

FERHAT NUTKU

PROF.

Email : fnutku@istanbul.edu.tr

Office Phone : [+90 212 455 5700](tel:+902124555700) Extension: 15407

International Researcher IDs

ScholarID: [kEz5MawAAAAJ](https://orcid.org/0000-0002-2052-4894)

ORCID: 0000-0002-2052-4894

Publons / Web Of Science ResearcherID: E-6807-2015

ScopusID: 37115782400

Yoksis Researcher ID: 47387



Learning Knowledge

Doctorate 2006 - 2012	Istanbul University, Institute of Graduate Studies In Sciences, Fizik Bölümü / Katıhal Fiziği Anabilim Dalı, Turkey
Postgraduate 2001 - 2003	Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Metalürji Ve Malzeme Mühendisliği Bölümü / Malzeme Anabilim Dalı, Turkey
Undergraduate 1995 - 1999	Istanbul University, Faculty Of Science, Department Of Physics, Turkey

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Education Management and Planning, Eğiticinin Eğitimi, İstanbul Üniversitesi Sürekli Eğitim Uygulama ve Araştırma Merkezi, 2020

IT, .NET ile Veritabanı Programlama, C ve Sistem Programcıları Derneği, 2004

IT, Visual Basic.NET, C ve Sistem Programcıları Derneği, 2003

Dissertations

Doctorate, Düşük Boyutlu Yarıiletken Sistemlerde Elektronik Transport Olaylarının İncelenmesi, Istanbul University, Institute of Graduate Studies In Sciences, Fen Fakültesi Bölümü, 2012

Postgraduate, Toz Metalürjisi ile Üretilen Parçaların Tahribatsız Muayenesi, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Metalürji ve Malzeme Mühendisliği, 2003

Academic Titles / Tasks

Associate Professor

2016 - Continues

Istanbul University, Faculty of Science, Department of Physics

Research Assistant PhD

2012 - 2017

Istanbul University, Faculty of Science, Department of Physics

Research Assistant

2006 - 2012

Istanbul University, Faculty of Science, Department of Physics

Supported Projects

1. SARCAN F., KURUOĞLU F., ÇOKDUYGULULAR E., ÇETİNKAYA Ç., DÖNMEZ Ö., NUTKU F., KARA K., AKALIN E., Project Supported by Higher Education Institutions, Characterization of temperature dependent operation of a GaInNAsbased RCEPD designed for 1.3 um, 2018 - 2018
2. EROL A., KARA K., SARCAN F., DÖNMEZ Ö., NUTKU F., YILDIRIM S., MUTLU S., KURUOĞLU F., AKALIN E., Project Supported by Higher Education Institutions, GaInNAs ve GaAsBi yarıiletkenleri ve bunlara dayalı geliştirilen aygıtların karakterizasyonu, 2017 - 2018
3. EROL A., DÖNMEZ Ö., YILDIRIM S., NUTKU F., ÇOKDUYGULULAR E., Project Supported by Higher Education Institutions, III-N-V ve III-Bi-V Yarıiletken Alaşımlarda Elektronik Transport, 2016 - 2017
4. DÖNMEZ Ö., EROL A., YILDIRIM S., AKALIN E., SARCAN F., NUTKU F., KARA K., KINACI B., Project Supported by Higher Education Institutions, Modülasyon katkılı GaBiAs kuantum kuyulu yapıların optik ve elektrik transport özelliklerinin incelenmesi, 2015 - 2017

Jury Memberships

Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, December, 2020

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, December, 2018

Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2017

Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2017

Designed Lessons

Nutku F., INTRODUCTION TO PHOTONICS AND PLASMONICS, Postgraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Superposition and interference states in q-deformed quantum oscillator**
Alomeare H., NUTKU F., AYDINER E.
European Physical Journal D, vol.78, no.5, 2024 (SCI-Expanded)
2. **Circular Dichroism in Nonlinear Topological Weyl Semimetals**
Alomeare H., Nutku F., Sarısamam M.
JOURNAL OF OPTICS, vol.26, no.6, pp.1-10, 2024 (SCI-Expanded)
3. **Complexity of HCl and H-2 molecules under q-deformed Morse potential**
NUTKU F., AYDINER E., Sen K. D.

- INDIAN JOURNAL OF PHYSICS, vol.96, no.4, 2022 (SCI-Expanded)
4. **Sub-diffraction focusing of light by aperiodic masks**
Mostafavi S., NUTKU F., Eksioğlu Y.
JOURNAL OF MODERN OPTICS, vol.69, no.21, pp.1214-1223, 2022 (SCI-Expanded)
 5. **Comparison of omnidirectional reflectivity of quasi-periodic dielectric multilayers**
Nutku F., Goksin S.
OPTIK, vol.228, 2021 (SCI-Expanded)
 6. **Electronic transport in n-type modulation-doped AlGaAs/GaAsBi quantum well structures: influence of Bi and thermal annealing on electron effective mass and electron mobility**
Donmez Ö., Aydın M., Ardali S., Yildirim S., Tiras E., Nutku F., Cetinkaya Ç., Cokduygular E., Puustinen J., Hilska J., et al.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.35, no.2, 2020 (SCI-Expanded)
 7. **Complexity study of q-deformed quantum harmonic oscillator**
Nutku F., Sen K. D., Aydinler E.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.533, 2019 (SCI-Expanded)
 8. **A study on the voltage-dependent response of a GaInNAs-based pin photodetector with a quasi-cavity**
Sarcan F., Nutku F., Nordin M. S., Vickers A. J., Ero A.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.33, no.11, 2018 (SCI-Expanded)
 9. **Optical properties of n- and p-type modulation doped GaAsBi/AlGaAs quantum well structures**
Cetinkaya C., Cokduygular E., Nutku F., Donmez Ö., Puustinen J., Hilska J., Erol A., Guina M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.739, pp.987-996, 2018 (SCI-Expanded)
 10. **Investigation of Bose-Einstein Condensates in q-Deformed Potentials with First Order Perturbation Theory**
Nutku F., Aydinler E.
COMMUNICATIONS IN THEORETICAL PHYSICS, vol.69, no.2, pp.154-158, 2018 (SCI-Expanded)
 11. **Effect of thermal annealing and nitrogen composition on quantum transport in GaInNAs alloy based modulation doped quantum well structures**
Nutku F., Donmez Ö., Cokduygular E., Sarcan F., Kuruoglu F., Mutlu S., Yildirim S., Erol A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.695, pp.404-409, 2017 (SCI-Expanded)
 12. **TEMPORAL VARIATIONS OF DIFFERENT SOLAR ACTIVITY INDICES THROUGH THE SOLAR CYCLES 21-23**
Goker U. D., SINGH J., Nutku F., PRIYAL M.
SERBIAN ASTRONOMICAL JOURNAL, vol.195, pp.59-70, 2017 (SCI-Expanded)
 13. **Current and efficiency optimization under oscillating forces in entropic barriers**
Nutku F., Aydinler E.
CHINESE PHYSICS B, vol.25, no.9, 2016 (SCI-Expanded)
 14. **Quantum oscillations and interference effects in strained n- and p-type modulation doped GaInNAs/GaAs quantum wells**
Sarcan F., Nutku F., Donmez Ö., Kuruoglu F., Mutlu S., Erol A., Yildirim S., Arikan M. C.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.48, no.30, 2015 (SCI-Expanded)
 15. **Current and efficiency of Brownian particles under oscillating forces in entropic barriers**
Nutku F., Aydinler E.
CHINESE PHYSICS B, vol.24, no.4, 2015 (SCI-Expanded)
 16. **Negative and positive magnetoresistance in GaInNAs/GaAs modulation-doped quantum well structures**
Nutku F., Donmez Ö., Sarcan F., Erol A., Puustinen J., Arikan M. C., Guina M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.118, no.3, pp.823-829, 2015 (SCI-Expanded)
 17. **Zero-bias offsets in I-V characteristics of the staircase type quantum well infrared photodetectors**
Nutku F., Erol A., Arikan M. C., Ergun Y.
APPLIED SURFACE SCIENCE, vol.318, pp.95-99, 2014 (SCI-Expanded)

18. **Quasi-bound levels, transmission and resonant tunneling in heterostructures with double and multi rectangular, trapezoidal, triangular barriers**
Nutku F.
JOURNAL OF COMPUTATIONAL ELECTRONICS, vol.13, no.2, pp.456-465, 2014 (SCI-Expanded)
19. **A study of photomodulated reflectance on staircase-like, n-doped GaAs/Al (x) Ga_{1-x} As quantum well structures**
Donmez Ö., Nutku F., Erol A., Arıkan C. M., Ergun Y.
NANOSCALE RESEARCH LETTERS, vol.7, 2012 (SCI-Expanded)
20. **I-V characterization of a quantum well infrared photodetector with stepped and graded barriers**
Nutku F., Erol A., Gunes M., Buklu L. B., Ergun Y., Arıkan M. C.
SUPERLATTICES AND MICROSTRUCTURES, vol.52, no.3, pp.585-593, 2012 (SCI-Expanded)

Articles Published in Other Journals

1. **Propagation of Light in Aperiodic Array Dielectric Layers**
Nutku F., Gökşin S.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.3, pp.1928-1938, 2021 (Peer-Reviewed Journal)
2. **A Statistical Analysis of Solar Surface Indices Through the Solar Activity Cycles 21-23**
Göker Ü. D., Singh J., Nutku F., Priyal M.
arxiv, vol.1, no.1, pp.1-14, 2016 (Non Peer-Reviewed Journal)
3. **Using Maxima Software In Physics**
NUTKU F.
Balkan Physics Letters, vol.16, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **Aperiyodik Multilayer Dielectric Reflectors**
Gökşin S., Nutku F.
21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 06 September 2019
2. **Electrical Properties Of Modulation Doped Bi-Containing Highly Mismatched Quantum Well Structures**
ÇETİNKAYA Ç., ÇOKDUYGULULAR E., DÖNMEZ Ö., EROL A., NUTKU F., YILDIRIM S.
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, vol.34, pp.273
3. **EFFECT OF BI ALLOYING ON THE OPTICAL PROPERTIES OF MODULATION DOPED GAASBI/ALGAAS QUANTUM WELL STRUCTURES**
ÇETİNKAYA Ç., ÇOKDUYGULULAR E., NUTKU F., DÖNMEZ Ö., EROL A.
Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 09 September 2018, pp.273
4. **Statistical Complexity Study of q-Deformed Harmonic Oscillator and Morse Potentials**
NUTKU F., Sen K., AYDINER E.
Kuantum Optiği ve Bilişim Toplantısı, İstanbul, Turkey, 1 - 02 February 2018, pp.1-2
5. **Influence of anharmonicity on statistical complexity of dilute Bose gases under cylindrical traps**
AYDINER E., NUTKU F., Sen K.
Kuantum Optiği ve Bilişim Toplantısı, İstanbul, Turkey, 1 - 02 February 2018, pp.1-3
6. **Optical and Electrical Properties of n- and p-type Modulation Doped GaAs_{1-x}Bi_x/Al_{0.15}Ga_{0.85}As Single Quantum Well Heterostructure**
ÇETİNKAYA Ç., ÇOKDUYGULULAR E., NUTKU F., DÖNMEZ Ö., Puustinen J., EROL A., Guina M.
International Conference on Condensed Matter and Material Sciences, Adana, Turkey, 11 - 15 October 2017, pp.125
7. **Photoluminescence Study of GaAs/AlGaAs and GaAsBi/AlGaAs Modulation Doped Quantum Well**

Structures

ÇETİNKAYA Ç., ÇOKDUYGULULAR E., NUTKU F., DÖNMEZ Ö., Puustinen J., EROL A., Guina M.

Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017, pp.125

8. **Optical characterization of n- and p-type modulation doped GaAsBi/AlGaAs quantum well structures**
ÇETİNKAYA Ç., ÇOKDUYGULULAR E., NUTKU F., DÖNMEZ Ö., Puustinen J., EROL A., Guina M.
8. International Workshop on Bismuth- Containing Semiconductors Philipps-Universitat Marburg, Marburg, Germany, 23 - 26 July 2017, pp.125
9. **Electronic bandstructure of semiconductor dilute bismide structures**
ERUCAR T., NUTKU F., DÖNMEZ Ö., EROL A.
Turkish Physical Society 32nd International Physics Congress, TPS 2016, Konacik-Bodrum, Turkey, 6 - 09 September 2016, vol.1815
10. **Investigation of Electronic Transport Properties in GaInNAs/GaAs Quantum Well Structures**
NUTKU F., DÖNMEZ Ö., ÇOKDUYGULULAR E., SARCAN F., KURUOĞLU F., MUTLU S., YILDIRIM S., EROL A.
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.125
11. **Temperature and electric field dependence of localization in modulation doped GaInNAs/GaAs quantum well structures**
YILDIRIM S., EROL A., SARCAN F., NUTKU F., KURUOĞLU F., DÖNMEZ Ö.
9th International Physics Conference of the Balkan Physical Union-BPU9, İstanbul, Turkey, 24 - 27 August 2015, vol.9, pp.161
12. **Weak Localization and Weak Antilocalization in n- and p-type Modulation Doped GaInNAs/GaAs Quantum Wells**
NUTKU F., SARCAN F., DÖNMEZ Ö., KURUOĞLU F., MUTLU S., EROL A., YILDIRIM S., ARIKAN M. Ç.
İstanbul Üniversitesi Dünya Teknoloji, İnovasyon ve Girişimcilik Konferansı, İSTANBUL, TÜRKİYE, 28-30 Mayıs 2015, İstanbul, Turkey, 28 - 30 May 2015, pp.80
13. **Magnetoresistance in n- and p-type GaInNAs GaAs Modulation Doped Quantum Well Structures**
NUTKU F., SARCAN F., DÖNMEZ Ö., EROL A., ARIKAN M. Ç.
Türk Fizik Derneği 31.Uluslararası Fizik Kongresi, Muğla, Bodrum., Muğla, Turkey, 21 - 25 July 2014, pp.137
14. **Zero-bias offsets in I-V characteristics of the staircase type quantum well infrared photodetectors**
Nutku F., Erol A., Arıkan M. Ç., Ergün Y.
Nanobilim ve Nanoteknoloji Konferansı 2013 - NanoTR-9, Erzurum, Turkey, 24 - 28 June 2013, pp.354
15. **Python in Fundamental Physics Calculations**
NUTKU F.
Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Muğla, Turkey, 1 - 04 September 2012, pp.314
16. **A Study of Photomodulated Reflectance on Staircase n-type GaAs/Al_xGa_{1-x}As Quantum Well Structures**
DÖNMEZ Ö., NUTKU F., EROL A., ARIKAN M. Ç., ERGÜN Y.
International Conference on Superlattices, Nanostructures and Nanodevices, ICSNN2012, Germany, 1 - 04 July 2012, pp.91
17. **Negative Magnetoresistance and Impurity Band Conduction in GaAs/AlGaAs Quantum Well Infrared Photodetector Structure**
Kendirlik M., NUTKU F., EROL A., ERGÜN Y., ARIKAN M. Ç.
Nanobilim ve Nanoteknoloji Konferansı 2012 – NanoTR-8, Ankara, Turkey, 1 - 04 June 2012, pp.326
18. **I-V Characteristics and Electron Exchange Interactions in a Staircase Quantum Well Infrared Photodetector**
NUTKU F., EROL A., ERGÜN Y., ARIKAN M. Ç.
Nanobilim ve Nanoteknoloji Konferansı 2012 – NanoTR-8, Ankara, Turkey, 1 - 04 June 2012, pp.375
19. **The experimentally observations of quantum Hall resistance overshoot in two dimensional electron gas at AlAs/AlGaAs heterostructures**
Kendirlik M., NUTKU F., Katmış F., SİDDİKİ A., ARIKAN M. Ç.
The 19th international conference on Electronic Properties of Two-Dimensional Systems (EP2DS19) and the 15th conference on Modulated Semiconductor Structures (MSS 15), United States Of America, 1 - 04 July 2011

20. **FTIR Spectroscopy of Quantum Well Infrared Photodetectors**
NUTKU F., ARIKAN M. Ç., EROL A., ERGÜN Y.
13th International Conference on Transparent Optical Networks ICTON 2011; COST Action MP0805 Annual Workshop Dilute III-V Alloy Semiconductors for Future Photonics (DILSEM-PHOTON), Sweden, 1 - 04 June 2011
21. **I-V characterization of a staircase quantum well infrared photodetector**
Nutku F., Arıkan M. C., Erol A., Ergun Y., Kendirlik E. M.
3rd International Symposium on Growth of III-Nitrides (ISGN), Montpellier, France, 4 - 07 July 2010, vol.8
22. **I-V Characterization of a Staircase Quantum Well Infrared Photodetector**
NUTKU F., ARIKAN M. Ç., EROL A., ERGÜN Y.
E-MRS 2010 Spring Meeting, France, 1 - 04 June 2010, pp.14
23. **Çoklu Kuantum Kuyularında Enerji Seviyeleri ve Elektron Yoğunlukları**
Nutku F., Erol A., Arıkan M. Ç.
5. Nano-elektronik Taşınım Sempozyumu, İstanbul, Turkey, 7 - 11 February 2010
24. **Asimetrik Kuantum Kuyularında Enerji Seviyelerinin Hesaplanması**
Nutku F.
4. Akyaka Nano-elektronik Taşınım Sempozyumu, Muğla, Turkey, 4 - 11 November 2009
25. **Preparation of Aluminum Oxide Templates and Their Structural Investigation**
NUTKU F., ARIKAN M. Ç.
Nanobilim ve Nanoteknoloji 2009 – NanoTR-5, Turkey, 1 - 04 June 2009, pp.66
26. **Fizikte Maxima Yazılımının Kullanımı**
NUTKU F.
Türk Fizik Derneği 25. Uluslararası Fizik Kongresi, Turkey, 1 - 04 August 2008, pp.275
27. **A Comparative Research in Blended Learning: State University vs Private University**
GÜLSEÇEN S., Uğurlu I., Ersoy M. E., NUTKU F.
Human Centred Technology Workshop 2005, United Kingdom, pp.29-32
28. **Ultrasonik Yöntemle Toz Metalürjik Parçaların Karakterizasyonu**
NUTKU F., TOPUZ A.
2. Uluslararası NDT Sempozyumu ve Sergisi, Turkey, 1 - 04 October 2003, pp.11

Courses

Quantum Physics II, Undergraduate, 2023 - 2024
Quantum Physics I, Undergraduate, 2023 - 2024
Quantum Mechanics I, Undergraduate, 2022 - 2023
Quantum Physics 1, Undergraduate, 2021 - 2022
Physics I, Undergraduate, 2021 - 2022
Introduction to Photonics and Plasmonics, Postgraduate, 2019 - 2020
Calculus I, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
General Physics II, Undergraduate, 2017 - 2018, 2016 - 2017
Introduction to Linear Algebra, Undergraduate, 2018 - 2019, 2017 - 2018
Calculus I, Undergraduate, 2018 - 2019, 2017 - 2018
Calculus II, Undergraduate, 2017 - 2018
Calculus II, Undergraduate, 2017 - 2018
Ordinary and Partial Differential Equations, Undergraduate, 2017 - 2018
Geometri, Associate Degree, 2016 - 2017
Mesleki Matematik II, Associate Degree, 2016 - 2017
Mesleki Matematik I, Associate Degree, 2016 - 2017
Matematik I, Undergraduate, 2016 - 2017
Termodinamik ve İstatistik Mekanik I Uygulaması, Undergraduate, 2013 - 2014

Advising Theses

Nutku F., Investigation on Nonlinear Optical Properties of Topological Semimetals, Doctorate, H.Alomeare(Student), 2024

Nutku F., Investigation of Light's Interaction with Two Dimensional Different Geometric Structures, Doctorate, S.MOSTAFAVI(Student), 2023

Nutku F., AN INVESTIGATION OF LIGHT PROPAGATION IN APERIODIC STRUCTURES, Postgraduate, S.Gökşin(Student), 2019

Scientific Refereeing

NEW JOURNAL OF PHYSICS, Journal Indexed in SCI-E, May 2023

JOURNAL OF PHYSICS B: ATOMIC, MOLECULAR AND OPTICAL PHYSICS, Journal Indexed in SCI-E, June 2022

OPTICS LETTERS, Journal Indexed in SCI-E, May 2022

BISMIDE MATERIALS AND NANOSTRUCTURES – Analysis and Design by Atomistic Theory, Scientific / Professional Book Published by Renowned Publishing Houses, January 2020

MODERN PHYSICS LETTERS A, Journal Indexed in SCI-E, October 2019

PHYSICA SCRIPTA, SCI Journal, September 2019

JOURNAL OF ALLOYS AND COMPOUNDS, National Scientific Refreed Journal, January 2018

CANADIAN JOURNAL OF PHYSICS, National Scientific Refreed Journal, November 2017

CANADIAN JOURNAL OF PHYSICS, Journal Indexed in SCI-E, November 2017

CANADIAN JOURNAL OF PHYSICS, Journal Indexed in SCI-E, November 2017

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, January 2017

ULUDAĞ ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, January 2017

Journal of Material Science, SCI Journal, November 2016

Turkish Journal of Physics, Other Indexed Journal, May 2015

Metrics

Publication: 51

Citation (WoS): 95

Citation (Scopus): 105

H-Index (WoS): 6

H-Index (Scopus): 6

Congress and Symposium Activities

6th International Summer School New Frontiers in Optical Technologies, Attendee, 12. Tampere University of Technology, Tampere, Finland, Finland, 2011

Cost Action MP 0805, Novel Gain Materials and Devices Based on III-V-N Compounds, Attendee, İzmir, Türkiye, Turkey, 2011

Türk Fizik Derneği 27. Uluslararası Fizik Kongresi, Attendee, İstanbul Üniversitesi, Türkiye, Turkey, 2010

5. Nano-elektronik Taşınım Sempozyumu, Attendee, İstanbul, Turkey, 2010

4. Nano-elektronik Taşınım Sempozyumu, Attendee, Akyaka/Muğla, Turkey, 2009

Summer School on Methods of Computer Simulations in Physics, Chemistry and Materials Science, Attendee, Koç Üniversitesi, İstanbul, Turkey, 2009

International Conference on Nanomaterials and Nanosystems (NanoMats 2009), Attendee, İstanbul Teknik Üniversitesi, İstanbul, Turkey, 2009

3. Nano-Elektronik Tařım Sempozyumu, Attendee, Feza Grsey Enstits, İstanbul, Turkey, 2009
Nanobilim ve Nanoteknoloji 2008 – NanoTR-4, Attendee, İstanbul Teknik niversitesi, İstanbul, Turkey, 2008
Fotonik Malzemeler ve Aygıtlar Lisansst Yaz Okulu, Attendee, Cumhuriyet niversitesi, Sivas, Turkey, 2008
11. Ulusal Sıvıhal Fizięi Sempozyumu, Attendee, İstanbul niversitesi Baltalimanı Tesisleri, İstanbul, Turkey, 2007
Nanobilim ve Nanoteknoloji 2007 – NanoTR-3, Attendee, Bilkent niversitesi, Ankara., Turkey, 2007
10. Ulusal Sıvıhal Fizięi Sempozyumu, Attendee, İstanbul niversitesi Baltalimanı Tesisleri, İstanbul, Turkey, 2006
International Conference on Superlattices, Nanostructures and Nanodevices ICSNN 2006, Attendee, Lfti Kirdar Kongre ve Sergi Sarayı, İstanbul, Turkey, 2006

Research Areas

Electrical and Electronics Engineering, MEMS, Optoelectronic Materials and Devices, Semiconducting Materials and Devices, Physics, Optics, Mathematical Methods in Physics, Quantum Mechanics, Fields Theory and Relativity, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Electronic transport in condensed matter, Natural Sciences, Engineering and Technology

Non Academic Experience

RND New Media Solutions
Bilnet Yazılım Ltd. Őti.