

## **Curriculum Vitae**

Tülin ERUÇAR

## **Contact Information**

Faculty of Science, Physics Department Istanbul University, Vezneciler,  
Fatih, 34134 Istanbul, TURKEY

Phone: +90 212 440 00 00 (Ext. 15428)

erucart@gmail.com | <http://nano-optoelectronics.org>



## **Degrees**

2017- PhD. Physics, Istanbul University, Istanbul, Turkey

2013-2017 MSc. Physics, Istanbul University, Istanbul, Turkey

Thesis Entitled “Bizmut İçeren Iıı-V Grubu Uyumsuz Yarıiletken Alaşımların Yapısal,  
Optik Ve Elektriksel Özelliklerinin İncelenmesi” [Supervised by Prof. Ayşe Erol]

2013-2014 Pedagogical Formation Certificate Programme, Istanbul University, Istanbul Turkey

2009-2013 BSc. Physics, Istanbul University, Istanbul Turkey

## **Scholarly Activities**

32nd International Physics Congress by Turkish Physical Society, 2015

Member of Local Organizing Committee, COST Action MP0805 "Novel Gain Materials and  
Devices Based on III-V-N/Bi Compounds", September 2013

30th International Physics Congress by Turkish Physical Society, 2013

28th International Physics Congress by Turkish Physical Society, 2013

1st, 2nd, 4th Physic Workshop , Istanbul University, 2011, 2012, 2014

## **Intern**

Scientific and Technological Research Council of Turkey (TUBITAK) , National Metrology  
Institute, Mass Laboratory, 2012 2012

## **Research Areas**

Solid State, Semiconductors, Optoelectronic Devices, Nano technology and Nano

Fabrication, Characterizations

## **Membership of Professional Society**

Turkish Physics Society

## **Awards**

Higher Education Credit and Dormitories Institution, Prime Ministry Scholarship, 2010-2013

100/2000 The Council of Higher Education (YÖK) PhD Scholarships, Eylül 2017

## **Computer skills**

Ansys, Matlab, Mathematica, MS Office programs, Web design (HTML Language, CSS), Origin, Fortran, Python, Dreamweaver, Photoshop

## **Research Projects**

Investigation of Structural, Optical and Electronic Properties of Bismuth Containing III-V Group Highly Mismatched Semiconductor Alloys (Researcher), Istanbul University, (Thesis Project), No:20699, 2016

## **Presentations (Oral and Poster)**

Erucar T., Kara K., Donmez O., Erol A., Arnoult A., Fontaine C., 2017, "*Influence of chemical process on structural and optical properties of as-grown and thermal annealed GaAsBi alloys*", 8th International Workshop on Bismuth-Containing Semiconductors, 23-26 July 2017, Margburg, Germany, Poster Presentation

Erucar T., Donmez O., Kara K., Kuruoglu F., Erol A., F.O., 2016, "*Structural and Optical Investigation of Annealing Effects on GaBiAs Alloys*", (September), 32nd Turkish Physics Society 32nd International Physics Congress, Turkey, Oral Presentation

Erucar T., Kaya E., Sarcan F., Erol A., Arıkan M., Fontaine C., "*Optical Characterization Of GaBiAs Alloys*", Turkish Physical Society, 30th International Physics Congress, 2013, Poster Presentation.

## **Publications**

Erucar, T., Nutku, F., Donmez, O., Erol, A., 2017, "*Electronic bandstructure of semiconductor dilute bismide structures*", American Institute of Physics, Conference Proceedings, 815, 050004 2017