

Prof. Hilmi Ünlü

Personal Information

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Biography

Prof. Dr. Hilmi Ünlü received his PhD degree in Electrical Engineering from University of Minnesota at Twin Cities, USA in 1986. After working at Coordinated Science Laboratory of the University of Illinois at Urbana-Champaign, U.S.A. as Post Doctoral Research Associate (1986-1989) he joined the University of Miami, Florida, U.S.A. as Assistant Prof. of Electrical & Computer Engineering (1990-1993). He then started working at İstanbul Technical University as Assistant Professor of Physics Engineering, where he has been Full Professor since 2005.

Prof. Dr. Hilmi Ünlü is an expert on nanoscience and nanotechnology of semiconductor materials and devices. He has co-authored 5 international scientific and technical books, authored/co-authored 3 book chapters and edited/translated 4 internationally well recognized physics books from English to Turkish, which was awarded by the Turkish Academy of Science (TÜBA) as the best translated book in Natural Sciences. He has published 35 scientific papers in refereed international journals indexed by Science Citation Index (SCI), 20 scientific works in Conference Proceedings and 30 abstracts in Book of Abstracts in international scientific conferences.

Education Information

Doctorate, University of Minnesota-Twin Cities, Elektrik Mühendisliği, United States Of America 1982 - 1986

Postgraduate, University of Minnesota-Twin Cities, Elektrik Mühendisliği, United States Of America 1982 - 1984

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1974 - 1978

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Theory of Heterojunctions, University Of Minnesota-Twin Cities, Elektrik Mühendisliği, 1986

Postgraduate, PN Junction Modelling, University Of Minnesota-Twin Cities, Elektrik Mühendisliği, 1984

Research Areas

Basic Sciences, Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science

Academic Titles / Tasks

Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 2005 - Continues
Associate Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1997 - 2005
Assistant Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1995 - 1997
Assistant Professor, University of Miami, College Of Engineering, Electrical And Computer Engineering, 1990 - 1992

Academic and Administrative Experience

Sarajevo Üniversitesi, 2010 - 2012
İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 2008 - 2009
İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, 2005 - 2008

Supported Projects

Ünlü H., Project Supported by Higher Education Institutions, Tight Binding Modelling of SiC/III-Nitride Heterostructures, 2016 - 2018
Ünlü H., Project Supported by Higher Education Institutions, BOND ORBİTAL MODELLİNG OF SiGEC/Si HETEROSTRUCTURES, 2015 - 2018
Ünlü H., Project Supported by Higher Education Institutions, Nanoboyutlu Yarıiletkenlerin Yoğunluk Fonksiyoneli Kuramı İle Tasarımı ve Bilgisayar Benzetimi, 2011 - 2013
Ünlü H., Project Supported by Higher Education Institutions, Heteroyapı Bipolar Tranzistörlerin Modellenmesi, 1998 - 2006
Ünlü H., Project Supported by Higher Education Institutions, Heteroyapı bipolar cihazda 1/F görüntüsünün tasarımı, 2004 - 2005
Ünlü H., Project Supported by Higher Education Institutions, Yarı İletken Heteroyapılarda Sıcaklığın ve Basıncın Yüklü Parçacıklara Etkisinin Bilgisayar Analizi, 1999 - 2001

Citations

Total Citations (WOS):363
h-index (WOS):11