

Curriculum vitae

Caglar Cetinkaya, Research Assistant

Contact information

Istanbul University, Faculty of Science, Physics Department

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Degrees

2016 - ---- PhD, Physics, Istanbul University, Istanbul, Turkey

2014- 2016 MSc. Physics, Istanbul University, Istanbul, Turkey

Thesis Entitled “Investigation of Light Emission Based on Gunn Effect In III-V Group Alloy Semiconductor”, [Supervised by Prof. Ayşe Erol]

2010-2013 BSc. Physics, Istanbul University, Istanbul Turkey

2008-2010 BSc. Physics, Karadeniz Technical University, Trabzon, Turkey

Employment

2017- Research Assistant, Department of Physics, Istanbul University

Scholarly activities

International Conference on Condensed Matter and Material Sciences, 2017

33rd International Physics Congress by Turkish Physical Society, 2017

Nanophotonics and Micro/Nano Optics International Conference –NANOP 2016, 2016

32nd International Physics Congress by Turkish Physical Society, 2016

9th International Physics Conference of the Balkan Physical Union (BPU-9), 2015

31th International Physics Congress by Turkish Physical Society, 2014

Member of Local Organizing Committee, COST Action MP0805 "Novel Gain Materials and Devices Based on III-V-N/Bi Compounds", September 2013

30th International Physics Congress by Turkish Physical Society, 2013

27th International Physics Congress by Turkish Physical Society, 2010

1st, 2nd, 4th Physics Workshop , Istanbul University, 2011, 2012, 2014

Research Areas

Solid State Physics, Semiconductors, Optoelectronic Devices, Nanotechnology, Nano Fabrication, Device Characterizations, Low Dimensional Semiconductors, Nanostructures Based on II-VI Compounds, Electronic, Magneto-Transport Properties in Low Dimensional Semiconductors, Optical Characterization,

Membership of Professional Society

Turkish Physics Society

Awards

Faculty First, Faculty of Science, Istanbul University, 2012-2013

Department First, Physics Department, Istanbul University, 2012-2013

TUBITAK (Resonant Cavity Enhanced GaInNAs-based Photodetectors with Gain for Operation at 1.3 μm) Scholarship, 2014

TUBITAK (Influence of Bismuth Concentration on Electronic Transport Properties in dilute Bismuth Modulation Doped GaAsBi/GaAs Quantum Well Structures) Scholarship, 2016

YOK Micro and Nanotechnology PhD Scholarship, 2017

TPS 31st International Physics Congress Ozgen Berkol Dogan The Best Experimental Physics Poster Presentation Award

Pblications

SCI Papers

Çağlar Çetinkaya, Selman Mutlu, Omer Donmez, Ayse Erol, 2017, “*Characterization of emitted light from travelling Gunn domains in $Al_{0.08}Ga_{0.92}As$ alloy based Gunn devices*”, Superlattices and Microstructures, DOI: 10.1016/j.spmi.2017.07.028

Presentations

Çağlar Çetinkaya, Selman Mutlu, Ömer Dönmez and Ayşe Erol, “*Light Emission from $Al_{0.08}Ga_{0.92}As$ Gunn Device*”, Nanophotonics and Micro/Nano Optics International Conference – NANOP 2016, Paris/France 8th December 2016, Poster Presentation

Ç. Çetinkaya, S. Mutlu, O. Donmez, A. Erol, N. Balkan, M. C. Arıkan, “*Stimulated Light Emission from Gunn Domains in Fabry Pérot $Al_{0.08}Ga_{0.92}As$ Gunn Device*”, Turkish Physical Society 32nd International Physics Congress, Bodrum/Turkey, 6 September 2016, Oral Presentation

Ç. Çetinkaya, S. Mutlu, O. Donmez, A. Erol, N. Balkan, M. C. Arıkan, “*Investigation of Light Emission Based on Gunn Effect in n-type GaAs*”, 9th International Physics Conference of the Balkan Physical Union 24-27 August 2015, İstanbul University, İstanbul / Turkey, Poster Presentation

Çetinkaya C., Donmez O., Erol A., Arıkan M. C., Puustinen J., Guina M., “*Electronic Transport in n- and p-type modulation doped $Ga_{1-x}In_xNyAs_{1-y}/GaAs$ quantum well structures*”, 30th International Physics Congress by Turkish Physical Society Poster Presentation

Computer skills

MatLab, Mathematica, LabView, MS Office programs, Web design (HTML language), Origin, Fortran, C++, UBUNTU, Python, MathCad, Solidworks, Autocad