

## Assoc. Prof. TUNAY TANSEL

### Personal Information

Office Phone: [+90 9312297](tel:+909312297) Extension: 6875

Office Phone: [+90 9312297](tel:+909312297) Extension: 6880

Fax Phone: [+90 312 297 6880](tel:+903122976880)

Email: [tunaytansel@hacettepe.edu.tr](mailto:tunaytansel@hacettepe.edu.tr)

Web: <http://www.nbe.hacettepe.edu.tr/english/people.shtml>

Address: Hacettepe Üniversitesi Nükleer Bilimler Enstitüsü 06800 Beytepe / Ankara

### Education Information

Doctorate, Christian-Albrechts-Universitaet Zu Kiel, Fiziko-Kimya / Düzey Bilim, Fizik, Germany 2002 - 2006

Postgraduate, Johann Wolfgang Goethe-Universitaet Frankfurt Am Main, Nükleer Fizik, Fizik, Germany 1996 - 1999

Undergraduate, Johann Wolfgang Goethe-Universitaet Frankfurt Am Main, Fizik Bölümü, Fizik, Germany 1991 - 1995

### Foreign Languages

German, C1 Advanced

English, B2 Upper Intermediate

### Dissertations

Doctorate, Elektrolitler ve Elektrotlar arasındaki elektrokimyasal arayüzdeki adsorbat difüzyon Video-STM

Araştırmaları, Christian-Albrechts-Universitaet Zu Kiel, Fizik, 2006

Postgraduate, H<sup>+</sup>/He<sup>+</sup> transmisyon iyon kanalize ve RBS metodu ile ultra-ince kristal Silikon, Johann Wolfgang Goethe-Universitaet Frankfurt Am Main, Fizik, 1999

### Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, 2018 - Continues

Assistant Professor, Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, 2013 - 2018

### Academic and Administrative Experience

Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Fotonik Anabilim Dalı (Disiplinlerarası), 2016 - Continues

Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Fotonik Anabilim Dalı (Disiplinlerarası), 2013 - Continues

## Courses

Yüzey Biliminden Nanoyapılara, Undergraduate, 2016 - 2017, 2017 - 2018  
FROM SURFACE SCIENCE TO NANOTECHNOLOGY, Doctorate, 2016 - 2017

## Advising Theses

TANSEL T., Aşırı selenyum katkılı siyah silisyum görünür ve kızılötesi dedektörlerin üretimi ve karakterizasyonu, Postgraduate, O.AYDIN(Student), 2017

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

- I. **The detailed analysis of wavefunction overlaps for InAs/AlSb/GaSb based N-structure type-II SL pin photodetectors**  
Hostut M., TANSEL T., Kilic A., AKIN T., Ergun Y.  
PHYSICA SCRIPTA, vol.94, no.7, 2019 (Journal Indexed in SCI)
- II. **The investigation of quantum efficiency constituents of InAs/AlSb/GaSb based N structure type-II SL photodetectors with InAlAs interface**  
Kilic A., TANSEL T., Hostut M., Elagoz S., Ergun Y.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.33, no.9, 2018 (Journal Indexed in SCI)
- III. **Large hh-lh splitting energy for InAs/AlSb/GaSb based N-structure photodetectors**  
Akel K., Hostut M., TANSEL T., Ergun Y.  
JOURNAL OF APPLIED PHYSICS, vol.123, no.2, 2018 (Journal Indexed in SCI)
- IV. **Electrical and optical performances with extracted minority carrier lifetimes of InAs/GaSb SL photodetector operating in the mid wavelength infrared range**  
TANSEL T., Hostut M., Ergun Y.  
SUPERLATTICES AND MICROSTRUCTURES, vol.111, pp.1211-1216, 2017 (Journal Indexed in SCI)
- V. **Electrical performance of InAs/AlSb/GaSb superlattice photodetectors**  
TANSEL T., Hostut M., Elagoz S., Kilic A., Ergun Y., Aydinli A.  
SUPERLATTICES AND MICROSTRUCTURES, vol.91, pp.1-7, 2016 (Journal Indexed in SCI)
- VI. **N-structure based on InAs/AlSb/GaSb superlattice photodetectors**  
HOŞTUT M., Alyoruk M., TANSEL T., Kilic A., TURAN R., Aydinli A., Ergun Y.  
SUPERLATTICES AND MICROSTRUCTURES, vol.79, pp.116-122, 2015 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Gibbs Free Energy Assisted Passivation Layers**  
Salihoglu O., TANSEL T., Hostut M., Ergun Y., Aydinli A.  
42 Conference on Infrared Technology and Applications XLII, Massachusetts, United States Of America, 18 - 21 April 2016, vol.9819
- II. **ELECTRICAL AND OPTICAL PERFORMANCE OF INAS / ALSB / GASB SUPERLATTICE PHOTODETECTOR**  
HOŞTUT M., TANSEL T., ERGÜN Y., KILIÇ A., AYDINLI A.  
7th International Conference on Nanomaterials - Research and Application, Brno, Czech Republic, 14 - 16 October 2015, pp.255-259

## Supported Projects

TANSEL T., Project Supported by Higher Education Institutions, Geniş bant Kızılötesi Fotodetektörün lazer yardımı ile doğrudan Mesa Yapımı ve iletken metal kontak uygulaması, 2016 - 2017

TANSEL T., Project Supported by Higher Education Institutions, SiyahSilisyum tabanlı Fotoalgılayıcı Sistemlerinin Geliştirilmesi, 2016 - 2017

TANSEL T., Project Supported by Higher Education Institutions, Kalkojen Grubu Elementlerle Katkılanmış Silisyum Tabanlı Kızılötesi Algılayıcılar, 2013 - 2017

## **Citations**

Total Citations (WOS):29

h-index (WOS):3