor of Electrical Engineering and Physics,
Department of Electrical and Computer Engineering at VCU College of Engineering**

Engineering West Hall, Room 338, Richmond, VA, US

Professor Morkoç researches nitride semiconductor heterostructures and devices

Biography

Hadis Morkoc received the B.S.E.E and M.S.E.E. degrees from Istanbul Technical University, Turkey, and the Ph.D. degree in Electrical Engineering from Cornell University, Ithaca, NY. He was employed at Varian Associates, Palo Alto, CA, from 1976 to 1978, where he was involved in various novel FET structures and optical emitters based on then the new semiconductor heterostructures. He held visiting positions at AT&T Bell Laboratories (1978-1979), the California Institute of Technology and Jet Propulsion Laboratory (1987-1988), and the Air Force Research Laboratories-Wright Patterson AFB as a University Resident Research Professor (1995-1997). From 1978 to 1997 he was with the University of Illinois. In 1997, he joined the newly established School of Engineering at the Virginia Commonwealth University in Richmond, VA. He and his group have been responsible for a number of advancements in GaN and devices based on them. He has co-authored a book on nitride semiconductors and devices (Springer Verlag 1999, second edition is in process) and a two-volume book on MODFETs, authored some 35 book chapters, 42 tutorial-review-popular articles dealing with heterostructures, electronic and optoelectronic devices, and some 1050 technical articles. He is in the process of editing a three-volume book on timely topics with the turn of the century in mind.

Industry Expertise

Education/Learning, Research

Areas of Expertise

Group III-V Semiconductors, Light Emitting Diodes (LEDs), Nitride Semiconductor Heterostructures

Education

Cornell University

Ph.D. Electrical Engineering

Istanbul Technical University

M.S. Electrical Engineering

Istanbul Technical University

B.S. Electrical Engineering

Accomplishments

Honoris Causa

2010 Montpellier University II, Honorary Degree

Additional Honors and Awards

Virginia Scholarship and Scientist Awards, Prolific writer with over 1500 scientific papers, over 50 chapters, over 50 critical and seminal reviews, some 10 books, one of a handful who is highly cited in three different disciplines, pioneered many semiconductors and heterostructures including their popularization in print and broadcast media as well as scientific media.

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