



SEFER BORA LIŞESİVDİN

PROF.

Email : bora@gazi.edu.tr

Other Email : sblisesivdin@gmail.com

Office Phone : [+90 312 202 1391](tel:+903122021391)

Address : Gazi Üniversitesi Fen Fakültesi Fizik Bölümü 06500

Teknikokullar Ankara

International Researcher IDs

ScholarID: WpVqsEkAAAAJ

ORCID: 0000-0001-9635-6770

Publons / Web Of Science ResearcherID: A-9748-2008

ScopusID: 16242267700

Yoksis Researcher ID: 41995



Biography

He was graduated from Hacettepe University, Department of Physics Engineering in 2003. Then, he completed his M.Sc. studies about electron and magnetotransport properties of AlGaAs/GaAs and InGaAs/GaAs heterostructures at Gazi University, Advanced Technologies Department in 2005. He went to the University of Essex (UK) as a visiting research student for 6 months. He completed his Ph.D. studies about electron and magnetotransport properties, scattering properties of 2D electrons, and hot electron transport of AlGaIn/GaN HEMT structures grown by MOCVD in 2008. He worked as a postdoc at Bilkent University, Nanotechnology Research Center between 2008-2009. He started to work at Gazi University in 2009 as a faculty member. He went to the University of Essex (UK) and Universität Ulm (Germany) as a visiting researcher in 2013 and 2019, respectively. He is still working as a full professor at Gazi University, Physics Department.

Learning Knowledge

Doctorate
2005 - 2008

Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey

Postgraduate
2004 - 2005

Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), Turkey

Undergraduate
1997 - 2003

Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, AlGa_N/Ga_N temelli yüksek elektron hareketlilikli transistörlerin (HEMT) elektron ve manyeto iletim özellikleri, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2008

Postgraduate, MBE tekniği ile büyütülen InGaAs/GaAs ve AlGaAs yarıiletkenlerinin iletim özellikleri, Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2005

Academic Titles / Tasks

Professor 2018 - Continues	Gazi University, Fen Fakültesi, Fizik
-------------------------------	---------------------------------------

Associate Professor 2011 - 2018	Gazi University, Fen Fakültesi, Fizik
------------------------------------	---------------------------------------

Assistant Professor 2009 - 2011	Gazi University, Fen Fakültesi, Fizik
------------------------------------	---------------------------------------

Supported Projects

1. Lişesivdin S. B., Lişesivdin B., Project Supported by Higher Education Institutions, MistCVD ile büyütülen p-tipi Cu₂O yarıiletken incefilmler ile Ga₂O₃/Cu₂O p-n kavşak üretimi ve ilgili hesaplamalı çalışmaları, 2022 - 2023
2. Lişesivdin S. B., Yıldız A., TUBITAK Project, Investigation of Growth Behaviors and 2DEG Properties of MgZnO/ZnO Heterostructures grown by USPECVD Method, 2017 - 2020
3. Lişesivdin S. B., Tıraş E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Modification of properties of two-dimensional electronic gas using insitu surface passivation of AlGa_N/Ga_N heterostructures by molecular beam epitaxy, 2014 - 2016
4. Lişesivdin S. B., Lişesivdin B., Project Supported by Higher Education Institutions, Mg_xZn_{1-x}O/ZnO ve Be_xZn_{1-x}O/ZnO çoklu yapılarını temel alan transistörlerin numerik optimizasyonu, 2012 - 2013
5. Özbay E., TUBITAK Project, SAVS020 Defence Project, 2008 - 2013
6. Lişesivdin S. B., Project Supported by Higher Education Institutions, Investigation of the effects of transition metal palladium on electrical, structural and optical properties of graphene nanoribbons, 2012 - 2012
7. Kasap M., Özçelik S., Lişesivdin S. B., Yıldız A., Aydın S. Ş., TÜBİTAK International Bilateral Joint Cooperation Program Project, MOVPE Growth and Characterization of Epitaxial Germanium for Infrared Photovoltaic and Sensor Applications, 2010 - 2012
8. Özbay E., Lişesivdin S. B., TUBITAK Project, SAVS Defence Project, 2009 - 2011
9. Özçelik S., Mammadov T., Kasap M., TUBITAK Project, Epitaxial Production and Characterization of Infrared AlGaAs Laser Diode Materials, 2008 - 2010
10. Yıldız A., Kasap M., TÜBİTAK International Bilateral Joint Cooperation Program Project, Studies on synthesis and characterization of TiO₂ thin film nanostructures which have applications in ecological physics, 2008 - 2010
11. Özbay E., Lişesivdin S. B., TUBITAK Project, SAVM005 Defence Project, 2006 - 2009

Awards

1. Lişesivdin S. B., TUBA GEBIP Distinguished Young Scientist Award, Türkiye Bilimler Akademisi, February 2017
2. Lişesivdin S. B., Prof. Dr. Şevket Erk Outstanding Young Scientist Award, Türk Fizik Derneği, July 2014

Scholarships

Elektriksel uyarmalı dikey kovuklu yarıiletken seyreltik nitrür optik yükselteçlerin elektriksel ve optik incelemeleri, TUBITAK, 2013 - 2013

AlGaN/GaN Temelli Yüksek Elektron Mobiliteli Transistörlerin (HEMT) Sıcak-Elektron İletim Özelliklerinin İncelenmesi, TUBITAK, 2007 - 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Effect of sulfur concentration on structural, optical and electrical properties of Cu₂CoSnS₄ absorber film for photovoltaic devices**
Senguler G. Y., Narin E. K., LİŞESİVDİN S. B., Serin T.
Physica B: Condensed Matter, vol.648, 2023 (SCI-Expanded)
- 2. Morphological and optical characterizations of different ZnO nanostructures grown by mist-CVD**
NARİN P., Kutlu-Narin E., Kayral S., Tulek R., Gokden S., Teke A., LİŞESİVDİN S. B.
Journal of Luminescence, vol.251, 2022 (SCI-Expanded)
- 3. 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)
- 4. 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)
- 5. 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)
- 6. A novel hot carrier-induced blue light-emitting device**
Mutlu S., Erol A., Arslan E., Ozbay E., Lisesivdin S. B., Tiras E.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.881, 2021 (SCI-Expanded)
- 7. Growth dynamics of mist-CVD grown ZnO nanoplatelets**
Narin P., Kutlu-Narin E., LİŞESİVDİN S. B.
PHYSICA B-CONDENSED MATTER, vol.614, 2021 (SCI-Expanded)
- 8. The effect of barrier layers on 2D electron effective mass in Al_{0.3}Ga_{0.7}N/AlN/GaN heterostructures**
Sonmez F., Ardali S., Lisesivdin S. B., Malin T., Mansurov V., Zhuravlev K., Tiras E.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.33, no.25, 2021 (SCI-Expanded)
- 9. Effect of magnesium content and growth temperature on structural and optical properties of USCVD-grown MgZnO films**
Kutlu-Narin E., Narin P., Yildiz A., Lisesivdin S. B.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.5, 2021 (SCI-Expanded)
- 10. The effect of passivation layer, doping and spacer layer on electron-longitudinal optical phonon momentum relaxation time in Al_{0.3}Ga_{0.7}N/AlN/GaN heterostructures**
Sonmez F., Ardali S., Atmaca G., Lisesivdin S. B., Malin T., Mansurov V., Zhuravlev K., Tiras E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.122, 2021 (SCI-Expanded)
- 11. General-purpose open-source 1D self-consistent Schrodinger-Poisson Solver: Aestimo 1D**
Hebal H., Koziol Z., Lisesivdin S. B., Steed R.
COMPUTATIONAL MATERIALS SCIENCE, vol.186, 2021 (SCI-Expanded)
- 12. 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)

13. **Effects of annealing under different atmospheres on structural and optical properties of USCVD grown ZnO nanostructures**
Kutlu-Narin E., Narin P., Yildiz A., Lisesivdin S. B.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.254, 2020 (SCI-Expanded)
14. **Investigation of electronic and optical properties of wurtzite MgZnO using GGA plus U formalism**
Ibrahim R., NARİN P., Lisesivdin S. B., Ozbay E.
PHILOSOPHICAL MAGAZINE LETTERS, 2019 (SCI-Expanded)
15. **Ab initio study of electronic properties of armchair graphene nanoribbons passivated with heavy metal elements**
NARİN P., Abbas J. M. A., Atmaca G., Kutlu E., LİŞESİVDİN S. B., Ozbay E.
SOLID STATE COMMUNICATIONS, vol.296, pp.8-11, 2019 (SCI-Expanded)
16. **Scattering analysis of ultrathin barrier (< 7nm) GaN-based heterostructures**
NARİN P., Arslan E., Ozturk M., Ozturk M., LİŞESİVDİN S. B., ÖZBAY E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.125, no.4, 2019 (SCI-Expanded)
17. **Electronic properties of zigzag ZnO nanoribbons with hydrogen and magnesium passivations**
Abbas J. M. A., NARİN P., Kutlu E., LİŞESİVDİN S. B., Ozbay E.
PHYSICA B-CONDENSED MATTER, vol.556, pp.12-16, 2019 (SCI-Expanded)
18. **Electronic properties of graphene nanoribbons doped with zinc, cadmium, mercury atoms**
Omeroglu O., Kutlu E., NARİN P., LİŞESİVDİN S. B., Ozbay E.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.104, pp.124-129, 2018 (SCI-Expanded)
19. **Negative Differential Resistance Observation and a New Fitting Model for Electron Drift Velocity in GaN-Based Heterostructures**
Atmaca G., NARİN P., Kutlu E., Malin T. V., Mansurov V. G., Zhuravlev K. S., LİŞESİVDİN S. B., ÖZBAY E.
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.65, no.3, pp.950-956, 2018 (SCI-Expanded)
20. **Electronic and optical properties of black phosphorus doped with Au, Sn and I atoms**
Kutlu E., NARİN P., LİŞESİVDİN S. B., Ozbay E.
PHILOSOPHICAL MAGAZINE, vol.98, no.2, pp.155-164, 2018 (SCI-Expanded)
21. **High Figure-of-Merit(V-BR(2)/R-ON) AlGaN/GaN Power HEMT With Periodically C-Doped GaN Buffer and AlGAN Back Barrier**
Lee J., Ju J., Atmaca G., Kim J., Kang S., Lee Y. S., Lee S., Lim J., Kwon H., LİŞESİVDİN S. B., et al.
IEEE JOURNAL OF THE ELECTRON DEVICES SOCIETY, vol.6, no.1, pp.1179-1186, 2018 (SCI-Expanded)
22. **Structural and optical properties of hexagonal ZnO nanostructures grown by ultrasonic sprayCVD**
NARİN P., Kutlu E., Atmaca G., ATILGAN A., Yildiz A., LİŞESİVDİN S. B.
OPTIK, vol.168, pp.86-91, 2018 (SCI-Expanded)
23. **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)
24. **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)
25. **Electronic structure of beta-Si3N4 crystals with substitutional icosagen group impurities**
Kutlu E., NARİN P., Atmaca G., Sarikavak-Lisesivdin B., LİŞESİVDİN S. B., Ozbay E.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.19, pp.278-282, 2017 (SCI-Expanded)
26. **The effect of doping in different layers on 2DEG for ultrathin-barrier AlN/GaN heterostructures**
Al Abbas J., Narin P., Atmaca G., Kutlu E., Sarikavak-Lisesivdin B., LİŞESİVDİN S. B.
Optoelectronics and Advanced Materials, Rapid Communications, vol.11, pp.328-331, 2017 (SCI-Expanded)

27. **A first principles investigation of the effect of aluminum, gallium and indium impurities on optical properties of beta-Si₃N₄ structure**
 NARİN P., Kutlu E., Atmaca G., LİŞESİVDİN S. B., Ozbay E.
 OPTIK, vol.147, pp.115-122, 2017 (SCI-Expanded)
28. **Effect of substitutional As impurity on electrical and optical properties of beta-Si₃N₄ 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)
29. **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)
30. **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)
31. **Scattering analysis of 2DEG mobility in undoped and doped AlGaN/AlN/GaN heterostructures with an in situ Si₃N₄ passivation layer**
 Atmaca G., Ardali S., Tiras E., Malin T., Mansurov V. G., Zhuravlev K. S., LİŞESİVDİN S. B.
 SOLID-STATE ELECTRONICS, vol.118, pp.12-17, 2016 (SCI-Expanded)
32. **Energy relaxation of hot electrons by LO phonon emission in AlGaN/AlN/GaN heterostructure with in situ Si₃N₄ passivation**
 Atmaca G., Ardali S., NARİN P., Kutlu E., LİŞESİVDİN S. B., Malin T., Mansurov V., Zhuravlev K., Tiras E.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.659, pp.90-94, 2016 (SCI-Expanded)
33. **Evaluation of morphological and chemical differences of gunshot residues in different ammunitions using SEM/EDS technique**
 Kara I., Sarikavak Y., LİŞESİVDİN S. B., KASAP M.
 ENVIRONMENTAL FORENSICS, vol.17, no.1, pp.68-79, 2016 (SCI-Expanded)
34. **The variation of temperature-dependent carrier concentration and mobility in AlGaN/AlN/GaN heterostructure with Si_n passivation**
 Ardali S., Atmaca G., LİŞESİVDİN S. B., Malin T., Mansurov V., Zhuravlev K., Tiras E.
 PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.252, no.9, pp.1960-1965, 2015 (SCI-Expanded)
35. **The Relationship Between the Surface Morphology and Chemical Composition of Gunshot Residue Particles**
 Kara I., LİŞESİVDİN S. B., Kasap M., Er E., Uzek U.
 JOURNAL OF FORENSIC SCIENCES, vol.60, no.4, pp.1030-1033, 2015 (SCI-Expanded)
36. **Energy Relaxation of Electrons in InGaN Quantum Wells**
 Sarikavak-Lisesivdin B., LİŞESİVDİN 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)
37. **Numerical investigation of the 2DEG properties of AlGaN/AlN/GaN HEMT structures with InGaN/GaN MQW back-barrier structure**
 Atmaca G., Tasli P., Karakoc G., Yazbahar E., LİŞESİVDİN S. B.
 PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.65, pp.110-113, 2015 (SCI-Expanded)
38. **Electron Transport Properties of Two-Dimensional Electron Gas in Be_xZn_{1-x}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)
39. **Analytic modeling of temperature dependence of 2D carrier mobility in as-grown and annealed GaInNAs/GaAs quantum well structures**
 DÖNMEZ Ö., SARCAN F., LİŞESİVDİN S. B., Vaughan M. P., EROL A., Gunes M., Arikan M. C., Puustinen J., Guina M.
 SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.29, no.12, 2014 (SCI-Expanded)
40. **Extraction and scattering analyses of 2D and bulk carriers in epitaxial graphene-on-SiC structure**
 LİŞESİVDİN S. B., Atmaca G., Arslan E., Cakmakyapan S., Kazar O., Butun S., Ul-Hassan J., Janzen E., Ozbay E.

- PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.63, pp.87-92, 2014 (SCI-Expanded)
41. **SiC Substrate Effects on Electron Transport in the Epitaxial Graphene Layer**
Arslan E., Cakmakyapan S., Kazar O., Butun S., LİŞESİVDİN S. B., CİNEL N. A., ERTAŞ G., Ardali S., Tiras E., Jawad-ul-Hassan J., et al.
ELECTRONIC MATERIALS LETTERS, vol.10, no.2, pp.387-391, 2014 (SCI-Expanded)
 42. **Optical gain in 1.3- μ m electrically driven dilute nitride VCSOAs**
LİŞESİVDİN S. B., Khan N. A., Mazzucato S., Balkan N., Adams M. J., Korpijarvi V., Guina M., Mezosi G., Sorel M.
NANOSCALE RESEARCH LETTERS, vol.9, 2014 (SCI-Expanded)
 43. **A numerical study on subband structure of In_xAl_{1-x}N/GaN-based HEMT structures with low-indium ($x < 0.10$) barrier layer**
Elibol K., Atmaca G., Tasli P., LİŞESİVDİN S. B.
SOLID STATE COMMUNICATIONS, vol.162, pp.8-12, 2013 (SCI-Expanded)
 44. **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)
 45. **The effect of In_xGa_{1-x}N back-barriers on the dislocation densities in Al_{0.31}Ga_{0.69}N/AlN/GaN/In_xGa_{1-x}N/GaN heterostructures ($0.05 \leq x \leq 0.14$)**
Sarikavak-Lisesivdin B., Lisesivdin S. B., Ozbay E.
CURRENT APPLIED PHYSICS, vol.13, no.1, pp.224-227, 2013 (SCI-Expanded)
 46. **Temperature dependent energy relaxation time in AlGaN/AlN/GaN heterostructures**
Tiras E., Celik O., Mutlu S., Ardali S., LİŞESİVDİN S. B., ÖZBAY E.
SUPERLATTICES AND MICROSTRUCTURES, vol.51, no.6, pp.733-744, 2012 (SCI-Expanded)
 47. **Determination of the LO phonon energy by using electronic and optical methods in AlGaN/GaN**
Celik O., Tiras E., Ardali S., LİŞESİVDİN S. B., ÖZBAY E.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.10, no.2, pp.485-491, 2012 (SCI-Expanded)
 48. **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)
 49. **Numerical optimization of In-mole fractions and layer thicknesses in Al_xGa_{1-x}N/AlN/GaN high electron mobility transistors with InGaN back barriers**
Kelekci O., LİŞESİVDİN S. B., Ozcelik S., Ozbay E.
Physica B: Condensed Matter, vol.406, no.8, pp.1513-1518, 2011 (SCI-Expanded)
 50. **Grain Boundary Related Electrical Transport in Al-rich Al_xGa_{1-x}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)
 51. **Improvement of breakdown characteristics in AlGaN/GaN/Al_xGa_{1-x}N HEMT based on a grading Al_xGa_{1-x}N buffer layer**
Yu H., LİŞESİVDİN S. B., Bolukbas B., Kelekci O., Ozturk M. K., ÖZÇELİK S., Caliskan D., Ozturk M., Cakmak H., Demirel P., et al.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.207, no.11, pp.2593-2596, 2010 (SCI-Expanded)
 52. **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)
 53. **The substrate temperature dependent electrical properties of titanium dioxide thin films**
Yildiz A., LİŞESİVDİN S. B., Kasap M., Mardare D.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.21, no.7, pp.692-697, 2010 (SCI-Expanded)
 54. **Scattering analysis of two-dimensional electrons in AlGaN/GaN with bulk related parameters extracted by simple parallel conduction extraction method**

- Lişesivdin S. B., Yildiz A., Balkan N., Kasap M., Ozcelik S., Ozbay E.
JOURNAL OF APPLIED PHYSICS, vol.108, no.1, 2010 (SCI-Expanded)
55. **Double subband occupation of the two-dimensional electron gas in $\text{In}_x\text{Al}_{1-x}\text{N}/\text{AlN}/\text{GaN}/\text{AlN}$ heterostructures with a low indium content ($0.064 \leq x \leq 0.140$) barrier**
LİŞESİVDİN S. B., Tasli P., Kasap M., Ozturk M., Arslan E., Ozcelik S., Ozbay E.
THIN SOLID FILMS, vol.518, no.19, pp.5572-5575, 2010 (SCI-Expanded)
56. **Determination of the critical indium composition corresponding to the metal-insulator transition in $\text{In}_x\text{Ga}_{1-x}\text{N}$ ($0.06 \leq x \leq 0.135$) layers**
Yildiz A., LİŞESİVDİN S. B., Tasli P., Ozbay E., Kasap M.
CURRENT APPLIED PHYSICS, vol.10, no.3, pp.838-841, 2010 (SCI-Expanded)
57. **Analysis of defect related optical transitions in biased AlGaN/GaN heterostructures**
Bengi A., LİŞESİVDİN S. B., Kasap M., Mammadov T., Ozcelik S., Ozbay E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.13, no.2, pp.105-108, 2010 (SCI-Expanded)
58. **Mobility limiting scattering mechanisms in nitride-based two-dimensional heterostructures with the InGaN channel**
Gokden S., Tulek R., Teke A., Leach J. H., Fan Q., Xie J., Ozgur U., Morkoc H., LİŞESİVDİN S. B., Ozbay E.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.25, no.4, 2010 (SCI-Expanded)
59. **Investigation of low-temperature electrical conduction mechanisms in highly resistive GaN bulk layers extracted with Simple Parallel Conduction Extraction Method**
Yildiz A., LİŞESİVDİN S. B., Kasap M., Ozcelik S., Ozbay E., Balkan N.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.98, no.3, pp.557-563, 2010 (SCI-Expanded)
60. **Well parameters of two-dimensional electron gas in $\text{Al}_{0.88}\text{In}_{0.12}\text{N}/\text{AlN}/\text{GaN}/\text{AlN}$ heterostructures grown by MOCVD**
Tasli P., LİŞESİVDİN S. B., Yildiz A., Kasap M., Arslan E., Ozcelik S., Ozbay E.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.45, no.2, pp.133-139, 2010 (SCI-Expanded)
61. **Contributions of impurity band and electron-electron interactions to magnetoconductance in AlGaN**
Tasli P., Yildiz A., Kasap M., Ozbay E., LİŞESİVDİN S. B., Ozcelik S.
PHILOSOPHICAL MAGAZINE, vol.90, no.26, pp.3591-3599, 2010 (SCI-Expanded)
62. **Electrical conduction properties of Si delta-doped GaAs grown by MBE**
Yildiz A., LİŞESİVDİN S. B., Altuntas H., Kasap M., Ozcelik S.
PHYSICA B-CONDENSED MATTER, vol.404, no.21, pp.4202-4206, 2009 (SCI-Expanded)
63. **Effect of various pseudomorphic AlN layer insertions on the electron densities of two-dimensional electron gas in lattice-matched $\text{In}_{0.18}\text{Al}_{0.82}\text{N}/\text{GaN}$ based heterostructures**
LİŞESİVDİN S. B., Ozbay E.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.3, no.9, pp.904-909, 2009 (SCI-Expanded)
64. **DX-center energy calculation with quantitative mobility spectrum analysis in n-AlGaAs/GaAs structures with low Al content**
LİŞESİVDİN S. B., Altuntas H., Yildiz A., Kasap M., Ozbay E., Ozcelik S.
SUPERLATTICES AND MICROSTRUCTURES, vol.45, no.6, pp.604-611, 2009 (SCI-Expanded)
65. **The effect of AlN interlayer thicknesses on scattering processes in lattice-matched AlInN/GaN two-dimensional electron gas heterostructures**
Teke A., Goekden S., Tuelek R., Leach J. H., Fan Q., Xie J., Oezgur U., Morkoc H., LİŞESİVDİN S. B., Ozbay E.
NEW JOURNAL OF PHYSICS, vol.11, 2009 (SCI-Expanded)
66. **Non-adiabatic small polaron hopping conduction in Nb-doped TiO₂ thin film**
Yildiz A., LİŞESİVDİN S. B., Kasap M., Mardare D.
PHYSICA B-CONDENSED MATTER, vol.404, pp.1423-1426, 2009 (SCI-Expanded)
67. **Large zero-field spin splitting in AlGaN/AlN/GaN/AlN heterostructures**
LİŞESİVDİN S. B., Balkan N., Makarovskiy O., Patane A., Yildiz A., Caliskan M. D., Kasap M., Ozcelik S., Ozbay E.
JOURNAL OF APPLIED PHYSICS, vol.105, no.9, 2009 (SCI-Expanded)
68. **Numerical optimization of Al-mole fractions and layer thicknesses in normally-on AlGaN-GaN**

double-channel high electron mobility transistors (DCHEMTs)

Atmaca G., Elibol K., LİŞESİVDİN S. B., Kasap M., Ozbay E.

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.11, no.5, pp.578-582, 2009 (SCI-Expanded)

69. **Electronic transport in n- and p-type modulation doped $GaxIn_{1-x}NyAs_{1-y}/GaAs$ quantum wells**

Sun Y., Balkan N., Aslan M., LİŞESİVDİN S. B., Carrere H., Arikan M. C., Marie X.

JOURNAL OF PHYSICS-CONDENSED MATTER, vol.21, no.17, 2009 (SCI-Expanded)

70. **A simple parallel conduction extraction method (SPCEM) for MODFETs and undoped GaN-based HEMTs**

LİŞESİVDİN S. B., Balkan N., Ozbay E.

MICROELECTRONICS JOURNAL, vol.40, no.3, pp.413-417, 2009 (SCI-Expanded)

71. **Anomalous temperature dependence of the electrical resistivity in $In_{0.17}Ga_{0.83}N$**

Yildiz A., LİŞESİVDİN S. B., Kasap M., Bosi M.

SOLID STATE COMMUNICATIONS, vol.149, pp.337-340, 2009 (SCI-Expanded)

72. **Electrical properties of $TiO(2)$ thin films**

Yildiz A., LİŞESİVDİN S. B., Kasap M., Mardare D.

JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.354, pp.4944-4947, 2008 (SCI-Expanded)

73. **Growth parameter investigation of $Al_{0.25}Ga_{0.75}N/GaN/AlN$ heterostructures with Hall effect measurements**

LİŞESİVDİN S. B., Demirezen S., Caliskan M. D., Yildiz A., Kasap M., Ozcelik S., Ozbay E.

SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.23, no.9, 2008 (SCI-Expanded)

74. **The persistent photoconductivity effect in $AlGaN/GaN$ heterostructures grown on sapphire and SiC substrates**

Arslan E., Butun S., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S., ÖZBAY E.

JOURNAL OF APPLIED PHYSICS, vol.103, no.10, 2008 (SCI-Expanded)

75. **Determination of two-dimensional electron and hole gas carriers in $AlGaN/GaN/AlN$ heterostructures grown by Metal Organic Chemical Vapor Deposition**

ACAR S., LİŞESİVDİN S. B., Kasap M., Oezcelik S., Oezbay E.

THIN SOLID FILMS, vol.516, no.8, pp.2041-2044, 2008 (SCI-Expanded)

76. **Stokes shift and band gap bowing in $In_xGa_{1-x}N$ ($0.060 \leq x \leq 0.105$) grown by metalorganic vapour phase epitaxy**

Yildiz A., Dagdelen F., ACAR S., LİŞESİVDİN S. B., Kasap M., AYDOĞDU Y., Bosi M.

ACTA PHYSICA POLONICA A, vol.113, no.2, pp.731-739, 2008 (SCI-Expanded)

77. **Self-consistent scattering analysis of $Al_{0.2}Ga_{0.8}N/AlN/GaN/AlN$ heterostructures grown on 6H-SiC substrates using photo-Hall effect measurements**

LİŞESİVDİN S. B., Arslan E., Kasap M., Ozcelik S., Ozbay E.

JOURNAL OF PHYSICS-CONDENSED MATTER, vol.20, no.4, 2008 (SCI-Expanded)

78. **The effect of strain relaxation on electron transport in undoped $Al_{0.25}Ga_{0.75}N/GaN$ heterostructures**

LİŞESİVDİN S. B., Yildiz A., ACAR S., Kasap M., Oezcelik S., Oezbay E.

PHYSICA B-CONDENSED MATTER, vol.399, no.2, pp.132-137, 2007 (SCI-Expanded)

79. **Electron transport in Ga-rich $In_xGa_{1-x}N$ alloys**

Yildiz A., LİŞESİVDİN S. B., ACAR S., Kasap M., Bosi M.

CHINESE PHYSICS LETTERS, vol.24, no.10, pp.2930-2933, 2007 (SCI-Expanded)

80. **Electronic transport characterization of $AlGaN/GaN$ heterostructures using quantitative mobility spectrum analysis**

LİŞESİVDİN S. B., Yildiz A., ACAR S., Kasap M., Ozcelik S., Ozbay E.

APPLIED PHYSICS LETTERS, vol.91, no.10, 2007 (SCI-Expanded)

81. **Scattering analysis of 2DEG carrier extracted by QMSA in undoped $Al_{0.25}Ga_{0.75}N/GaN$ heterostructures**

LİŞESİVDİN S. B., ACAR S., Kasap M., Ozcelik S., Gokden S., Ozbay E.

SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.22, no.5, pp.543-548, 2007 (SCI-Expanded)

82. **High temperature variable-range hopping conductivity in undoped TiO₂ thin film**
Yildiz A., LİŞESİVDİN S. B., Kasap M., Mardare D.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.1, no.10, pp.531-533, 2007 (SCI-Expanded)
83. **Optimization of alloy composition, interlayer and barrier thicknesses in Al_xGa_{1-x}N/(AlN)/GaN high electron mobility transistors**
LİŞESİVDİN S. B., Yildiz A., Kasap M.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.1, no.9, pp.467-470, 2007 (SCI-Expanded)

Books & Book Chapters

1. **Nanoteknoloji Devrimini Anlamak**
LİŞESİVDİN B., LİŞESİVDİN S. B.
Nobel Yayınevi, 2014

Refereed Congress / Symposium Publications in Proceedings

1. **Quantum Materials Science and NV-center-based systems dor future Quantum Computers**
LİŞESİVDİN S. B.
2nd International Conference on Informatics and Computer Science, Ankara, Turkey, 01 December 2022
2. **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
3. **Density Functional Theory Investigation of the Interaction of CO molecule with CuO Nanolayer Defect Centers**
Turhan P., LİŞESİVDİN S. B.
9th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 September 2022, pp.148
4. **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
5. **Growth and Structural Properties of ZnO Materials by Mist CVD Enhanced by Corona Discharge Plasma**
NARİN P., Kutlu-Narin E., LİŞESİVDİN S. B.
9th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 September 2022, pp.86
6. **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
7. **MgZnO Thin Films by Mist-CVD Grown: Structural and Optical Properties**
Kutlu-Narin E., NARİN P., LİŞESİVDİN S. B.
9th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 September 2022, pp.100
8. **Sigma Vectors in Nodal Aberration Theory for High-Precision Telescope Alignment**
Yeşiltepe M., Arpa E., LİŞESİVDİN S. B., KARCI Ö.

Fotonik 2022, Ankara, Turkey, 09 September 2022

9. **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
10. **Determination of Structural and Electrical Properties of ZnO Thin Films Grown By Mist-Cvd Method on Sapphire with Different Orientations**
Yayla M., LİŞESİVDİN S. B., KASAP M.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 01 September 2021, pp.236
11. **Structural and Optical Properties of ZnO Nanoplatelet Structure Grown by Mist-CVD**
NARİN P., Kutlu-Narin E., LİŞESİVDİN S. B.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 01 September 2021, pp.240
12. **A First Principle Calculations of Monolayer InSe Impurity with Pd, Pt, Ag, and Au**
Abbas J. M. A., NARİN P., LİŞESİVDİN S. B., ÖZBAY E.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 01 September 2021, pp.239
13. **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
14. **Spin-coherence time measurements of NV- centers in ^{15}N , $^{15}\text{N}_2$ and O implanted diamond**
LİŞESİVDİN S. B., Lang J., Jelezko F.
Quantum Optics and Informatics Meeting – 4 (Kobit 4), İzmir, Turkey, 14 - 15 May 2020
15. **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
16. **Structural and Optical Properties of $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ Nanostructures Depending on Growth Temperatures**
Kutlu E., NARİN P., YILDIZ A., LİŞESİVDİN S. B.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, pp.31
17. **Optical and Structural Properties of ZnO Grown by Mist CVD Using Different Precursor Molarity**
NARİN P., Kutlu E., LİŞESİVDİN S. B.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, pp.28
18. **First-Principles Calculation of Optical Properties of Magnesium Zinc Oxide**
Ibrahim R., NARİN P., LİŞESİVDİN S. B., ÖZBAY E.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, pp.14
19. **First Principle Study of ZnO Nanoribbon Passivated with H and Mg**
Abbas J. M. A., NARİN P., Kutlu E., LİŞESİVDİN S. B., ÖZBAY E.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, pp.37
20. **Growth of ZnO Nanostructures on Sapphire by Ultrasonic Spray CVD**
NARİN P., Kutlu E., LİŞESİVDİN S. B.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, pp.29
21. **An Investigation on Lifetime of Hot Phonons in GaN-Based Heterostructures**
Atmaca G., NARİN P., Kutlu E., Ardalı Ş., TIRAŞ E., Malin T. V., Mansurov V. G., Zhuravlev K. S., LİŞESİVDİN S. B., ÖZBAY E.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, pp.68
22. **Effect of Transducer Power on Optical and Structural Properties of ZnO Nanostructures**
Kutlu E., NARİN P., YILDIZ A., LİŞESİVDİN S. B.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, pp.30
23. **The Optical Properties of Group-III Nitrides with LDA-1/2 Approximation**
Ömeroğlu Ö., LİŞESİVDİN S. B., ÖZBAY E.
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, pp.78

24. **Improvement of the Theoretical Band Gaps for AlN, GaN and InN with LDA-1/2 Approach**
Ömeroğlu Ö., LİŞESİVDİN S. B., ÖZBAY E.
Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 09 September 2018, pp.495
25. **The Electronic Properties of Asymmetrical Armchair Boron Nitride Nanoribbons With Germanium Termination**
Ömeroğlu Ö., LİŞESİVDİN S. B., ÖZBAY E.
Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 09 September 2018, pp.475
26. **Back-Side Via Etching Application of SiC for GaN-Based Transistors**
haliloglu m. t., LİŞESİVDİN S. B., ÖZBAY E.
1st Light and Light-Based Technologies Workshop, Ankara, Turkey, 15 May - 15 August 2018, pp.51
27. **Hot electron transport based devices for optoelectronics**
EROL A., MUTLU S., LİŞESİVDİN S. B., TIRAŞ E.
International Conference on Condensed Matter and Materials Science, 11 - 15 October 2017
28. **The Effect of Zinc, Cadmium and Hydrogen Terminations on The Electronic Structure of Symetrical AGNRs**
Narin P., J. M. A. A., LİŞESİVDİN S. B., ÖZBAY E.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.648
29. **First Principle Calculations of Zn and Cd-Doped Zigzag Graphene Nanoribbons**
Kutlu E., Ömeroğlu Ö., İbrahim R., LİŞESİVDİN S. B., ÖZBAY E.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.611
30. **Numerical Optimization of 2DEG Improvement in AlGaIn/GaN HEMTs with C-GaN/u-GaN Multi-layer Buffer Structure**
Atmaca G., Kim J. G., Lee J. H., Won C. H., Kang S. H., LİŞESİVDİN S. B., Lee J. H.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.629
31. **High Voltage Low Leakage Current AlGaIn/GaN HEMTs with Multi-layer Buffer and AlGaIn Back-Barrier Structure**
Lee J. H., Atmaca G., Kim J. G., Son D. H., Ju J. M., LİŞESİVDİN S. B., Lee J. H.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.310
32. **Optimized Ab Initio Studies on Electronic Structure of Wurtzite MgZnO**
İbrahim R., Narin P., LİŞESİVDİN S. B., ÖZBAY E.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.630
33. **Investigation of The Electronic Properties of Zinc and Magnesium Adsorption on Graphene Sheets**
Ömeroğlu Ö., Kutlu E., LİŞESİVDİN S. B., ÖZBAY E.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.620
34. **A Theoretical Study of (5,0) Zigzag BeZn1-Xo Nanotubes: Investigation of Structural, Electronic and Optic Properties Using Density Functional Theory**
Kuloğlu A. F., LİŞESİVDİN S. B., ÖZBAY E.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.588
35. **A First Principle Investigations of The Electronic Structures For ZGNRs Terminated With Zn, Cd and H**
J. M. A. A., Narin P., LİŞESİVDİN S. B., ÖZBAY E.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.587
36. **Zn ve Cd Atomları ile Katkılanmış "Armchair" Grafen Nanoşeritlerin Elektronik Yapıları**
LİŞESİVDİN S. B., Kutlu E., J. M. A. A., Ömeroğlu Ö., İbrahim R., ÖZBAY E.
ADIM FİZİK GÜNLERİ VI, Balıkesir, Turkey, 19 - 21 July 2017, pp.152
37. **Evolution of HELLSH devices: Colurful story of HELLSH Devices from IR to VIS light**
MUTLU S., TIRAŞ E., EROL A., LİŞESİVDİN S. B.
The Physics of Optoelectronic Materials and Devices, 27 - 28 March 2017
38. **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
39. **Ultraince 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
40. **Ultraince Bariyere Sahip AlN 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
41. **The Weak Localization in a Two Dimensional Electron Gas in AlInN AlN GaN Heterostructures**
ATMACA G., IGOR B., MIRONOV O. A., ROGACKI K., LİŞESİVDİN S. B., ÖZBAY E.
18. Ulusal Optik, Elektro-optik ve Fotonik Çalıştayı, Ankara, Turkey, 23 September 2016
42. **Sn I Au gibi Bazı Safsızlıkların Siyah Fosfor un Elektronik ve Optik Özelliklerine Etkileri**
KUTLU E., NARİN P., ATMACA G., LİŞESİVDİN S. B., ÖZBAY E.
18. Ulusal Optik, Elektro-optik ve Fotonik Çalıştayı, Ankara, Turkey, 23 September 2016
43. **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
44. **P tipi ve N tipi InGaN Arka Bariyerli Ultraince AlInN GaN Çoklu Yapılarda İki Boyutlu Elektron Gazı**
AlAbbas J., Narin P., Kutlu E., Atmaca G., LİŞESİVDİN S. B., LİŞESİVDİN B.
ADIM Physics Congress V, Turkey, 21 - 23 April 2016, vol.163
45. **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
46. **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
47. **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
48. **The Effect of Si₃N₄ Passivation with As Impurity on the Device Properties of AlGa_xN GaN HEMT Structures**
Atmaca G., Narin P., Kutlu E., LİŞESİVDİN S. B.
IX. Uluslararası Balkan Fizik Birliği Konferansı, 24 - 27 August 2015
49. **Power loss Mechanisms in Surface Passivated AlGa_xN AlN GaN Heterojunctions**
TIRAŞ E., Atmaca G., LİŞESİVDİN S. B., Ardali Ş., Malin T., Mansurov V., Zhuravlev K.
OSA 2015 Conference on Lasers and Electro-Optics Pacific Rim, Busan, South Korea, 24 - 28 August 2015
50. **The Effect of in situ Si₃N₄ Passivation on 2DEG Quantum Well Parameters in AlGa_xN GaN Heterostructures**
LİŞESİVDİN S. B., Atmaca G., Ardali Ş., TIRAŞ E., Malin T., Mansurov V., Zhuravlev K.
IX. Uluslararası Balkan Fizik Birliği Konferansı, 24 - 27 August 2015
51. **The effect of in situ Si₃N₄ passivation on hot electron energy relaxation rates in AlGa_xN GaN Hetrostructures**
Atmaca G., Malin T., Kutlu E., Ardali Ş., Narin P., Mansurov V., LİŞESİVDİN B., LİŞESİVDİN S. B., TIRAŞ E., Zhuravlev K.
GaN InN AlN 2015, 23 - 25 May 2015
52. **The Longitudinal Optical Phonon Energy in Passivated AlGa_xN AlN GaN**
Tıraş T., Ardali Ş., Atmaca G., LİŞESİVDİN S. B., Malin T., Mansurov V., Zhuravlev K., TIRAŞ E.
E-MRS 2015 Spring Meeting, 11 - 15 May 2015
53. **Surface Passivation Effect in AlGa_xN AlN GaN Heterostructure**
Ardali Ş., Atmaca G., LİŞESİVDİN S. B., Malin T., Mansurov V., Zhuravlev K., TIRAŞ E.
E-MRS 2015 Spring Meeting, 11 - 15 May 2015

54. **Investigation of Optical Properties of the Beta Si₃N₄ 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
55. **First Principle Calculations of Electrical Properties of Insulator Wurtzite Beta Si₃N₄ 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
56. **Investigation of Optical Properties of the Si₃N₄ 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
57. **First Principle Calculations of Electrical Properties of Insulator Wurtzite the Si₃N₄ 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
58. **The Effect of In Situ Si₃N₄ Passivation on Hot Electron energy Relaxation Rates in AlGa_xGaN Heterostructures**
Atmaca G., Malin T., Kutlu E., Ardalı 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
59. **Ab initio study of oxygen and arsenic impurities on non-linear optical properties of β-Si₃N₄ 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
60. **Implementation of Simple Parallel Conduction Extraction Method (SPCEM) for seperating 2D and 3D conduction channels in semiconductor structures**
LİŞESİVDİN S. B.
Конференция И Школа Молодых Учёных По Актуальным Проблемам Физики Полупроводниковых Структур, Novosibirsk, Russia, 15 September 2014, pp.25
61. **Influence of interface traps on device performance of AlGa_xGaN/GaN HEMTs with Si₃N₄ passivation**
Atmaca G., Evrensel A. E., LİŞESİVDİN S. B.
Turkish Physical Society 31th International Physics Congress, Muğla, Turkey, 21 July 2014, pp.371
62. **Investigation of electrical properties of two dimensional hole gas in hybrid InGa_xN/ZnO heterostructure**
Kutlu E., NARİN P., Atmaca G., LİŞESİVDİN S. B., KASAP M.
Turkish Physical Society 31th International Physics Congress, Muğla, Turkey, 21 July 2014, pp.401
63. **Investigation of the effect of the arsenic impurity on the electronic and optical properties of β-Si₃N₄ 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
64. **Effects of ultrathin InGa_xN channel layer on two dimensional electron gas in hybrid GaN/InGa_xN/ZnO heterostructures**
NARİN P., Atmaca G., LİŞESİVDİN S. B.
Turkish Physical Society 31th International Physics Congress, Muğla, Turkey, 21 July 2014, pp.406
65. **SiC üzerine büyütülen grafen yapılarında elektriksel iletim kanallarının ayrıştırılıp incelenmesi**
LİŞESİVDİN S. B., Atmaca G., ARSLAN E., Ul-Hassan J., Janzen E., ÖZBAY E.
19. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 20 December 2013, pp.13
66. **Gain in electrically-driven 1.3 um dilute nitride VCISOAs**
LİŞESİVDİN S. B., Khan N. A., Mazzucato S., Balkan N., Adams M. J.
COST MP0805 Final Meeting, İstanbul, Turkey, 24 September 2013, pp.17
67. **Scattering Analysis of 2DEG in AlIn_xN/GaN Based Heterostructures With GaN and InGa_xN Quantum Wells**

- NARİN P., ATMACA G., BOYALI E., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S.
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013
68. **A Numerical Investigation on Electronic Properties of Two Dimensional Electron Gas in $\text{Be}_x\text{Zn}_{1-x}\text{O}/\text{ZnO}$ 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
69. **The Investigation of Temperature Dependent Electrical Transport Properties of $\text{In}_x\text{Ga}_{1-x}\text{P}/\text{GaAs}$**
BOYALI E., NARİN P., ATMACA G., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S.
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013
70. **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
71. **Electron Confinement in Lattice-Matched $\text{InAlN}/\text{AlN}/\text{GaN}$ Heterostructures with $\text{Al}_y\text{Ga}_{1-y}\text{N}$ Back-barrier**
Atmaca G., TUNAY TAŞLI P., LİŞESİVDİN S. B.
8th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 25 - 29 June 2012, pp.332
72. **InAlN/GaN Temelli Yüksek Elektron Mobiliteli Transistörlerin (HEMT) Elektron ve Magneto İletim Özellikleri**
TUNAY TAŞLI P., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S., ÖZBAY E.
ADIM Physics Congress II, Denizli, Turkey, 25 - 27 April 2012, pp.65
73. **$\text{AlGaIn}/\text{GaIn}$ -temelli Yüksek Hareketliliğe Sahip Transistorlerde InGaIn Geribariyerin Dislokasyon Yoğunluğuna Etkisi**
LİŞESİVDİN B., LİŞESİVDİN S. B., ÖZBAY E.
ADIM Physics Congress II, Denizli, Turkey, 25 - 27 April 2012, pp.131
74. **GaIn -tabanlı HEMT Yapıların Hareketliliği ve Tasiyici Yoğunluğunun Deneysel İncelenmesi**
Güneş C., Kuloğlu A. F., LİŞESİVDİN S. B., ÖZBAY E.
1. Yoğun Madde Fiziği İzmir Toplantısı, İzmir, Turkey, 06 April 2012, pp.18
75. **Kenarları Paladyum Atomları ile Sonlandırılmış Farklı Genişliklerdeki Armchair Grafen Nanoseritlerin Elektronik Özelliklerinin Yoğunluk Fonksiyonu Teorisi Kullanılarak İncelenmesi**
Kuloğlu A. F., Alsancak B., Güneş C., LİŞESİVDİN S. B., ÖZBAY E.
1. Yoğun Madde Fiziği İzmir Toplantısı, İzmir, Turkey, 06 April 2012, pp.1
76. **Numerical Investigation of Two-dimensional Electron Gas in $\text{AlGaIn}/\text{AlIn}/\text{GaIn}$ HEMT with $\text{InGaIn}/\text{GaIn}$ Multi-quantum Well Structure**
Karakoç G., Atmaca G., Yazbahar E., TUNAY TAŞLI P., LİŞESİVDİN S. B.
Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.745
77. **A Numerical Study on Effects of $\text{InAlIn}/\text{AlGaIn}$ Barrier in $\text{InAlIn}/\text{AlGaIn}/\text{AlIn}/\text{GaIn}$ -based High Electron Mobility Transistors**
Elibol K., Güneş C., Kuloğlu A. F., Boyalı E., LİŞESİVDİN S. B.
Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.711
78. **Self-consistent Transport Properties of Graphene Sheets**
Elibol K., Atmaca G., Keleşçi Ö., TUNAY TAŞLI P., ÖZBAY E., LİŞESİVDİN S. B.
Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.710
79. **Determination of the in-plane effective mass and quantum lifetime of 2D electrons in $\text{AlGaIn}/\text{GaIn}$ based HEMTs**
Celik O., Tiras E., Ardali S., LİŞESİVDİN S. B., ÖZBAY E.
3rd International Symposium on Growth of III-Nitrides (ISGN), Montpellier, France, 4 - 07 July 2010, vol.8
80. **InGaIn arka bariyerli $\text{Al}_x\text{Ga}_{1-x}\text{N}/\text{AlIn}/\text{GaIn}$ HEMT yapılarındaki ince filmlerin alaşım oranları ve kalınlıklarının nümerik optimizasyonu**
Keleşçi Ö., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S., ÖZBAY E.
17. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 October 2010, pp.17
81. **Ekleme Alan Etkili Transistörlerin Elektriksel Karakteristiklerinin İncelenmesi**

- Atmaca G., Elibol K., TUNAY TAŞLI P., LİŞESİVDİN S. B., KASAP M.
17. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 October 2010, pp.12
82. **Grafen Flake Üretim Yöntemlerinin Geliştirilmesi**
Elibol K., Kelekçi Ö., Atmaca G., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S., ÖZBAY E.
17. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 October 2010, pp.2
83. **Erbiyum Katkılı Eklem Diyotun I-V Karakteristiği**
Kartaloğlu O., Atmaca G., Elibol K., LİŞESİVDİN S. B.
17. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 October 2010, pp.46
84. **GaAs Tabanlı Bir MOSFET Yapının 2-Boyutta Akım – Gerilim Karakteristiklerinin İncelenmesi**
Kuloğlu A. F., LİŞESİVDİN S. B., KASAP M.
17. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 October 2010, pp.88
85. **GaN Tabanlı MESFET Yapıların 2-boyutta Elektriksel Karakteristikleri**
Elibol K., Atmaca G., TUNAY TAŞLI P., LİŞESİVDİN S. B., KASAP M.
17. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 October 2010, pp.34
86. **Double Heterostructure AlGaN/GaN/AlGaN HEMT Based on Grading AlGaN/AlN Buffer Layer**
Yu H., LİŞESİVDİN S. B., Bölükbaş B., Kelekçi Ö., Öztürk M., Çakmak H.
2009 MRS Fall Meeting, I: III-Nitride Materials for Sensing, Energy Conversion, and Controlled Light-Matter Interactions, SESSION I4: Surface and Interface Properties II, Boston, United States Of America, 29 November - 03 December 2009, pp.4
87. **Safir ve SiC Üzerine Büyütülmüş AlGaN/AlN/GaN HEMT Yapılardaki Sıcak Elektron Dinamiğinin Karşılaştırılması**
İlgaz A., Gökden S., Teke A., Özçelik S., Lişesivdin B., Özbay E.
16. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 06 November 2009, pp.73
88. **Sicakliga ve manyetik alana bagli Hall olcumlerinin analizi ile DX-merkezi aktivasyon enerjisi hesabi**
LİŞESİVDİN S. B., ALTUNTAŞ H., YILDIZ A., KASAP M., ÖZBAY E., ÖZÇELİK S.
16. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 06 October 2009, pp.9
89. **Cift kanalli AlGaAs/InGaAs/GaAs tabanlı p-HEMT Yapılarında 1 ve 2-boyutta Schrödinger-Poisson Cozumleri ve Akim-Gerilim Incelemeleri**
Atmaca G., Elibol K., TUNAY TAŞLI P., LİŞESİVDİN S. B., KASAP M.
16. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 06 October 2009, pp.59
90. **Safir ve SiC Uzerine Buyutulmus AlGaN/AlN/GaN HEMT Yapilarindaki Sicak Elektron Dinamiginin Karsilastirilmesi**
ILGAZ A., GÖKDEN S., TEKE A., ÖZÇELİK S., LİŞESİVDİN S. B., ÖZBAY E.
16. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 06 October 2009, pp.73
91. **Determination of Two-Dimensional Electron and Hole Gas Carriers in Al_{0.88}In_{0.12}N/GaN-based Heterostructures Grown by Metal Organic Chemical Vapor Deposition**
TUNAY TAŞLI P., LİŞESİVDİN S. B., YILDIZ A., KASAP M., ÖZBAY E.
Turkish Physical Society 26th International Physics Congress, Muğla, Turkey, 24 - 27 September 2009, pp.510
92. **A Numerical Study on Subband Structure of Al_xIn_{1-x}N/GaN-based HEMT Structures with Low-Indium (>0.82) Barrier Layer**
TUNAY TAŞLI P., LİŞESİVDİN S. B., KASAP M., Elibol K., Atmaca G., ÖZBAY E.
Turkish Physical Society 26th International Physics Congress, Muğla, Turkey, 24 - 27 September 2009, pp.509
93. **Investigation of the Beating Pattern of Shubnikov-De Haas Oscillations and Spin Splitting in AlGaN/AlN/GaN/AlN Heterostructures**
LİŞESİVDİN S. B., Balkan N., Makarovskiy O., Patane A., YILDIZ A., Çalışkan M. D., KASAP M., ÖZÇELİK S., ÖZBAY E.
Turkish Physical Society 25th International Physics Congress, Muğla, Turkey, 25 - 29 August 2008, pp.484
94. **Optimization of Al-mole Fraction and Layer Thicknesses in Al_xGa_{1-x}N/AlN/GaN/Al_xGa_{1-x}N/AlN/GaN Double Channel HEMT Structure**
Elibol K., Atmaca G., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S.
Turkish Physical Society 25th International Physics Congress, Muğla, Turkey, 25 - 29 August 2008, pp.454
95. **Small Polaron Transport In Titanium Dioxide Thin Film**

YILDIZ A., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S., Mardare D.

Turkish Physical Society 25th International Physics Congress, Muğla, Turkey, 25 - 29 August 2008, pp.133

96. **On the conduction mechanism of TiO₂**
YILDIZ A., Eker S., LİŞESİVDİN S. B., KASAP M., ÖZÇELİK S., Mardare D.
8th International Conference on Physics of Advanced Materials, Iasi, Romania, 4 - 07 June 2008, pp.28
97. **A Simple Parallel Conduction Extraction Method for MODFET's and Undoped GaN-based HEMTs**
LİŞESİVDİN S. B., Balkan N., ÖZBAY E.
Workshop on Recent Advances of Low Dimensional Structures and Devices, Nottingham, United Kingdom, 7 - 09 April 2008, pp.90
98. **MBE Growth and Characterization of n-AlGaAs/GaAs Heterojunction**
ALTUNTAŞ H., LİŞESİVDİN S. B., YILDIZ A., Mammedov T., ÖZÇELİK S.
Turkish Physical Society 24th International Physics Congress, Malatya, Turkey, 28 - 31 August 2007, pp.414
99. **Stokes shift in In_{0.13}Ga_{0.87}N epitaxial layer grown by MOVPE**
YILDIZ A., ALTUNTAŞ H., LİŞESİVDİN S. B., Bengi A., KASAP M.
Turkish Physical Society 24th International Physics Congress, Malatya, Turkey, 28 - 31 August 2007, pp.152
100. **Electrical Conductivity Behaviour in Anatase Phase TiO₂**
YILDIZ A., LİŞESİVDİN S. B., ACAR S., KASAP M., Mardare D.
NanoTr3 Conference Proceedings, Ankara, Turkey, 11 - 14 June 2007, pp.151
101. **Improved Scattering Analysis of 2DEG carriers in Al_{0.25}Ga_{0.75}N/GaN Heterostructures**
LİŞESİVDİN S. B., YILDIZ A., ACAR S., KASAP M., ÖZÇELİK S., GÖKDEN S., ÖZBAY E.
NanoTr3 Conference Proceedings, Ankara, Turkey, 11 - 14 June 2007, pp.134
102. **Strain calculations from hall measurements in undoped Al_{0.25}Ga_{0.75}N/GaN HEMT structures**
LİŞESİVDİN S. B., Yildiz A., Kasap M., Oezbay E.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.623
103. **Simulation of the interfacial AlN layer on band structures and carrier densities of AlGaN/GaN HEMT structures**
LİŞESİVDİN S. B., Kasap M.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.622
104. **Mole fraction dependence of mobility in In_xGa_{1-x}N alloys**
Yildiz A., LİŞESİVDİN S. B., ACAR S., Kasap M.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.670
105. **Activation mechanism in InGaN grown by MOVPE**
Yildiz A., LİŞESİVDİN S. B., ACAR S., Kasap M.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.671
106. **Transport properties of the 2DEG and minority carriers in AlGaN/GaN HEMT Structures grown by MOCVD**
LİŞESİVDİN S. B., ACAR S., KASAP M.
13. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 03 November 2006, pp.104
107. **Two dimensional hole gas (2DHG) formation evidence in AlGaN/GaN/AlN HEMTs**
ACAR S., LİŞESİVDİN S. B., KASAP M.
13. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 03 November 2006, pp.105
108. **QMSA Analysis and Effects of Extreme Space-Charge Scattering on the Mobility in III-V Systems grown by MBE**
LİŞESİVDİN S. B., ACAR S., KASAP M., ÖZÇELİK S.
Turkish Physical Society 23th International Physics Congress, Muğla, Turkey, 13 - 16 September 2005, pp.1214
109. **Galvanomagnetic measurements of LEC grown Te-doped InSb**
LİŞESİVDİN S. B., Yurdugul U., DEMİREZEN S., ACAR S., KASAP M.
11. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 03 December 2004, pp.79
110. **Temperature dependence of magnetotransport and electrotransport properties of LEC grown S-doped InAs**
KARA İ., LİŞESİVDİN S. B., ACAR S., KASAP M.

Academic and Administrative Experience

2021 - 2023	Rectorate Commissioner	Gazi University, Fen Fakültesi, Fizik
2016 - 2018	Erasmus Program Institutional Coordinator	Gazi University, Fen Fakültesi, Fizik Bölümü
2011 - 2014	Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi	Gazi University, Araştırma ve Uygulama Merkezleri, Fotonik Uygulama ve Araştırma Merkezi

Courses

Introduction to Nanotechnology, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Research Project I, Undergraduate, 2022 - 2023, 2021 - 2022, 2018 - 2019, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2009 - 2010
Micro and Nanofabrication Methods , Doctorate, 2021 - 2022, 2020 - 2021
Physics of Low-dimensional Semiconductors, Doctorate, 2021 - 2022, 2020 - 2021
Micro and Nanofabrication Methods, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Research Project II, Undergraduate, 2018 - 2019, 2014 - 2015, 2011 - 2012, 2009 - 2010
Physics of Low-dimensional Semiconductors, Doctorate, 2017 - 2018, 2016 - 2017, 2013 - 2014
Introduction to Nanotechnology, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Physics II, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2011 - 2012
Physics I, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
Maddenin Özellikleri, Undergraduate, 2012 - 2013
Fizik, Undergraduate, 2012 - 2013
Physics Laboratory (Mechanics), Undergraduate, 2011 - 2012, 2009 - 2010
Basic Computer Usage and Fortran Language, Undergraduate, 2011 - 2012
Physics II, Undergraduate, 2009 - 2010

Advising Theses

LİŞESİVDİN S. B., Investigation Of Structural And Optical Properties Of Zno And Mgzno Crystals Grown By Uscvd, Doctorate, P.NARİN(Student), 2021
LİŞESİVDİN S. B., RF magnetron sputter sistemi ile pasif devre elemanı rezistör üretimi ve karakterizasyonu, Postgraduate, K.BERK(Student), 2019
LİŞESİVDİN S. B., GaN tabanlı alan etkili transistörlerde SiC arka-yüzey geçiş deliği aşındırma uygulaması, Postgraduate, M.TAHA(Student), 2019
LİŞESİVDİN S. B., Back Side Via Hole Etching Application Of Sic For Gan Based Field Effect Transistors, Postgraduate, M.Taha(Student), 2019
LİŞESİVDİN S. B., Electrical Characteristics And Scattering Analysis Of Ultrathin Barrier Gan-Based High Electron Mobility Transistors, Postgraduate, M.ÖZTÜRK(Student), 2018
LİŞESİVDİN S. B., Investigations Of Low-Field Transport And Hot-Electron Transport In Passivated Algan/Gan Hems With Si3n4, Doctorate, G.ATMACA(Student), 2018

LİŞESİVDİN S. B., Investigation Of The Electronic Properties Of Zn, Cd And Hg Doped Graphene Sheets With Ab-Initio Methods, Postgraduate, Ö.ÖMEROĞLU(Student), 2018

LİŞESİVDİN S. B., Investigation of electronic and optical properties of wurtzite MgZnO with first principles calculations, Postgraduate, R.IBRAHEM(Student), 2018

LİŞESİVDİN S. B., Investigation Of Electronic And Optical Properties Of Wurtzite Mgzno With First Principles Calculations, Postgraduate, R.Ibrahem(Student), 2018

LİŞESİVDİN S. B., The Investigation Of The Effect Of Al, Ga, In And As Impurities On Electronic And Optical Properties Of Beta-Si₃N₄ Compound With Density Functional Theory, Postgraduate, E.KUTLU(Student), 2016

LİŞESİVDİN S. B., GaN-temelli ultraince bariyerli yüksek elektron devingenlikli transistörlerinin benzetimi ve optimizasyonu, Postgraduate, J.MOSTAFA(Student), 2016

LİŞESİVDİN S. B., Electron And Magnetotransport Investigation Of 2- Dimensional Electron Gas In Ultrathin Barrier Gan-Based Heterostructures, Postgraduate, C.GÜNEŞ(Student), 2013

LİŞESİVDİN S. B., Numerical investigation of the 2-dimensional carriers in ALQN/ALN/GAN-BASED (Q=GA, İN) transistors with multi-quantum well back-barriers, Postgraduate, G.ATMACA(Student), 2012

LİŞESİVDİN S. B., Investigation of electron transport properties AllnN/AlN/(InGaN)/GaN in multi-structures with InGaN quantum well, Postgraduate, G.KARAKOÇ(Student), 2012

LİŞESİVDİN S. B., Investigation of electronic properties of pd-terminated graphene nanoribbons, Postgraduate, A.FATİH(Student), 2012

LİŞESİVDİN S. B., Investigation of magnetoconductivity and surface properties of exfoliated and epitaxially grown graphene samples, Postgraduate, K.ELİBOL(Student), 2012

Activities in Scientific Journals

Advances in Condensed Matter Physics, Committee Member, 2019 - Continues

Plos One, Committee Member, 2019 - Continues

Advances in OptoElectronics, Committee Member, 2019 - 2019

Plos One, Committee Member, 2013 - 2017

Memberships / Tasks in Scientific Organizations

IEEE Electron Devices Society, Member, 2005 - Continues, United States Of America

Institute of Electrical and Electronics Engineers (IEEE), Member, 2005 - Continues, United States Of America

IEEE Communications Society, Member, 2006 - 2006, United States Of America

Society of Photographic Instrumentation Engineers (SPIE), Member, 2006 - 2006, United States Of America

Scientific Refereeing

CHEMICAL PHYSICS, SCI Journal, October 2021

PHYSICA E: LOW-DIMENSIONAL SYSTEMS AND NANOSTRUCTURES, SCI Journal, September 2021

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, December 2020

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, November 2020

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SCI Journal, October 2020

DIAMOND AND RELATED MATERIALS, SCI Journal, October 2020

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, October 2020

PHILOSOPHICAL MAGAZINE LETTERS, SCI Journal, July 2020

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, July 2020

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, July 2020

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, May 2020

DIAMOND AND RELATED MATERIALS, SCI Journal, May 2020
SYNTHETIC METALS, SCI Journal, March 2020
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, February 2020
SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, March 2018
SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, May 2017
SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, May 2017
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, July 2015
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, June 2015
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, SCI Journal, April 2014
NANOTECHNOLOGY, SCI Journal, September 2013

Tasks In Event Organizations

Lişesivdin S. B., VII. ADIM Physics, Scientific Congress, Aydın, Turkey, Mayıs 2018
Lişesivdin S. B., VI. ADIM Physics, Scientific Congress, Balıkesir, Turkey, Temmuz 2017
Lişesivdin S. B., 2nd International Nanoscience and Nanotechnology for Next Generation (NaNONG), Scientific Congress, Antalya, Turkey, Ekim 2015
Lişesivdin S. B., 1st International Conference on Organic Electronic Material Technologies (OEMT-2015) , Scientific Congress, Elazığ, Turkey, Mart 2015

Scientific Research / Working Group Memberships

Low-Dimensional Materials And Systems, Gazi University, Turkey, <https://www.lrgresearch.org/>, 2010 - Continues

Metrics

Publication: 195
Citation (WoS): 1014
Citation (Scopus): 1007
H-Index (WoS): 17
H-Index (Scopus): 17

Research Areas

Surfaces, Interfaces, Thin Films and Nanosystems, Electronic structure of bulk material, Electronic structure of bulk material, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Magnetic Properties and Materials, Optical Properties, Spectroscopy of Matter, Electronic transport in condensed matter

Entrepreneurship Activities

Limited, Biarsis Ar-Ge Elektr. San. ve Tic. Ltd. Şti., 29 August 2018, Founder Owner