

## Asst. Prof. EVRİN TUĞAY

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: KBC-1349-2024

ScopusID: 55308092600

Yoksis Researcher ID: 55642

### Education Information

Doctorate, Middle East Technical University, Fen Bil. Ens., Fizik, Turkey 2003 - 2010

Postgraduate, Tabriz University, Science, Physics, Iran 1997 - 2000

Undergraduate, Tabriz University, Science, Physics, Iran 1992 - 1996

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, SI AND SI1-XGEX NANOCRYSTALS: SYNTHESIS, STRUCTURAL CHARACTERIZATION, AND SIMULTANEOUS OBSERVATION OF QUANTUM CONFINED AND INTERFACE RELATED PHOTOLUMINESCENCE, Middle East Technical University, Fen Bilimler Enstitüsü, Fizik, 2010

### Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, MAKİNE MÜHENDİSLİĞİ, 2018 - Continues

Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2018  
Expert, Middle East Technical University, Fen Bilimler Enstitüsü, Fizik, 2010 - 2012

## Academic and Administrative Experience

Mevlana Exchange Program Coordinator, Recep Tayyip Erdogan University, Makine Bölümü, 2013 - 2020

Erasmus Coordinator, Recep Tayyip Erdogan University, Makine Bölümü, 2013 - 2020

Farabi Coordinator, Recep Tayyip Erdogan University, Makine Bölümü, 2013 - 2020

## Courses

Mukavemet, Undergraduate, 2017 - 2018

Diferansiyel Denklemler, Undergraduate, 2017 - 2018

Nanobilim ve Nanoteknolojinin Temelleri, Postgraduate, 2016 - 2017

Statik, Undergraduate, 2016 - 2017

Nanoüretim Teknikleri , Postgraduate, 2016 - 2017

Dinamik 1.G, Undergraduate, 2017 - 2018

Seminer, Postgraduate, 2016 - 2017

Bilim Tarihi, Undergraduate, 2016 - 2017

Nanokarakterizasyon Teknikleri, Postgraduate, 2015 - 2016

Nanomalzemeler, Postgraduate, 2015 - 2016

Aktif Güneş Enerjisi Sistemleri, Postgraduate, 2014 - 2015

Matematiksel İktisat I, Undergraduate, 2015 - 2016

Malzemelerin yapısı ve Kristalografisi, Postgraduate, 2014 - 2015

Mühendislik Matematiği, Undergraduate, 2012 - 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optical properties of GaS crystals: Combined study of temperature-dependent band gap energy and oscillator parameters**  
Isik M., TUĞAY E., Gasanly N.  
INDIAN JOURNAL OF PURE & APPLIED PHYSICS, vol.55, no.8, pp.583-588, 2017 (SCI-Expanded)
- II. **Investigation of Photoluminescence Mechanisms from SiO<sub>2</sub>/Si:SiO<sub>2</sub>/SiO<sub>2</sub> Structures in Weak Quantum Confined Regime by Deconvolution of Photoluminescence Spectra**  
TUĞAY E., TURAN R.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.16, no.4, pp.4052-4064, 2016 (SCI-Expanded)
- III. **Temperature-dependent optical properties of GaSe layered single crystals**  
Isik M., Tugay E., Gasanly N. M.  
PHILOSOPHICAL MAGAZINE, vol.96, no.24, pp.2564-2573, 2016 (SCI-Expanded)
- IV. **Temperature-tuned band gap energy and oscillator parameters of GaS<sub>0.5</sub>Se<sub>0.5</sub> single crystals**  
Isik M., Tugay E., Gasanly N.  
OPTIK, vol.127, no.20, pp.8301-8305, 2016 (SCI-Expanded)
- V. **Influence of Ge content and annealing conditions on the PL properties of nc-Si<sub>1-x</sub>Gex embedded in SiO<sub>2</sub> matrix in weak quantum confined regime**  
Tugay E., İlday S., TURAN R., FINSTAD T. G.  
JOURNAL OF LUMINESCENCE, vol.155, pp.170-179, 2014 (SCI-Expanded)
- VI. **Surface morphology and depth profile study of Cd<sub>1-x</sub>ZnxTe alloy nanostructures**  
Yilmaz E., Tugay E., Aktag A., YILDIZ İ., PARLAK M., TURAN R.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.545, pp.90-98, 2012 (SCI-Expanded)
- VII. **Influence of gamma irradiation on the C-V characteristics of the Al/SiNx/Si MIS capacitors**  
Tugay E., Yilmaz E., TURAN R.  
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A, vol.30, no.4, 2012 (SCI-Expanded)

- VIII. **Ge nanocrystals embedded in SiO<sub>2</sub> in MOS based radiation sensors**  
Aktag A., Yilmaz E., Mogaddam N. A. P., Aygun G., Cantas A., TURAN R.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.268, no.22, pp.3417-3420, 2010 (SCI-Expanded)
- IX. **Phase separation in SiGe nanocrystals embedded in SiO<sub>2</sub> matrix during high temperature annealing**  
Mogaddam N. A. P., Alagoz A. S., YERCI S., TURAN R., FOSS S., FINSTAD T. G.  
JOURNAL OF APPLIED PHYSICS, vol.104, no.12, 2008 (SCI-Expanded)
- X. **Thermally stimulated current observation of trapping centers in an undoped Tl<sub>4</sub>Ga<sub>3</sub>InSe<sub>8</sub> layered single crystal**  
GASANLY N. M., Mogaddam N. A. P., OZKAN H.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.41, no.11, pp.1100-1105, 2006 (SCI-Expanded)
- XI. **Thermally stimulated currents in layered semiconductor Tl<sub>4</sub>In<sub>3</sub>Ga<sub>8</sub>S<sub>8</sub>**  
Gasanly N. M., Özkan H., Mogaddam N. A. P.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.21, no.9, pp.1250-1255, 2006 (SCI-Expanded)
- XII. **Determination of trapping center parameters of Tl<sub>2</sub>InGa<sub>4</sub>S<sub>4</sub>-layered crystals by thermally stimulated current measurements**  
Mogaddam N. A. P., Yuksek N. S., Gasanly N. M., Özkan H.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.417, pp.23-28, 2006 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Improvement of SiO<sub>2</sub> Ge SiO<sub>2</sub> Si nanostructures by low dose radiation**  
Shishiyanu S. T., Shishiyanu T., YILMAZ E., TURAN R., AP MOGADDAM N.  
ICNBME, vol.42, no.38, 2011 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Biosynthesis of Silver Nanoparticles by Bacillus pasteurii ovit Bacterial Strain**  
Tuğay E., Bozdeveci A., Alpay Karaoğlu Ş., Üreyen Esertaş Ü. Z., Uzunalioglu E.  
10th Nanoscience And Nanotechnology Conference, İstanbul, Turkey, 17 - 21 June 2014
- II. **Biosynthesis of Silver Nanoparticles by Bacillus pasteurii ovit Bacterial Strain**  
TUĞAY E., ŞİRİN M., ALPAY KARAOĞLU Ş.  
10th Nanoscience and Nanotechnology Conference (NanoTR-10), İstanbul, Turkey, 17 - 21 June 2014, pp.106
- III. **Influence of deposition parameteres on the structural and optical properties of the SiN<sub>x</sub> films prepared by PECVD method**  
TUĞAY E., Aydınlı A., TURAN R.  
9th Nanoscience and Nanotechnology Conference (NanoTR-9), Erzurum, Turkey, 24 - 28 June 2013, pp.111
- IV. **Influence of gamma irradiation on silicon nitride mis capacitors and radiation hardness**  
Yilmaz E., TUĞAY E., Aktaga A., Turanc R.  
1st International Conference on Radiation and Dosimetry in Various Fields of Research, RAD 2012, Nis, Serbia, 25 - 27 April 2012, vol.2012-April, pp.23-26

### Metrics

Publication: 17

Citation (WoS): 111

Citation (Scopus): 118

H-Index (WoS): 6

H-Index (Scopus): 6

### **Congress and Symposium Activities**

NANOTR10, Attendee, İstanbul, Turkey, 2014

RAD2012, Attendee, Nish, Serbia And Montenegro, 2012

MRS Spring Meeting, Attendee, California, United States Of America, 2012

1st International Workshop on SEMiconductor NANOstructure (SEMINANO), Attendee, Köln, Germany, 2007

### **Scholarships**

Elmas Membranlı Tedavi Amaçlı Mikroüretilmiş Kapasitif Ultrason Çevirgeçler, TÜBİTAK, 2009 - Continues