

NESLIHAN AYARCI KURUOĞLU

RES. ASST. PHD

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Learning Knowledge

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| Doctorate 2012 - 2017 | Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Fizik/ Fizik , Turkey |
| Post Graduate 2009 - 2012 | Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Fizik/ Nükleer Fizik , Turkey |
| Under Graduate 2005 - 2009 | Celal Bayar Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Turkey |

Dissertations

Doctorate, METAL-ORGANİK KİMYASAL BUHARLAŞTIRMA TEKNİĞİ İLE BÜYÜTÜLMÜŞ UZUN DALGABOYLU LAZER YAPILARIN ELEKTRİKSEL ÖZELLİKLERİNİN İNCELENMESİ, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik, 2017

Post Graduate, Bombardımanla hafif atom numaralı hedefe gönderilen ağır iyonların dağılımının incelenmesi, Ege Üniversitesi, Faculty of Mechanical Engineering, Fizik, 2011

Academic Titles / Tasks

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| Research Assistant PhD 2017 - Continues | Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik |
| Research Assistant 2011 - 2017 | Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü |

Supported Projects

- AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, %30 In katkılı $In_xGa_{1-x}N/GaN$ çoklu kuantum kuyuların optoelektronik özelliklerinin incelenmesi, 2018 - 2019
- BOZKURT K., AYARCI KURUOĞLU N., Project Supported by Higher Education Institutions, Metal-organik kimyasal buharlaştırma tekniği ile büyütülmüş uzun dalga boylu lazer yapıların elektriksel özelliklerinin incelenmesi, 2015 - 2018

Awards

1. AYARCI KURUOĞLU N., 2016 Engin ABAT En İyi Kuramsal Poster Bildiri Ödülü, Türk Fizik Derneği, September 2017

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

1. **Impact of trap states on inductive phenomena in 30% InGaN/GaN MOW LED devices**
BOZKURT K., ÖZDEMİR O., KURUOĞLU N., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.52, 2019 (Journal Indexed in SCI)
2. **Dc and ac electrical response of MOCVD grown GaN in p-i-n structure, assessed through I-V and admittance measurement**
Kuruoglu N., ÖZDEMİR O., BOZKURT K., Sundaram S., Salvestrini J., Ougazzaden A., Gaimard Q., BELAHSENE S., Merghem K., RAMDANE A.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.50, 2017 (Journal Indexed in SCI)
3. **Betavoltaic study of a GaN p-i-n structure grown by metal-organic vapour phase epitaxy with a Ni-63 source**
Kuruoglu N., ÖZDEMİR O., BOZKURT K.
THIN SOLID FILMS, vol.636, pp.746-750, 2017 (Journal Indexed in SCI)
4. **Simultaneous Determination of Electron and Hole Mobilities in InP/InGaAsP/InAs/InP Laser Heterostructure by Admittance Spectroscopy**
Kuruoglu N., ÖZDEMİR O., BOZKURT K., BELAHSENE S., MARTINEZ A., RAMDANE A.
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.64, pp.2881-2885, 2017 (Journal Indexed in SCI)
5. **Discrimination of Carrier Conduction Mechanisms of InP/InGaAsP/InAs/InP Laser Structure Through J-V-T Measurements**
Ayarcı N., ÖZDEMİR O., BOZKURT K., RAMDANE A., BELAHSENE S., MARTINEZ A.
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.63, pp.1866-1870, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

1. **Investigation of Carrier Conduction Mechanism over InAs/InP Quantum Dashes and InAs/GaAs Quantum Dots Based p-i-n Laser Heterostructures**
Ayarcı Kuruoğlu N., Özdemir O., Bozkurt K.
Journal of Materials Science and Chemical Engineering, no.9, pp.1-9, 2017 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

1. **Luminescence Properties of In-Rich InGaN/GaN Multiple Quantum Wells Light Emitting Diodes**
BOZKURT K., ÖZDEMİR O., AYARCI KURUOĞLU N., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
2. **Simultaneous Determination of Electron and Hole Mobility in InGaN/GaN Multi Quantum Well LED Through AC Admittance Spectroscopy**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
3. **Light Emission Bands of InGaN/GaN MQW based LED in P-I-N Structures**
BAŞ H., ÖZDEMİR O., AYARCI KURUOĞLU N., BOZKURT K., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
4. **Determination of Conduction Path in InGaN/GaN MQW LED by Current-Voltage and Admittance**

Measurements

ÖZDEMİR O., AYARCI KURUOĞLU N., BOZKURT K., BAŞ H., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.

Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018

5. **Effect of Ni-63 Radiations on MBE Grown GaN in p-i-n Structure by Admittance Spectroscopy**
BOZKURT K., AYARCI KURUOĞLU N., ÖZDEMİR O., Belahsene S., Martinez A., Ramdane A.
XL BRAZILIAN MEETING ON NUCLEAR PHYSICS, Sao Paulo, Brazil, 03 September 2017, pp.1
6. **MBE tekniği ile büyütülmüş p-i-n GaN yapıdaki Ni-63 radyasyon etkisinin empedans spektroskopisiyle incelenmesi**
BOZKURT K., AYARCI KURUOĞLU N., ÖZDEMİR O.
XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Aydın, Turkey, 12 October 2016
7. **Betavoltaic study on GaN p-i-n diode with Ni-63 source**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.
Science and Applications of Thin Films, Congress & Exhibition - SATF 2016, İzmir, Turkey, 19 September 2016
8. **Negative capacitance in InP/InGaAsP/InP quantum dashes assessed through dc and ac electrical measurements.**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 06 September 2016
9. **Electroluminescence study of MBE (Molecular Beam Epitaxy) grown InP/InGaN/InAs/InP p-i-n laser heterostructure**
BOZKURT K., AYARCI KURUOĞLU N., ÖZDEMİR O.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 06 September 2016
10. **Transport Mechanisms of InAs/InP Quantum Dashes and InAs/GaAs Quantum Dots Based p-i-n Laser Heterostructure**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K.
2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Turkey, 16 May 2016
11. **Photo-voltaic Properties and Carrier Conduction Mechanisms of InP/InGaAsP/InP Quantum Well Through J-V-T Measurements**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.
SOLAR-TR3, Ankara, Turkey, 27 April 2016
12. **Investigation of Potential to Produce Electricity from Commercial Solar Cell Through Beta Particles**
AYARCI KURUOĞLU N., BOZKURT K., ÖZDEMİR O., MENDA U. D., AKÇALI Ö., KUTLU K.
APMAS 2013, Antalya, Turkey, 15 April 2013
13. **Nuclear Battery: Betavoltaic Power Source and Applications**
AYARCI KURUOĞLU N., BOZKURT K., ÖZDEMİR O., KUTLU K.
SUNEC-2012, Sicily, Italy, 08 October 2012
14. **Hafif Atom Numaralı Hedef İçine Gönderilen Ağır İyonların Dağılımının İncelenmesi**
AYARCI N., SELVİ A. S.
Turkish Physical Society 28. International Physics Conference, 5 - 08 December 2011

Scientific Refereeing

IEEE Transactions On Electron Devices, SCI Journal, April 2020

Tasks In Event Organizations

Yüksel E., Bozkurt K., Ayarçı Kuruoğlu N., Workshop on Nuclear Structure, Astrophysics and Reactions, Scientific Congress, İstanbul, Turkey, Mayıs 2014

Mobility Activity

Other Exchange Programme, Research During Graduate Education, CNRS Laboratory for Photonics and Nanostructures, France, 2014 - 2014

Other, Research During Graduate Education, CNRS Laboratory for Photonics and Nanostructures, France, 2013 - 2013

Invited Congress and Symposium Activities

Turkish Physical Society 34th International Physics Congress, Attendee, Muğla, Turkey, 2018

Turkish Physical Society 33th International Physics Congress, Attendee, Turkey, 2017

Science and Applications of Thin Films, Congress & Exhibition - SATF 2016, Attendee, İzmir, Turkey, 2016

Turkish Physical Society 32nd International Physics Congress., Attendee, Muğla, Turkey, 2016

2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Attendee, Çanakkale, Turkey, 2016

Nükleer ve Parçacık Fiziğinde Monte Carlo Uygulamaları Bahar Okulu (NUPAMC), Attendee, Amasya, Turkey, 2016

SOLAR-TR3, Attendee, Ankara, Turkey, 2015

APMAS 2013, Attendee, Antalya, Turkey, 2013

Nükleer ve Parçacık Fiziğinde Monte Carlo Uygulamaları (NUPAMC) Bahar Okulu, Attendee, Bitlis, Turkey, 2012

13. ULUSAL MEDİKAL FİZİK KONGRESİ, Attendee, İzmir, Turkey, 2011

Citations

Total Citations (WOS):17

h-index (WOS):2

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Natural Sciences