

Asst. Prof. EVRİN TUĞAY

Personal Information

Office Phone: [+90 464 223 7518](tel:+904642237518) Extension: 1246

Fax Phone: [+90 464 223 7514](tel:+904642237514)

Email: evrin.tugay@erdogan.edu.tr

Web: <https://avesis.erdogan.edu.tr/evrin.tugay>

Address: Fener, RTEÜ, 53100

Education Information

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

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, Mühendislik Ve Mimarlık Fakültesi, Makine Mühendisliği, 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

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

- 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 (Journal Indexed in SCI)
- II. **Investigation of Photoluminescence Mechanisms from SiO₂/Si:SiO₂/SiO₂ 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- IV. **Temperature-tuned band gap energy and oscillator parameters of GaS_{0.5}Se_{0.5} single crystals**
Isik M., Tugay E., Gasanly N.
OPTIK, vol.127, no.20, pp.8301-8305, 2016 (Journal Indexed in SCI)
- V. **Influence of Ge content and annealing conditions on the PL properties of nc-Si_{1-x}Ge_x embedded in SiO₂ matrix in weak quantum confined regime**
Tugay E., İlday S., TURAN R., FINSTAD T. G.
JOURNAL OF LUMINESCENCE, vol.155, pp.170-179, 2014 (Journal Indexed in SCI)
- VI. **Surface morphology and depth profile study of Cd_{1-x}Zn_xTe 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 (Journal Indexed in SCI)
- VII. **Influence of gamma irradiation on the C-V characteristics of the Al/SiN_x/Si MIS capacitors**
Tugay E., Yilmaz E., TURAN R.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A, vol.30, no.4, 2012 (Journal Indexed in SCI)
- VIII. **Ge nanocrystals embedded in SiO₂ 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 (Journal Indexed in SCI)
- IX. **Phase separation in SiGe nanocrystals embedded in SiO₂ 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 (Journal Indexed in SCI)
- X. **Thermally stimulated current observation of trapping centers in an undoped Tl₄Ga₃InSe₈ layered**

single crystal

GASANLY N. M. , Mogaddam N. A. P. , OZKAN H.

CRYSTAL RESEARCH AND TECHNOLOGY, vol.41, no.11, pp.1100-1105, 2006 (Journal Indexed in SCI)

XI. Thermally stimulated currents in layered semiconductor Tl₄In₃GaS₈

Gasanyly N. M. , Özkan H., Mogaddam N. A. P.

SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.21, no.9, pp.1250-1255, 2006 (Journal Indexed in SCI)

XII. Determination of trapping center parameters of Tl₂InGaS₄-layered crystals by thermally stimulated current measurements

Mogaddam N. A. P. , Yuksek N. S. , Gasanyly N. M. , Özkan H.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.417, pp.23-28, 2006 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Improvement of SiO₂ Ge SiO₂ Si nanostructures by low dose radiation

Shishiyanu S. T. , Shishiyanu T., YILMAZ E., TURAN R., AP MOGADDAM N.

ICNBME, vol.42, no.38, 2011 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

I. 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

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. 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

IV. Influence of deposition parameteres on the structural and optical properties of the SiN_x 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

V. INFLUENCE OF GAMMA IRRADIATION ON SILICON NITRIDE MIS CAPACITORS AND RADIATION HARDNESS

YILMAZ E., TUĞAY E., AKTAG A., TURAN R.

RAD2012, Nis, Serbia And Montenegro, 25 - 27 April 2012, pp.18

Supported Projects

TUĞAY E., Other Supported Projects, RainbowEnergy, 2011 - 2011

TUĞAY E., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Center for Solar Energy Research and Application (GÜNAM), 2009 - 2011

TUĞAY E., TUBITAK Project, Elmas Membranlı Tedavi Amaçlı Mikroüretmiş Kapasitif Ultrason Çevirgeçler, 2007 - 2010

TUĞAY E., TUBITAK Project, Yarı-iletgen nanokristaller tabanlı malzemelerde üretim işleminin karakterizasyonu ve temel bilgilerin pekiştirilmesi, 2007 - 2010

TUBITAK Project, Süper İletkenlere Fe ve Nb Nano Tanecik Katkılama Etkileri, 2006 - 2008

TUĞAY E., EU Framework Program Project, METU-CENTER (MIDDLE EAST TECHNICAL UNIVERSITY CENTRAL RESEARCH LABORATORY IN NANOTECHNOLOGY , NEW MATERIALS, NEW PROCESSES AND BIOTECHNOLOGY), 2005 -

2008

TUĞAY E., EU Framework Program Project, SEMINANO (PHYSICS AND TECHNOLOGY OF ELEMENTAL, ALLOY AND COMPOUND SEMICONDUCTOR NANOCRYSTALS: MATERIALS AND DEVICES), 2004 - 2007

Edit 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

Citations

Total Citations (WOS):111

h-index (WOS):6

Scholarships

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