

# Prof. BEYZA LIŞESİVDİN

## Personal Information

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## International Researcher IDs

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ScopusID: 55319378800

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## Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2005 - 2010

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2003 - 2005

Undergraduate, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1998 - 2003

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Yarıiletken ince filmlerin X-ışını kırınımı ile kusur analizi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2010

Postgraduate,  $In_xGa_{1-x}As(GaAs)$  ( $x=0,15$ ) süperörgüsünün MBE ile büyütülmesi ve elektriksel-yapısal özelliklerinin belirlenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2005

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2022 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2015 - 2022

Lecturer PhD, Gazi University, Fen Fakültesi, Fizik, 2010 - 2015

Lecturer, Gazi University, Fen Fakültesi, Fizik, 2009 - 2010

Research Assistant, Kastamonu University, Faculty Of Arts And Sciences, Department Of Physics, 2005 - 2009

## Academic and Administrative Experience

Orhun Değişim Programı Fizik Bölümü Koordinatörü, Gazi University, Fen Fakültesi, Fizik, 2022 - Continues  
Researcher, Universitaet Ulm, Institute for Quantum Optics, Institute for Quantum Optics, 2019 - 2020  
Researcher, University of Essex, Engineering Faculty, Optoelectronic Materials & Devices Lab, 2013 - 2013

## Courses

Introduction to Nanotechnology, Undergraduate, 2023 - 2024  
Fizik 1 (2. Şube), Undergraduate, 2020 - 2021, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014  
Fizik, Undergraduate, 2020 - 2021  
Fik Laboratuvarı, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Araştırma Projesi 2, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014  
Fizik Laboratuvarı, Undergraduate, 2012 - 2013, 2011 - 2012

## Advising Theses

LİŞESİVDİN B., GaAs/AlGaAs yapıların geniş akım bandındaki elektriksel karakterlerinin incelenmesi, Postgraduate,  
C.BEKTAŞ(Student), 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Structural and optical properties of mist-CVD grown MgZnO: Effect of precursor solution composition**  
Han T., Kutlu-Narin E., NARİN P., LİŞESİVDİN B., LİŞESİVDİN S. B.  
Physica B: Condensed Matter, vol.659, 2023 (SCI-Expanded)
- II. **Electronic Properties of a Novel Boron Polymorph: Ogee-Borophene**  
LİŞESİVDİN B., LİŞESİVDİN S. B.  
Advances in Condensed Matter Physics, vol.2023, 2023 (SCI-Expanded)
- III. **A structural analysis of ultrathin barrier (In)AlN/GaN heterostructures for GaN-based high-frequency power electronics**  
Narin P., Kutlu-Narin E., Atmaca G., Sarikavak-Lisesivdin B., LİŞESİVDİN S. B., ÖZBAY E.  
SURFACE AND INTERFACE ANALYSIS, vol.54, no.5, pp.576-583, 2022 (SCI-Expanded)
- IV. **gpaw-tools – higher-level user interaction scripts for GPAW calculations and interatomic potential based structure optimization**  
Lişesivdin S. B., Sarikavak-Lisesivdin B.  
Computational Materials Science, vol.204, 2022 (SCI-Expanded)
- V. **Investigation of Structural and Optical Properties of ZnO Thin Films Grown on Different Substrates by Mist-CVD Enhanced with Ozone Gas Produced by Corona Discharge Plasma**  
Kutlu-Narin E., Narin P., LİŞESİVDİN S. B., Sarikavak-Lisesivdin B.  
ADVANCES IN CONDENSED MATTER PHYSICS, vol.2021, 2021 (SCI-Expanded)
- VI. **Structural parameters and electronic properties of 2D carbon allotrope: Graphene with a kagome lattice structure**  
Sarikavak-Lisesivdin B., LİŞESİVDİN S. B., Ozbay E., Jelezko F.  
CHEMICAL PHYSICS LETTERS, vol.760, 2020 (SCI-Expanded)
- VII. **A Comparative Study of AlGaN and InGaN Back-Barriers in Ultrathin-Barrier AlN/GaN Heterostructures**  
Abbas J. M. A., Atmaca G., NARİN P., Kutlu E., Sarikavak-Lisesivdin B., Lisesivdin S. B.  
JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.8, pp.5278-5286, 2017 (SCI-Expanded)
- VIII. **The effect of doping in different layers on 2DEG for ultrathin-barrier AlN/GaN heterostructures**

Al Abbas J. M., NARİN P., Atmaca G., Kutlu E., Sarikavak-Lisesivdin B., Lisesivdin S. B.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.11, pp.328-331, 2017 (SCI-Expanded)

- IX. **Electronic structure of beta-Si<sub>3</sub>N<sub>4</sub> crystals with substitutional icosagen group impurities**  
Kutlu E., NARİN P., Atmaca G., Sarikavak-Lisesivdin B., LIŞESİVDİN S. B., Ozbay E.  
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.19, pp.278-282, 2017 (SCI-Expanded)
- X. **Effect of substitutional As impurity on electrical and optical properties of beta-Si<sub>3</sub>N<sub>4</sub> structure**  
Kutlu E., NARİN P., Atmaca G., Sarikavak-Lisesivdin B., Lisesivdin S. B., Ozbay E.  
MATERIALS RESEARCH BULLETIN, vol.83, pp.128-134, 2016 (SCI-Expanded)
- XI. **Electronic properties of Li-doped zigzag graphene nanoribbons**  
NARİN P., Kutlu E., Sarikavak-Lisesivdin B., Lisesivdin S. B., Ozbay E.  
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.84, pp.543-547, 2016 (SCI-Expanded)
- XII. **Two dimensional electron gas in a hybrid GaN/InGaN/ZnO heterostructure with ultrathin InGaN channel layer**  
Atmaca G., NARİN P., Sarikavak-Lisesivdin B., Lisesivdin S. B.  
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.79, pp.67-71, 2016 (SCI-Expanded)
- XIII. **Energy Relaxation of Electrons in InGaN Quantum Wells**  
Sarikavak-Lisesivdin B., LIŞESİVDİN S. B., Balkan N., Atmaca G., NARİN P., Cakmak H., ÖZBAY E.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.4, pp.1565-1569, 2015 (SCI-Expanded)
- XIV. **Electron Transport Properties of Two-Dimensional Electron Gas in Be<sub>x</sub>Zn<sub>1-x</sub>O/ZnO Heterostructures**  
Atmaca G., Narin P., Lisesivdin S. B., Kasap M., Sarikavak-Lisesivdin B.  
PHILOSOPHICAL MAGAZINE, vol.95, no.1, pp.79-89, 2015 (SCI-Expanded)
- XV. **Numerical optimization of two-dimensional electron gas in Mg<sub>x</sub>Zn<sub>1-x</sub>O/ZnO heterostructures (0.10 < x < 0.30)**  
Sarikavak-Lisesivdin B.  
PHILOSOPHICAL MAGAZINE, vol.93, no.9, pp.1124-1131, 2013 (SCI-Expanded)
- XVI. **First-principles calculations of Pd-terminated symmetrical armchair graphene nanoribbons**  
Kuloglu A. F., Sarikavak-Lisesivdin B., Lisesivdin S. B., Ozbay E.  
COMPUTATIONAL MATERIALS SCIENCE, vol.68, pp.18-22, 2013 (SCI-Expanded)
- XVII. **The effect of In<sub>x</sub>Ga<sub>1-x</sub>N back-barriers on the dislocation densities in Al<sub>0.31</sub>Ga<sub>0.69</sub>N/AlN/GaN/In<sub>x</sub>Ga<sub>1-x</sub>N/GaN heterostructures (0.05 ≤ x ≤ 0.14)**  
Sarikavak-Lisesivdin B., Lisesivdin S. B., Ozbay E.  
CURRENT APPLIED PHYSICS, vol.13, no.1, pp.224-227, 2013 (SCI-Expanded)
- XVIII. **Ab initio study of Ru-terminated and Ru-doped armchair graphene nanoribbons**  
Sarikavak-Lisesivdin B., Lisesivdin S. B., Ozbay E.  
MOLECULAR PHYSICS, vol.110, no.18, pp.2295-2300, 2012 (SCI-Expanded)
- XIX. **Grain Boundary Related Electrical Transport in Al-rich Al<sub>x</sub>Ga<sub>1-x</sub>N Layers Grown by Metal-Organic Chemical Vapor Deposition**  
Yildiz A., Tasli P., Sarikavak B., Lisesivdin S. B., Ozturk M. K., Kasap M., Ozcelik S., Ozbay E.  
SEMICONDUCTORS, vol.45, no.1, pp.33-36, 2011 (SCI-Expanded)
- XX. **Numerical simulation of novel ultrathin barrier n-GaN/InAlN/AlN/GaN HEMT structures: Effect of indium-mole fraction, doping and layer thicknesses**  
Tasli P., Sarikavak B., Atmaca G., Elibol K., Kuloglu A. F., Lisesivdin S. B.  
PHYSICA B-CONDENSED MATTER, vol.405, no.18, pp.4020-4026, 2010 (SCI-Expanded)
- XXI. **Influence of thermal annealing on the structure and optical properties of d.c. magnetron sputtered titanium dioxide thin films**  
Kars İ., Cetin S. Ş., KINACI B., Sarikavak B., Bengi A., Altuntas H., Ozturk M. K., Ozcelik S.  
SURFACE AND INTERFACE ANALYSIS, vol.42, pp.1247-1251, 2010 (SCI-Expanded)
- XXII. **Interface state density analyzing of Au/TiO<sub>2</sub>(rutile)/n-Si Schottky barrier diode**  
Altuntas H., Bengi A., Asar T., Aydemir U., Sarikavak B., Özen Y., Altindal Ş., Ozcelik S.

- SURFACE AND INTERFACE ANALYSIS, vol.42, no.6-7, pp.1257-1260, 2010 (SCI-Expanded)
- XXIII. **Interdiffusion phenomena in InGaAs/GaAs superlattice structures**  
Sarıkavak B., Ozturk M. K., Mammadov T. S., Ozcelik S.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.45, no.5, pp.517-524, 2010 (SCI-Expanded)
- XXIV. **Structural analysis of an InGaN/GaN based light emitting diode by X-ray diffraction**  
Ozturk M. K., Hongbo Y., Sarıkavak B., Korcak S., Ozcelik S., Ozbay E.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.21, no.2, pp.185-191, 2010 (SCI-Expanded)
- XXV. **Effects of annealing on the structural properties of GaAs-based quantum well solar cells**  
Asar T., Sarıkavak B., Ozturk M. K., Mammadov T., Ozcelik S.  
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.11, no.11, pp.1627-1631, 2009 (SCI-Expanded)
- XXVI. **MBE-growth and characterization of In<sub>x</sub>Ga<sub>1-x</sub>As/GaAs (x=0.15) superlattice**  
Sarıkavak B., Oeztuerk M. K., Altuntas H., Mammedov T. S., Altindal Ş., Oezcelik S.  
REVISTA MEXICANA DE FISICA, vol.54, no.6, pp.416-421, 2008 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Preparation of Carbon Nanospheres by An Autoclave Type Reactor**  
Lişesivdin B.  
Balkan Physics Letters, vol.1, pp.401-403, 2008 (Peer-Reviewed Journal)
- II. **Analyze of Defects in InGaAs epilayer with High resolution X ray diffraction**  
Lişesivdin B.  
FİZİKA, vol.1, pp.179-183, 2008 (Peer-Reviewed Journal)
- III. **Electrical Characteristics of Au In<sub>0.25</sub>Ga<sub>0.75</sub>As GaAs Structures**  
Lişesivdin B.  
FİZİKA, vol.1, pp.261-263, 2008 (Peer-Reviewed Journal)
- IV. **The structural and Optical Analysis of the Graded 1 micrometer Thick n GaAs<sub>1-x</sub>P<sub>x</sub> GaAs Structures**  
Lişesivdin B.  
FİZİKA, vol.1, no.1, pp.18-20, 2008 (Peer-Reviewed Journal)

### Books & Book Chapters

- I. **Chapter 15: The Effects of the Interaction of Transition Metals on the Electronic Properties of the Graphene Nanosheets and Nanoribbons**  
Lişesivdin S. B., Lişesivdin B., Özbay E.  
in: Graphene Science Handbook Vol.3, Mahmood Aliofkhaezraei, Nasar Ali, William I. Milne, Cengiz S. Ozkan, Stanislaw Mitura, Juana L. Gervasoni, Editor, CRC, New York, Florida, pp.221-235, 2016
- II. **Nanoteknoloji Devrimini Anlamak**  
LİŞESİVDİN B., LİŞESİVDİN S. B.  
Nobel Yayinevi, 2014

### Refereed Congress / Symposium Publications in Proceedings

- I. **Ab-initio Study of Optical Property Investigations for Bulk Aluminium Sulfide**  
LİŞESİVDİN B.  
II. International Europa Scientific Researches and Technological Development Congress, Baku, Azerbaijan, 26 November 2023
- II. **Exploring the Electronic Properties of Bulk Al<sub>2</sub>S<sub>3</sub>: A Density Functional Theory Study**  
LİŞESİVDİN B.

- II. International Europa Scientific Researches and Technological Development Congress, Baku, Azerbaijan, 26 November 2023
- III. **Germanene: DFT investigation of Electronic and Optical Properties changing with Au and Cu doping**  
Han T., LİŞESİVDİN B., LİŞESİVDİN S. B.  
9th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 September 2022, pp.170
- IV. **Multi-Code, Low-Barrier Python Toolkit For MD/DFT Studies**  
LİŞESİVDİN B., LİŞESİVDİN S. B.  
9th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 September 2022, pp.104
- V. **Doped Tin Carbide (SnC) Based Nanostructure for Applications In Nanoelectronics**  
Ansari M. T., NARİN P., LİŞESİVDİN S. B., LİŞESİVDİN B., ÖZBAY E.  
9th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 September 2022, pp.150
- VI. **gpaw-tools: UI/GUI scripts for GPAW software**  
LİŞESİVDİN B., LİŞESİVDİN S. B.  
2022 Workshop on Recent Developments in Electronic Structure (ES22), New York, United States Of America, 31 May 2022
- VII. **DFT Investigation of Electronic and Optical Properties of Silver Doped Germanene**  
Han T., LİŞESİVDİN B., LİŞESİVDİN S. B.  
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 01 September 2021, pp.240
- VIII. **Spin-polarized DFT calculations of nitrogen-vacancy color centers in diamond with various XC potentials**  
LİŞESİVDİN B., LİŞESİVDİN S. B., ÖZBAY E., Jelezko F.  
Quantum Optics and Informatics Meeting – 4 (Kobit 4), İzmir, Turkey, 14 - 15 May 2020
- IX. **Calculation of Carrier Density and probability density calculations of heterostructures**  
LİŞESİVDİN B.  
WITAM 2018, 21 - 23 September 2018
- X. **HR-XRD Characterizations of Ultra Thin Barrier HEMT Structures**  
LİŞESİVDİN B.  
WITAM 2018, 21 - 23 September 2018
- XI. **Electrical characteristics of GaAs AlGaAs Structures in the wide Frequency ranges**  
Bektaş C., GÜNEŞ M., LİŞESİVDİN B., Henini M., ALTINDAL Ş.  
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016
- XII. **Ultrathin Bariyerli GaN ve InAlN GaN HEMT Yapılarının Yapısal ve Yüzey Özelliklerinin İncelenmesi**  
Narin P., Kutlu E., Atmaca G., LİŞESİVDİN B., LİŞESİVDİN S. B., ÖZBAY E.  
18. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 23 September 2016, vol.72
- XIII. **Ultrathin Bariyerli GaN Temelli HEMT lerde Elektron Gazının Elektriksel Özellikleri ve Saçılma Analizleri**  
Öztürk M., Arslan E., Narin P., LİŞESİVDİN S. B., LİŞESİVDİN B., ÖZBAY E.  
18. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 23 September 2016, vol.50
- XIV. **Numerical Investigation Of 2DEG Properties In Ultrathin Barrier AlN GaN Heterostructures With AlGaIn and InGaIn Back Barriers**  
Al Abbas J. M., Atmaca G., Narin P., Kutlu E., LİŞESİVDİN B., LİŞESİVDİN S. B.  
18. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 23 September 2016, vol.47
- XV. **P tipi ve N tipi InGaIn Arka Bariyerli Ultrathin AlInN GaN Çoklu Yapılarda İki Boyutlu Elektron Gazı**  
Al Abbas J., Narin P., Kutlu E., Atmaca G., LİŞESİVDİN S. B., LİŞESİVDİN B.  
ADIM Physics Congress V, Turkey, 21 - 23 April 2016, vol.163
- XVI. **Li Katkılı Zigzag Kenarlı Grafen Nano Şeritlerin Elektronik Özelliklerinin DFT ile İncelenmesi**

- KUTLU E., NARİN P., ATMACA G., AL ABBAS J. M., LİŞESİVDİN B., LİŞESİVDİN S. B.  
ADIM Fizik Günleri V, Eskişehir, Turkey, 21 - 23 April 2016
- XVII. **Ultraince AlN GaN Çokluyapılarda Farklı Katmanların Katkılanmasının 2BEG Üzerine etkisi**  
AL ABBAS J. M., NARİN P., ATMACA G., KUTLU E., LİŞESİVDİN S. B., LİŞESİVDİN B.  
ADIM Fizik Günleri V, Eskişehir, Turkey, 21 - 23 April 2016
- XVIII. **Ultraince Bariyerli AlN GaN Çoklu Yapılarda Farklı Katmanların 2BEG Üzerine Etkisi**  
Al Abbas J., Atmaca G., Narin P., Kutlu E., LİŞESİVDİN S. B., LİŞESİVDİN B.  
ADIM Physics Congress V, Turkey, 21 - 23 April 2016, vol.164
- XIX. **Li Katkılı Zigzag Kenarlı Grafen Nano Şeritlerin Elektronik Özelliklerinin İncelenmesi**  
Kutlu E., Narin P., Atmaca G., Al Abbas J., LİŞESİVDİN B., LİŞESİVDİN S. B.  
ADIM Physics Congress V, Turkey, 21 - 23 April 2016, vol.151
- XX. **ELECTRONIC PROPERTIES OF ARMCHAIR GRAPHENE NANORIBBONS WITHNICKEL TERMINATION**  
ÇAĞIRTEKİN A. O., NARİN P., LİŞESİVDİN B.  
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015
- XXI. **The effect of in situ Si<sub>3</sub>N<sub>4</sub> passivation on hot electron energy relaxation rates in AlGa<sub>n</sub> GaN Hetrostructures**  
Atmaca G., Malin T., Kutlu E., Ardahı Ş., Narin P., Mansurov V., LİŞESİVDİN B., LİŞESİVDİN S. B., TIRAŞ E., Zhuravlev K.  
GaN InN AlN 2015, 23 - 25 May 2015
- XXII. **First Principle Calculations of Electrical Properties of Insulator Wurtzite the Si<sub>3</sub>N<sub>4</sub> with the Aluminum Indium and Gallium Impurities**  
Kutlu E., Narin P., Atmaca G., LİŞESİVDİN B., LİŞESİVDİN S. B.  
1. Uluslararası Organik Elektronik Malzeme Teknolojileri Konferansı, 25 - 28 March 2015
- XXIII. **Two diodes model in the forward bias current voltage I V characteristics of Al<sub>0.33</sub>Ga<sub>0.67</sub>As n GaAs at room temperature**  
GÜNEŞ M., LİŞESİVDİN B., Henini M., ALTINDAL Ş.  
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- XXIV. **Investigation of Optical Properties of the Beta Si<sub>3</sub>N<sub>4</sub> Structure doped with some group IIIA Elements**  
Narin P., Kutlu E., Atmaca G., LİŞESİVDİN B., LİŞESİVDİN S. B.  
1. Uluslararası Organik Elektronik Malzeme Teknolojileri Konferansı, 25 - 28 March 2015
- XXV. **First Principle Calculations of Electrical Properties of Insulator Wurtzite Beta Si<sub>3</sub>N<sub>4</sub> with the Aluminum Indium and Gallium Impurities**  
Kutlu E., Narin P., Atmaca G., LİŞESİVDİN B., LİŞESİVDİN S. B.  
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- XXVI. **Investigation of Optical Properties of the Si<sub>3</sub>N<sub>4</sub> structure doped with some Group IIIA Elements**  
Narin P., Kutlu E., Atmaca G., LİŞESİVDİN B., LİŞESİVDİN S. B.  
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- XXVII. **Electrical characteristics of GaAs AlGaAs Structures in the wide Frequency and applied bias voltage ranges at room temperature**  
GÜNEŞ M., LİŞESİVDİN B., PESEN E., Henini M., ALTINDAL Ş.  
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- XXVIII. **The Effect of In Situ Si<sub>3</sub>N<sub>4</sub> Passivation on Hot Electron energy Relaxation Rates in AlGa<sub>n</sub> GaN Heterostructures**  
Atmaca G., Malin T., Kutlu E., Ardahı Ş., Narin P., Mansurov V., LİŞESİVDİN B., LİŞESİVDİN S. B., TIRAŞ E., Zhuravlev K.  
10th All-Russian Conference Gallium, aluminum and indium nitrides, 23 - 25 March 2015
- XXIX. **Ab initio study of oxygen and arsenic impurities on non-linear optical properties of β-Si<sub>3</sub>N<sub>4</sub> material**  
Kutlu E., NARİN P., Atmaca G., LİŞESİVDİN B., LİŞESİVDİN S. B.  
Конференция И Школа Молодых Учёных По Актуальным Проблемам Физики Полупроводниковых Структур, Novosibirsk, Russia, 15 September 2014, pp.77
- XXX. **Investigation of the effect of the arsenic impurity on the electronic and optical properties of β-Si<sub>3</sub>N<sub>4</sub>dielectric material**

LİŞESİVDİN S. B., Kutlu E., NARİN P., Atmaca G., LİŞESİVDİN B.

Turkish Physical Society 31th International Physics Congress, Muğla, Turkey, 21 July 2014, pp.402

**XXXI. A Numerical Investigation on Electronic Properties of Two Dimensional Electron Gas in BexZn1-xO/ZnO Heterostructures**

NARİN P., Atmaca G., LİŞESİVDİN B., LİŞESİVDİN S. B., KASAP M.

Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, pp.529

**XXXII. First Principles Study of Interaction Between Ru and Graphene Nanoribbons**

LİŞESİVDİN B., LİŞESİVDİN S. B., ÖZBAY E.

2nd Int. Conf. on Comp. for Sci. and Techno, Niğde, Turkey, 9 - 11 July 2012, pp.70

**XXXIII. AlGaN/GaN-temelli Yüksek Hareketlilik Sahip Transistörlerde InGaN Geribariyerin Dislokasyon Yoğunluğuna Etkisi**

LİŞESİVDİN B., LİŞESİVDİN S. B., ÖZBAY E.

ADIM Physics Congress II, Denizli, Turkey, 25 - 27 April 2012, pp.131

**XXXIV. Influence of thermal annealing on the structure and optical properties of DC magnetron sputtered titanium dioxide thin films**

Kars Durukan İ., Aydın S. Ş., Kınacı B., Lişesivdin B., Bengi A., Altuntaş H., Öztürk M., Özçelik S.

13th European Conference on Applications of Surface and Interface Analysis (ECASIA 09), Antalya, Turkey, 18 - 23 October 2009

## Supported Projects

Lişesivdin S. B., Lişesivdin B., Project Supported by Higher Education Institutions, MistCVD ile büyütülen p-tipi Cu<sub>2</sub>O yarıiletken incefilmler ile Ga<sub>2</sub>O<sub>3</sub>/Cu<sub>2</sub>O p-n kavşak üretimi ve ilgili hesaplamalı çalışmaları, 2022 - 2023

Durmuş P., Lişesivdin B., Project Supported by Higher Education Institutions, ARAYÜZEY TABAKALI METAL/YARIİLETKEN (MS) YAPILARDA ELEKTRİKSEL ÖZELLİKLERİN RADYASYON VE FREKANSA BAĞLI İNCELENMESİ, 2018 - 2020

LİŞESİVDİN B., TUBITAK Project, Ultra-İnce Bariyerli Gan-Temelli Yarıiletken Çokluyapıların Elektriksel Ve Yapısal Özelliklerinin İncelenmesi114F508, 2015 - 2017

Lişesivdin S. B., Lişesivdin B., Project Supported by Higher Education Institutions, MgxZn1-xO/ZnO ve BexZn1-xO/ZnO çokluyapılarını temel alan transistörlerin numerik optimizasyonu, 2012 - 2013

Lişesivdin B., Project Supported by Higher Education Institutions, Bazı Nadir Toprak Oksitlerinin yapısal elastik elektronik termodinamik ve titreşimsel özelliklerinin ab initio yöntemlerle incelenmesi, 2012 - 2012

LİŞESİVDİN B., Project Supported by Higher Education Institutions, Bazı Nadir Toprak Oksitlerinin yapısal, elastik, elektronik, termodinamik ve titreşimsel özelliklerinin ab-initio yöntemlerle incelenmesi, 2011 - 2012

## Metrics

Publication: 68

Citation (WoS): 185

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H-Index (Scopus): 9

## Non Academic Experience

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