

Curriculum vitae

Assistant Professor Barış KINACI

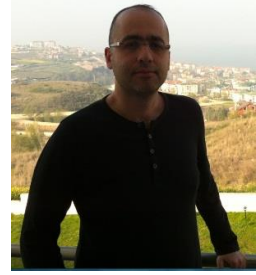
Contact information

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

Phone: +90 212 455 57 00 [Ext. 15421]

baris.kinaci@istanbul.edu.tr | kinacib@yahoo.com

<http://nano-optoelectronics.org>



Degrees

2009-2013 PhD. Physics, Gazi University, Ankara, Turkey

Thesis Entitled “*Epitaxial growth and characterization of III-V group solar cell structures*”

[Supervised by Prof. Süleyman ÖZÇELİK]

2006-2009 MSc. Physics, Gazi University, Ankara, Turkey;

Thesis Entitled “*The growth of $In_xGa_{1-x}As/GaAs$ multi quantum well structure with MBE technique: The investigation of the structural, optical and electrical properties*”

[Supervised by Associate Prof. Mehmet BAHAT]

2002-2006 BSc. Physics, Gazi University, Ankara, Turkey

Employment

2014 – Assistant Professor, Department of Physics, Istanbul University

Research Areas

The growth and structural, optical, electrical characterizations of III-V group semiconductors, Design, growth and characterization of solar cell structure, Design of concentrated photovoltaic (CPV) system

Computer skills

MS Office programs, Sigmaplot, Origin

Publications

SCI Papers

Kinacı B., Özen Y., Asar T., Çetin S.Ş., Memmedli T., Kasap M., Özçelik S., “Study on growth and characterizations of $Ga_xIn_{1-x}P/GaAs$ solar cell structure”, Journal of Materials Science: Materials in Electronics., 24, 3269, 2013

Kınacı B., Özçelik S., "Temperature dependent capacitance–voltage and conductance–voltage characteristics of Au/TiO₂(rutile)/n–Si MIS structure at 1 MHz", *Journal of Electronic Materials*, 42, 1108, 2013

Kınacı B., Özen Y., Kızılkaya K., Asar T., Çetin S.Ş., Boyalı E., Öztürk M.K., Memmedli T., Özçelik S., " Effect of alloy composition on structural, optical and morphological properties and electrical characteristics of Ga_xIn_{1-x}P/GaAs structure", *Journal of Materials Science: Materials in Electronics*, 24, 1375, 2013

Kınacı B., Asar T., Çetin S.Ş., Özen Y., Kızılkaya K., "Analysis of series resistance and interface states of Au/ZnO/TiO₂/n–Si and (Ni/Au)/ZnO/TiO₂/n–Si Schottky diodes using current–voltage characteristics", *Journal of Optoelectronics and Advanced Materials*, 14, 959, 2012

Kınacı B., Çetin S.Ş., Bengi A., Özçelik S., " The temperature dependent analysis of Au/TiO₂(Rutile)/n–Si (MIS) structure using current–voltage–temperature (*I–V–T*) characteristics ", *Materials Science in Semiconductor Processing*, 15, 531, 2012

Kınacı B., Çörekçi S., Kızılkaya K., Özçelik S., " Current–voltage (*I–V*) characteristics of Au/InGaAs/n–GaAs Schottky barrier diodes ", *Optoelectronics and Advanced Materials-Rapid Communications* 6, 327, 2012

Taşçioğlu İ., Aydemir U., Altındal Ş. Kınacı B., Özçelik S., " Analysis of the forward and reverse bias *I–V* characteristics on Au/PVA:Zn/n–Si Schottky barrier diodes in the wide temperature range ", *Journal of Applied Physics*, 109, 054502, 2011

Kınacı B., Asar T., Özen Y., Özçelik S., " The analysis of Au/TiO₂/n–Si Schottky barrier diode at high temperatures using *I–V* characteristics ", *Optoelectronics and Advanced Materials-Rapid Communications* 5, 434, 2011.

Kınacı B., Bengi A., Mammadov T., Özçelik S., " The structural and optical properties of InGaAs/GaAs MQW ", *Journal of Optoelectronics and Advanced Materials* 13, 505, 2011

Kars İ., Çetin S.Ş., Kınacı B., Sarıkavak B., Bengi A., Altuntaş H., Öztürk M.K., Özçelik S., " Influence of thermal annealing on the structure and optical properties of DC magnetron sputtered titanium dioxide thin films ", *Surface and Interface Analysis* 42, 1247, 2010.

Çetin S.Ş., Kınacı B., Asar T., Kars İ., Öztürk M.K., Mammadov S.T., Özçelik S., " Effect of Different P/As Ratio on the Optical and Structural Properties of GaAs_{1-x}P_x/GaAs ", *Surface and Interface Analysis*, 42, 1252, 2010