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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 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 (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_{0.5}Se_{0.5} 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_{1-x}Gex embedded in SiO₂ matrix in weak quantum confined regime**
Tugay E., Ilday 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_{1-x}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 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XI. **Thermally stimulated currents in layered semiconductor Tl₄In₃GaS₈**
 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 Tl₂InGaS₄-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 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 (Peer-Reviewed Journal)

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. **Influence of deposition parameters 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
- III. **Influence of gamma irradiation on silicon nitride mis capacitors and radiation hardness**
 Yilmaz E., TUĞAY E., Aktag 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: 16
 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, TUBITAK, 2009 - Continues