

## Res. Asst. PhD Fahrettin SARCAN

### Personal Information

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**Post Address:** İstanbul Üniversitesi Fen Fakültesi Fizik Bölümü Nano ve Optoelektronik Araştırmalar Laboratuvarları 34134 Vezneciler-İstanbul

### Education Information

Doctorate, İstanbul Üniversitesi, Fen Bilimleri Ens., Fizik/Katıhal Fiziği Programı, Turkey 2013 - 2018

Post Graduate, İstanbul Üniversitesi, Fen Bilimleri Ens., Fizik/Katıhal Fiziği Programı, Turkey 2010 - 2012

Under Graduate, İstanbul Üniversitesi, Faculty of Science, Fizik, Turkey 2006 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, 6. International Summer School, New Frontiers in Optical Technologies, Tampere University of Technology, 2011

Education Management and Planning, COST Action MP0805 İzmir Meeting and Training, COST Action MP0805, 2011

Education Management and Planning, Pedagojik Formasyon, İstanbul Üniversitesi Fen Fakültesi, 2010

Education Management and Planning, Güneş Gözelerinin Fiziği ve Teknolojisi Lisansüstü Yaz Okulu, Cumhuriyet Üniversitesi, 2010

### Dissertations

Doctorate, Rezonans Kavitesi ve İç Kazançlı GaInNAs-tabanlı IR Fotodetektör, İstanbul University, Fizik, Katıhal Fiziği, 2018

Post Graduate, Modülasyon katkılı GaInNas/GaAs kuantum kuyusu yapıların optik ve elektriksel özelliklerinin incelenmesi, İstanbul University, Fen Bilimleri, Fizik/Katıhal Fiziği Programı, 2012

### Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Material Characterization, Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Electronic transport in condensed matter, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Research Assistant PhD, University of York, Faculty of Science, Department of Physics, 2020 - Continues

Research Assistant PhD, İstanbul Üniversitesi, Faculty of Science, Department of Physics, 2014 - Continues

Research Assistant PhD, University Of York, Science, Physics, 2019 - 2019

Expert, İstanbul Üniversitesi, Bap, Dış Kaynaklı Projeler, 2013 - 2013

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Ultraviolet Photodetector Based on Mg<sub>0.67</sub>Ni<sub>0.33</sub>O Thin Film on SrTiO<sub>3</sub>**  
SARCAN F., Orchard S., Kuerbanjiang B., Skeparovski A., Lazarov V. K. , EROL A.  
PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, 2020 (Journal Indexed in SCI)
- **Dilute nitride resonant-cavity light emitting diode**  
Sarcan F., Wang Y., Krauss T. F. , Erucar T., Erol A.  
OPTICS AND LASER TECHNOLOGY, vol.122, 2020 (Journal Indexed in SCI)
- **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. , EROL A.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.33, no.114006, pp.1-6, 2018 (Journal Indexed in SSCI)
- **A study of electric transport in n- and p-type modulation-doped GaInNAs/GaAs quantum well structures under a high electric field**  
Sarcan F., Mutlu S., Cokduygulular E., Donmez Ö., Erol A., Puustinen J., Guina M.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.33, 2018 (Journal Indexed in SCI)
- **Temporal Response of Dilute Nitride Multi-Quantum-Well Vertical Cavity Enhanced Photodetector**  
Nordin M. S. , Sarcan F., Güneş M., Boland-Thoms A., Erol A., Vickers A. J.  
JOURNAL OF ELECTRONIC MATERIALS, vol.47, pp.655-661, 2018 (Journal Indexed in SCI)
- **Characterization of temperature dependent operation of a GaInNAs-based RCEPD designed for 1.3 μm**  
Sarcan F., Nordin M. S. , Kuruoglu F., Erol A., Vickers A. J.  
SUPERLATTICES AND MICROSTRUCTURES, vol.102, pp.27-34, 2017 (Journal Indexed in SCI)
- **Effect of thermal annealing and nitrogen composition on quantum transport in GaInNAs alloy based modulation doped quantum well structures**  
Nutku F., Donmez Ö., Cokduygulular E., Sarcan F., Kuruoglu F., Mutlu S., Yildirim S., Erol A.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.695, pp.404-409, 2017 (Journal Indexed in SCI)
- **Dilute nitride resonant cavity enhanced photodetector with internal gain for the lambda similar to 1.3 μm optical communications window**  
Balkan N., Erol A., Sarcan F., Al-Ghuraibawi L. F. F. , Nordin M. S.  
SUPERLATTICES AND MICROSTRUCTURES, vol.86, pp.467-471, 2015 (Journal Indexed in SCI)
- **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., Arıkan M. C.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.48, 2015 (Journal Indexed in SCI)
- **Negative and positive magnetoresistance in GaInNAs/GaAs modulation-doped quantum well structures**  
Nutku F., Donmez Ö., Sarcan F., Erol A., Puustinen J., Arıkan M. C. , Guina M.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.118, pp.823-829, 2015 (Journal Indexed in SCI)
- **Analytic modeling of temperature dependence of 2D carrier mobility in as-grown and annealed GaInNAs/GaAs quantum well structures**  
Donmez Ö., Sarcan F., Lisesivdin S. B. , Vaughan M. P. , Erol A., Gunes M., Arıkan M. C. , Puustinen J., Guina M.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.29, 2014 (Journal Indexed in SCI)
- **Bismuth-induced effects on optical, lattice vibrational, and structural properties of bulk GaAsBi alloys**  
Sarcan F., Donmez Ö., Kara K., Erol A., Akalin E., Arıkan M. C. , MAKHLOUFI H., ARNOULT A., FONTAINE C.  
NANOSCALE RESEARCH LETTERS, vol.9, 2014 (Journal Indexed in SCI)
- **Magnetotransport study on as-grown and annealed n- and p-type modulation-doped GaInNAs/GaAs strained quantum well structures**  
Donmez Ö., Sarcan F., Erol A., Gunes M., Arıkan M. C. , Puustinen J., Guina M.  
NANOSCALE RESEARCH LETTERS, vol.9, 2014 (Journal Indexed in SCI)
- **Influence of nitrogen on hole effective mass and hole mobility in p-type modulation doped GaInNAs/GaAs quantum well structures**  
Sarcan F., Donmez Ö., Erol A., Gunes M., Arıkan M. C. , Puustinen J., Guina M.  
APPLIED PHYSICS LETTERS, vol.103, 2013 (Journal Indexed in SCI)
- **Excitation energy-dependent nature of Raman scattering spectrum in GaInNAs/GaAs quantum well structures**

Erol A., Akalin E., Sarcan F., Donmez Ö., Akyuz S., Arıkan C. M. , Puustinen J., Guina M.

NANOSCALE RESEARCH LETTERS, vol.7, 2012 (Journal Indexed in SCI)

- **An analysis of Hall mobility in as-grown and annealed n- and p-type modulation-doped GaInNAs/GaAs quantum wells**

Sarcan F., Donmez Ö., Gunes M., Erol A., Arıkan M. C. , Puustinen J., Guina M.

NANOSCALE RESEARCH LETTERS, vol.7, 2012 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- **Dilute Nitride-based Resonant Cavity Light Emitter for Optical Communication**

SARCAN F., Wang Y., Krauss T., Eruçar T., EROL A.

42. PIERS Photonics & Electromagnetics Research Symposium, Xiamen, China, 17 - 20 Aralık 2019, pp.200

- **Vertical Cavity based Optoelectronics devices for 1.3 um wavelength applications**

SARCAN F., EROL A.

Intertanional Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 22 - 23 Kasım 2019, pp.1

- **GaInNAs-based Resonant Cavity Light Emitter and Phototector for Optical Communication at 1.3 um**

SARCAN F., EROL A., Wang Y., Eruçar T., Krauss T.

IV. Uluslararası Bilimsel ve Mesleki Çalışmalar Kongresi – Mühendislik, Ankara, Turkey, 7 - 10 Kasım 2019, pp.1

- **Investigation of the preventive effects of matrix-metalloproteinase inhibitors on dental erosion: In vitro study.**

KORUYUCU M., İlisulu C., SARCAN F., KURUOĞLU F., SEYMEN F.

11th EAPD Interim Seminar and Guideline Workshop, Crete, Greece, 3 - 04 May 2019, vol.1, pp.1

- **GaInNAs-based vertical cavity devices for 1.3 μm applications**

SARCAN F., EROL A.

International Eurasian Conference on Science, Engineering Technology, Ankara, Turkey, 22 - 23 Kasım 2018, pp.180

- **Characterization of GaInNAs-based IR Emitters**

SARCAN F., Eruçar T., EROL A.

Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 09 Eylül 2018, pp.267

- **ELECTRONIC TRANSPORT IN n-type MODULATION DOPED GaInAs/GaAs and GaInNAs/GaAs QUANTUM WELL STRUCTURES**

Rajhi A., Aydın M., ÇOKDUYGULULAR E., ÇETİNKAYA Ç., DÖNMEZ Ö., YILDIRIM S., SARCAN F., EROL A.

Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 09 Eylül 2018, pp.161

- **A Comparison Of Characteristics of Heterojunction pin Solar Cells Based On Dilute Bismide And Dilute Nitride Alloys**

Muhammedgulyev A., SARCAN F., Göksel Ö., KINACI B., DÖNMEZ Ö., ÇELEBİ Y. G. , EROL A.

International Conference On Condensed Matter And Materials science, Adana, Turkey, 11 - 15 Ekim 2017, pp.25

- **Characterization Of Heterojunction pin solar Cells Based On Dilute Bismide And Dilute Nitride**

Muhammedgulyev A., SARCAN F., KINACI B., DÖNMEZ Ö., EROL A.

8th International Workshop on Bismuth-Containing Semiconductors, Marburg, Germany, 23 Temmuz 2017 - 26 Temmuz 2016, pp.97

- **Comparative Study of Multi Quantum Well Photodetector Characterization Based on GaInNAs for 1um Wavelength**

Nordin M. S. , Mohmad A. R. , SARCAN F., EROL A., Boland-Thoms A., Vickers A. J.

UK Semiconductor, Sheffield, United Kingdom, 12 - 15 Temmuz 2017, pp.71

- **GaInNAs(sb) Multi Quantum well Vertical Cavity Enhanced Photodetector**

Nordin M. S. , SARCAN F., Evans M., EROL A., Boland-Thoms A., Vickers A. J.

Semiconductor And Integrated Opto- Electronics Conference, Cardiff, United Kingdom, 18 - 20 Nisan 2017, pp.103

- **Comparative Study of Multi Quantum Well GaInNAs Photodetector Characterisation**

Nordin M. S. , SARCAN F., EROL A., Boland-Thoms A., Vickers A. J.

The Physics Of Optoelectronic Materials And Devices, Essex, United Kingdom, 27 - 28 Mart 2017, pp.10

- **Design Issues and Characterization of a GaInNAs-based Resonance Cavity Enhanced Photodetector**  
SARCAN F., Nordin M. S. , KURUOĞLU F., EROL A., Vickers A. J.  
Nanophotonic and Micro/Nano Optic International Conference,, Paris, France, 7 - 09 Aralık 2016, pp.133
- **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.  
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 Eylül 2016, vol.32, pp.129
- **GaInNAs Based Resonance Cavity Enhanced Photodetector For Optical Communication Wavelength**  
SARCAN F., Nordin M. S. , EROL A., Vickers A. J.  
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 Eylül 2016, pp.106
- **Electronic transport properties of p-type GaInNAs/GaAs quantum well structures**  
MUTLU S., ÇOKDUYGULULAR E., ÇETİNKAYA Ç., SARCAN F., DÖNMEZ Ö., EROL A.  
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.125
- **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 Eylül 2016, pp.125
- **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 Ağustos 2015, vol.9, pp.161
- **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
- **Dilute Nitride Resonant Cavity Enhanced Photodetector With Internal Gain For Operation At 1.286 um**  
Balkan N., EROL A., SARCAN F., Nordin M. S.  
Spie Optics And Optoelectronics, Prague, Czech Republic, 13 - 16 Nisan 2015, pp.48
- **Analytic Modeling Of Temperature Dependence of 2D Carrier Mobility In As Grown And Annealed GaInNAs/GaAs Quantum Well Structures**  
DÖNMEZ Ö., SARCAN F., Vaughan M., EROL A., Güneş M., ARIKAN M. Ç. , Puustinen J., ARIKAN M. Ç.  
Türk Fizik Derneği 31. Uluslararası Fizik Kongresi,, Muğla, Turkey, 21 - 25 Temmuz 2014, pp.143
- **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
- **Investigation of GaBiAs Alloy Using Raman spectroscopy**  
AKALIN E., EROL A., SARCAN F., ARIKAN M. Ç. , Fontaine C.  
Novel Gain Materials And Devices Based On III-V-N/Bi Compounds, İstanbul, Turkey, 24 - 26 Eylül 2013, pp.47
- **Thermal Annealing And Nitrogen Induced Effects On Electronic Transport in n- and p-type Modulation Doped GaInNAs GaAs Quantum Well Structures**  
DÖNMEZ Ö., SARCAN F., EROL A., Güneş M., ARIKAN M. Ç. , Puustinen J., Guina M.  
Novel Gain Materials And Devices Based On III-V-N/Bi Compounds, İstanbul, Turkey, 24 - 26 Eylül 2013, pp.40
- **Optical Properties of GaAsBi Ternary Alloy**  
SARCAN F., EROL A., ARIKAN M. Ç. , Fontaine C.  
Novel Gain Materials And Devices Based On III-V-N/Bi Compounds,, İstanbul, Turkey, 24 - 26 Eylül 2013, pp.41
- **Effect of Alloy and Interface Roughness Scatterings On The Carrier Mobility in n- and p-type Modulation Doped GaInNAs/GaAs Quantum Well Structures**  
SARCAN F., DÖNMEZ Ö., Vaughan M. P. , EROL A., ARIKAN M. Ç. , Puustinen J., Guina M.  
17th European Molecular Beam Epitaxy Workshop, Levi, Finland, 10 - 13 Mart 2013, pp.246
- **Investigation Of Nitrogen Dependent In Plane Electron And Hole Effective Masses In GaInNAs/GaAs Quantum Well**  
SARCAN F., DÖNMEZ Ö., Vaughan M. P. , EROL A., ARIKAN M. Ç. , Puustinen J., Guina M.

17th European Molecular Beam Epitaxy Workshop, Levi, Finland, 10 - 13 Mart 2013, pp.300

- **An Analysis Of Scattering Mechanisms In As Grown And Annealed N And P Type Modulation Doped Gainnas Gaas Quantum Wells**

SARCAN F., DÖNMEZ Ö., Güneş M., EROL A., ARIKAN M. Ç. , Puustinen J., Guina M.

Türk Fizik Derneği 29. Uluslararası Fizik Kongresi,, Muğla, Turkey, 5 - 08 Eylül 2012, pp.139

- **A Comprehensive Study Of Optical Characterization of n- and p-type As Grown And Annealed Modulation Doped Gaas Gainnas Qw Structures**

DÖNMEZ Ö., SARCAN F., EROL A., ARIKAN M. Ç. , Ungan F., KAsapoğlu E., Sarı H., Puustinen J., Guina M.

International Conference On Superlattices, Nanostructures and Nanodevices, Dresden, Germany, 22 - 27 Temmuz 2012

- **An Analysis of Hall Mobility In As Grown And Annealed n- and p-type Modulation Doped GainNAs/GaAs quantum Wells**

SARCAN F., DÖNMEZ Ö., Güneş M., EROL A., ARIKAN M. Ç. , Puustinen J., Guina M.

International Conference On Superlattices, Nanostructures and Nanodevices, Dresden, Germany, 22 - 27 Temmuz 2012, pp.359

- **A Comparative Study On Electronic Transport Properties of n- and p-type Modulation Doped Gainnas Gaas And Dilute Nitride GainNAs/GaAs Quantum Well**

Güneş M., DÖNMEZ Ö., SARCAN F., EROL A., ARIKAN M. Ç. , Puustinen J., Guina M.

European Materials Research Society, Strazburg, France, 14 - 18 Mayıs 2012, pp.16

- **Effect of Thermal Annealing On Optical And Electronic Transport Properties in n- and p-type Modulation Doped GainNAs/GaAs Quantum Wells**

SARCAN F., DÖNMEZ Ö., Güneş M., EROL A., ARIKAN M. Ç. , Puustinen J., Guina M.

European Materials Research Society,, Paris, France, 14 - 18 Mayıs 2012, pp.14

- **Electronic Transport Properties Of The GainNAs/GaAs p-type As Grown And Annealed Modulation Doped Quantum Well Structures,**

EROL A., SARCAN F., Güneş M., ARIKAN M. Ç. , Puustinen J., Guina M.

13th International Conference On Transparent Optical Networks, Stthocholm, Stthocholm, Sweden, 26 Temmuz - 30 Haziran 2011, pp.19

## Supported Projects

SARCAN F., Other Supported Projects, Enhancing light emission from two-dimensional material/silicon devices, 2019 - Continues

KORUYUCU M., SEYMEN F., SARCAN F., İLİSULU S. C. , KURUOĞLU F., Project Supported by Higher Education Institutions, Matrixmetalloproteinaz (MMP) inhibitörlerinin dentin erozyonu ve abrazyonu üzerine koruyucu etkisinin invitro olarak değerlendirilmesi, 2017 - 2019

EROL A., 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

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

EROL A., SARCAN F., Project Supported by Higher Education Institutions, Rezonans kaviteli ve iç kazançlı GainNAs-tabanlı IR fotodedektör, 2015 - 2018

EROL A., SARCAN F., ULUTAŞ D., AKALIN E., BALKAN N., Project Supported by Higher Education Institutions, Optik haberleşme için dikey kaviteli p-i-n dedektör, 2015 - 2018

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

EROL A., SARCAN F., BALKAN N., Project Supported by Higher Education Institutions, 1.3 µm'de çalışan rezonans kaviteli ve iç kazançlı GainNAs-tabanlı fotodedektör, 2015 - 2017

TUBITAK Project, 1.3 um'de Çalışan Rezonans Kaviteli ve İç Kazançlı Gainnas-Tabanlı Fotodedektör", TÜBİTAK Projesi, 2014 - 2017

YILDIRIM S., DÖNMEZ Ö., EROL A., YAKUT Ş., SARCAN F., ULUTAŞ D., AKALIN E., Project Supported by Higher Education Institutions, Uyumsuz Yarıiletken Alaşımların Optoelektronik Davranışlarının İncelenmesi., 2014 - 2016  
EROL A., SARCAN F., DÖNMEZ Ö., Project Supported by Higher Education Institutions, GaAsBi alaşımlarının optik ve elektronik transport özelliklerine büyüme şartları ve Bizmut miktarının etkilerinin incelenmesi, 2013 - 2016  
Erol A., Sarcan F., Arıkan M. Ç. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, İleri Litografik Araştırmalar Laboratuvarları, 2010 - 2013  
EROL A., SARCAN F., Project Supported by Higher Education Institutions, Modülasyon Katkılı GaInNAs/GaAs Kuantum Kuyusu Yapıların Optik ve Elektriksel Özelliklerinin İncelenmesi, 2012 - 2012

## Patent

Sarcan F., Erol A., Highly Selective Resonant Cavity Enhanced Photodetector, Patent, CHAPTER G Physics, Initial Registration, 2017

## Scientific Refereeing

SEMICONDUCTOR SCIENCE AND TECHNOLOGY, SCI Journal, June 2020  
JOURNAL OF PHYSICS-CONDENSED MATTER, SCI Journal, June 2020

## Scientific Research / Working Group Memberships

Photonics Group, University of York, United Kingdom, <https://www.york.ac.uk/physics/photonics/members/>, 2019 - Continues  
Nano-Optoelektronik Araştırma Grubu, İSTANBUL ÜNİVERSİTESİ, Turkey, <http://nano-optoelectronics.org>, 2010 - Continues

## Invited Congress and Symposium Activities

42, Photonics & Electromagnetics Research Symposium, Attendee, Xiamen, China, 2019  
Nanophotonic and Micro/Nano Optic International Conference, Attendee, Paris, France, 2016  
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2016  
Türk Fizik Derneği 31.Uluslararası Fizik Kongresi,, Attendee, Turkey, 2014  
Novel Gain Materials And Devices Based On III-V-N/Bi Compounds,, Attendee, İstanbul, Turkey, 2013  
Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2012  
International Conference On Superlattices, Nanostructures and Nanodevices, Attendee, Dresden, Germany, 2012  
European Materials Research Society, Attendee, Strasbourg, France, 2012  
"New Frontiers in Optical Technologies", 6th International Summer School,, Attendee, Tampere, Finland, 2011  
13th International Conference On Transparent Optical Networks, Attendee, Stockholm, Sweden, 2011  
"Theoretical Techniques in Semiconductor Research" COST Action MP0805 Training School, Attendee, İstanbul, Turkey, 2011

## Citations

Total Citations (WOS):74  
h-index (WOS):6

## Scholarships

2219 Yurt Dışı Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2020 - Continues

