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Teknikokullar Ankara

International Researcher IDs

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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
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Associate Professor 2011 - 2018	Gazi University, Fen Fakültesi, Fizik
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Assistant Professor 2009 - 2011	Gazi University, Fen Fakültesi, Fizik
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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. 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)
- 2. First principles calculations of electronic and optical properties of InSe nanosheets doped with noble metal atoms**
NARİN P., All Abbas J., Kutlu-Narin E., LİŞESİVDİN S. B., Ozbay E.
Computational Materials Science, vol.222, 2023 (SCI-Expanded)
- 3. 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)
- 4. 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)
- 5. 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)
- 6. 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)
- 7. 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)
- 8. 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)
- 9. 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)
- 10. 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)
- 11. 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)
- 12. 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)

13. **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)
14. **Structural parameters and electronic properties of 2D carbon allotrope: Graphene with a kagome lattice structure**
Sarıkavak-Lisesivdin B., LİŞESİVDİN S. B., Ozbay E., Jelezko F.
CHEMICAL PHYSICS LETTERS, vol.760, 2020 (SCI-Expanded)
15. **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)
16. **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)
17. **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)
18. **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)
19. **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)
20. **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)
21. **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)
22. **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)
23. **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)
24. **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)
25. **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., Sarıkavak-Lisesivdin B., Lisesivdin S. B.
JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.8, pp.5278-5286, 2017 (SCI-Expanded)
26. **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., Sarıkavak-Lisesivdin B., Lisesivdin S. B.

- OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.11, pp.328-331, 2017 (SCI-Expanded)
27. **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)
 28. **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)
 29. **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)
 30. **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)
 31. **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)
 32. **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)
 33. **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)
 34. **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)
 35. **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)
 36. **The variation of temperature-dependent carrier concentration and mobility in AlGaN/AlN/GaN heterostructure with SiN 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)
 37. **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)
 38. **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)
 39. **Electron Transport Properties of Two-Dimensional Electron Gas in BexZn1-xO/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)
 40. **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)
41. **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)
42. **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)
43. **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)
44. **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)
45. **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)
46. **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)
47. **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)
48. **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)
49. **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)
50. **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)
51. **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)
52. **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)
53. **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)
54. **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)

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. **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)
57. **Scattering analysis of two-dimensional electrons in $\text{AlGaIn}/\text{GaIn}$ 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)
58. **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)
59. **Analysis of defect related optical transitions in biased $\text{AlGaIn}/\text{GaIn}$ 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)
60. **Mobility limiting scattering mechanisms in nitride-based two-dimensional heterostructures with the InGaIn channel**
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59. **Ab initio study of oxygen and arsenic impurities on non-linear optical properties of β-Si₃N₄ material**
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Turkish Physical Society 23th International Physics Congress, Muğla, Turkey, 13 - 16 September 2005, pp.1214

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11. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 03 December 2004, pp.67

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 Us-cvd, 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.Ibrahim(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 ALQ_N/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/(InGa_N)/Ga_N in multi-structures with InGa_N 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

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

IEEE Communications Society, 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

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DIAMOND AND RELATED MATERIALS, 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: 197
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. Őti, 29 August 2018, Founder Owner