



Dr. Hadis Morkoc

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Research Interests: Nitride semiconductor heterostructures and devices, nanostructures, and Group III-V semiconductors

Description:

Hadis Morkoç 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 authored, co-authored a book on nitride semiconductors and devices (Springer Verlag 1999, second edition is in process) and a two-volume book on MODFETs, some 35 book chapters, 42 tutorial-review-popular articles dealing with heterostructures, electronic and optoelectronic devices, 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. He delivered some 55 invited talks at major international meetings and some 110 seminars at various laboratories and universities around the world. He has been an IEEE-EDS distinguished lecturer since 1996. He holds several patents on various FETs and processes including the basic pseudomorphic MODFET patent, and serves or has served as a consultant to some 20 major industrial laboratories. According to Institute of Scientific Information and since 1982, the research papers of Dr. Morkoç have been cited some 11,000 times. Moreover, in a field encompassing condensed matter physics, electronic materials, metallurgy, ceramics, polymers, and materials chemistry, and in the five year period 1990 - 1995 and for all publications world-wide, Dr. Morkoç was listed as 18th and 4th in the total number of citations and the Citation Impact (number of citations per paper), respectively. The same service indicates that Dr. Morkoç ranked 19th among 517,111 physicists world-wide in terms of citations and citation impact between 1981 and 1997. In each of the two past decades he ranked among the top researchers in terms of citation impact and total number of citations.

Dr. Morkoç is a Fellow of the Institute of Electrical and Electronics Engineers, a Fellow of the American Association for the Advancement of Science, a Life Fellow of the American Physical Society, a member of the Material Research Society, a member of the Optical Society of America, a member of Sigma Pi Sigma, Eta Kappa Nu, a life member of Sigma Xi, and a life member of Phi Kappa Phi. He is listed in Who's who in America, Who's Who in the Midwest, American Men and Women in Science, Who's Who in Engineering, and International Men of Achievement.