FAHRETTIN SARCAN
DOÇ.DR.

E-posta : fahrettin.sarcan@istanbul.edu.tr
İş Telefonu : +90 212 455 5700 Dahili: 15290
Adres : İstanbul Üniversitesi Fen Fakültesi Fizik Bölümü Nano ve Optoelektronik Araştırmalar Laboratuvarları 34134 Vezneciler-İstanbul
Uluslararası Araştırmacı ID'leri
ORCID: 0000-0002-8860-4321
Publons / Web Of Science ResearcherID: AAE-7233-2020
ScopusID: 55521747300
Yoksis Araştırmacı ID: 54563

Akademik Unvanlar / Görevler

Doç.Dr. 2022 - Devam Ediyor	İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü
Dr.Öğr.Üyesi 2021 - 2022	İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü
Araştırmacı 2020 - 2021	University of York, Faculty of Science, Department of Physics
Araştırma Görevlisi Dr. 2014 - 2021	İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü
Araştırmacı 2019 - 2019	University of York, Faculty of Science , Department of Physics
Uzman 2013 - 2013	İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. **A Dual-Channel MoS2-Based Selective Gas Sensor for Volatile Organic Compounds**
   Kuş E., Altındemir G., Bostan Y. K., Taşaltın C., EROL A., Wang Y., SARCAN F.
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2. **Enhancement of light emission characteristic of a GaAs-based Gunn light emitting diode with a quasi-cavity**
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3. **Ultraviolet-Ozone Treatment: An Effective Method for Fine-Tuning Optical and Electrical Properties of Suspended and Substrate-Supported MoS₂**
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6. **Determination of band tail widths in MOCVD grown InGaN single layer within GaN based p-i-n LED structure through photo-induced measurements**
   ÖZDEMİR O., BOZKURT K., AYARCI KURUOĞLU N., Baş H., SARCAN F., EROL A., Alshehri B., Dogheche K., Dogheche E.
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7. **A novel NiO-based p-i-n ultraviolet photodiode**
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8. **Surface acoustic wave quasi-Bessel beams generated by symmetrically tilted interdigital transducers**
   Uluğ B., Kuruoglu F., Yalcin Y., Erol A., Sarcan F., Şahin A., Çiçek A.
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10. **PREVENTIVE EFFECTS OF MATRIX-METALLOPROTEINASE INHIBITORS ON DENTAL EROSION**
    KORUYUCU M., İLİSULU S. C., SARCAN F., KURUOĞLU F., EROL A., SEYMEN F.
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    Sarcan F., Aydin M., Kuruoğlu F., Dönmez Ö., Yıldırım S., Erol A.
    Materials Science and Engineering B: Solid-State Materials for Advanced Technology, cilt.272, 2021 (SCI-Expanded)
12. **Photoluminescence characteristic of as-grown and thermally annealed n-and p-type modulation-doped Ga(0.68)In(0.32)N(x)AS(1-x)/GaAs quantum well structures**
    Donmez O., Sarcan F., Erol A., Ungan F., Sari H.
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13. **Determination of the acoustic phonon-hot carriers interaction in n- and p-type modulation-doped GaInNAs/GaAs quantum wells**
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    Physica B: Condensed Matter, cilt.612, 2021 (SCI-Expanded)
14. **Nitrogen induced localised-state ensemble effect on multi quantum well GaInNAs with low indium concentration**
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15. **In vitro comparison of titanium surface conditioning via boron-compounds and sand-blasting acid-etching**
    Zboun M., Arısan V., Topcuoglu N., Kuruoğlu F., Sener L., Sarcan F.
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16. **ZnO nanoparticles-based vacuum pressure sensor**
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17. **Ultraviolet Photodetector Based on Mg0.67Ni0.33O Thin Film on SrTiO3**
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18. **Dilute nitride resonant-cavity light emitting diode**
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OPTICS AND LASER TECHNOLOGY, cilt.122, 2020 (SCI-Expanded)
19. **A study on the voltage-dependent response of a GaInNAs-based pin photodetector with a quasi-cavity**
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20. **A study of electric transport in n- and p-type modulation-doped GaInNAs/GaAs quantum well structures under a high electric field**
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21. **Temporal Response of Dilute Nitride Multi-Quantum-Well Vertical Cavity Enhanced Photodetector**
Nordin M. S., Sarcan F., Güneş M., Boland-Thoms A., Erol A., Vickers A. J.
JOURNAL OF ELECTRONIC MATERIALS, cilt.47, sa.1, ss.655-661, 2018 (SCI-Expanded)
22. **Effect of thermal annealing and nitrogen composition on quantum transport in GaInNAs alloy based modulation doped quantum well structures**
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23. **Characterization of temperature dependent operation of a GaInNAs-based RCEPD designed for 1.3 mu m**
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24. **Dilute nitride resonant cavity enhanced photodetector with internal gain for the lambda similar to 1.3 mu m optical communications window**
Balkan N., Erol A., Sarcan F., Al-Ghuraibawi L. F. F., Nordin M. S.
SUPERLATTICES AND MICROSTRUCTURES, cilt.86, ss.467-471, 2015 (SCI-Expanded)
25. **Quantum oscillations and interference effects in strained n- and p-type modulation doped GaInNAs/GaAs quantum wells**
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27. **Analytic modeling of temperature dependence of 2D carrier mobility in as-grown and annealed GaInNAs/GaAs quantum well structures**
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28. **Bismuth-induced effects on optical, lattice vibrational, and structural properties of bulk GaAsBi alloys**
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NANOSCALE RESEARCH LETTERS, cilt.9, 2014 (SCI-Expanded)
29. **Magnetotransport study on as-grown and annealed n- and p-type modulation-doped GaInNAs/GaAs strained quantum well structures**
Donmez Ö., Sarcan F., Erol A., Gunes M., Arikan M. C., Puustinen J., Guina M.
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30. **Influence of nitrogen on hole effective mass and hole mobility in p-type modulation doped GaInNAs/GaAs quantum well structures**

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31. **Excitation energy-dependent nature of Raman scattering spectrum in GaInNAs/GaAs quantum well structures**
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32. **An analysis of Hall mobility in as-grown and annealed n- and p-type modulation-doped GaInNAs/GaAs quantum wells**
Sarcan F., Donmez Ö., Gunes M., Erol A., Arikan M. C., Puustinen J., Guina M.
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Diğer Dergilerde Yayınlanan Makaleler

1. **Dağıtılmış Alt Bragg Dielektrik Yansıtıcılı Işık Yayan Diyot**
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Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.10, sa.4, ss.1-6, 2020 (Hakemli Dergi)
2. **İstabul Üniversitesi Gözlemevi Odak Düzlemi Aygıtı Test ve Karakterizasyon Laboratuvarı**
Aliş S., Güver T., Erol A., Ege E., Kay B., Yelkenci F. K., Yeşilyaprak C., Keskin O., Yerli S. K., Sarcan F., et al.
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

1. **Optical and Electrical Properties of MBE Grown CuNiO and MgNiO Alloys**
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International Graduate Research Symposium – IGRS'22, İstanbul, Türkiye, 1 - 03 Haziran 2022, cilt.1, sa.1, ss.1
2. **Defect engineering of two-dimensional transition metal dichalcogenides**
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3. **Few-layer MoTe 2 -based Photodetector**
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4. **OPTICAL AND STRUCTURAL CHARACTERISATION OF TERNARY CHALCOGENIDE TLSBSE2**
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5. **Dilute Nitride-based Resonant Cavity Light Emitter for Optical Communication**
SARCAN F., Wang Y., Krauss T., Eruçar T., EROL A.
42. PIERS PhotonIcs & Electromagnetics Research Symposium, Xiamen, Çin, 17 - 20 Aralık 2019, ss.200
6. **Vertical Cavity based Optoelectronics devices for 1.3 um wavelength applications**
SARCAN F., EROL A.
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7. **GaInNAs-based Resonant Cavity Light Emitter and Phototector for Optical Communication at 1.3 um**
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IV. Uluslararası Bilimsel ve Mesleki Çalışmalar Kongresi – Mühendislik, Ankara, Türkiye, 7 - 10 Kasım 2019, ss.1
8. **Investigation of the preventive effects of matrix-metalloproteinase inhibitors on dental erosion: In vitro study.**
KORUYUCU M., İlisulu C., SARCAN F., KURUOĞLU F., SEYMEN F.
11th EAPD Interim Seminar and Guideline Workshop, Crete, Yunanistan, 3 - 04 Mayıs 2019, cilt.1, ss.1

9. **GaInNAs-based vertical cavity devices for 1.3 μm applications**
SARCAN F., EROL A.
International Eurasion Conference on Science, Engineering Technology, Ankara, Türkiye, 22 - 23 Kasım 2018, ss.180
10. **Recent Developments at I˙stanbul University Observatory**
Güver T., Aliş S., Erol A., Ege E., Tüysüz M., Fişek S., Kaptan S., Kay B., Sarcan F., Yelkenci F. K., et al.
34. Uluslararası Fizik Kongresi - TFD, Muğla, Türkiye, 5 - 09 Eylül 2018
11. **ELECTRONIC TRANSPORT IN n-type MODULATION DOPED GaInAs/GaAs and GaInNAs/GaAs QUANTUM WELL STRUCTURES**
Rajhi A., Aydın M., ÇOKDUYGULULAR E., ÇETİNKAYA Ç., DÖNMEZ Ö., YILDIRIM S., SARCAN F., EROL A.
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12. **Characterization of GaInNAs-based IR Emitters**
SARCAN F., Eruçar T., EROL A.
Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Muğla, Türkiye, 5 - 09 Eylül 2018, ss.267
13. **A Comparison Of Characteristics of Heterojunction pin Solar Cells Based On Dilute Bismide And Dilute Nitride Alloys**
Muhammedgulyev A., SARCAN F., Göksel Ö., KINACI B., DÖNMEZ Ö., ÇELEBİ Y. G., EROL A.
International Conference On Condensed Matter And Materials science, Adana, Türkiye, 11 - 15 Ekim 2017, ss.25
14. **Characterization Of Heterojunction pin solar Cells Based On Dilute Bismide And Dilute Nitride**
Muhammedgulyev A., SARCAN F., KINACI B., DÖNMEZ Ö., EROL A.
8th International Workshop on Bismuth-Containing Semiconductors, Marburg, Almanya, 23 Temmuz 2017 - 26 Temmuz 2016, ss.97
15. **Comparative Study of Multi Quantum Well Photodetector Characterization Based on GaInNAs for 1um Wavelength**
Nordin M. S., Mohmad A. R., SARCAN F., EROL A., Boland-Thoms A., Vickers A. J.
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16. **GaInNas(sb) Multi Quantum well Vertical Cavity Enhanced Photodetector**
Nordin M. S., SARCAN F., Evans M., EROL A., Boland-Thoms A., Vickers A. J.
Semiconductor And Integrated Opto- Electronics Conference, Cardiff, Birleşik Krallık, 18 - 20 Nisan 2017, ss.103
17. **Comparative Study of Multi Quantum Well GaInNAs Photodetector Characterisation**
Nordin M. S., SARCAN F., EROL A., Boland-Thoms A., Vickers A. J.
The Physics Of Optoelectronic Materials And Devices, Essex, Birleşik Krallık, 27 - 28 Mart 2017, ss.10
18. **Design Issues and Characterization of a GaInNAs-based Resonance Cavity Enhanced Photodetector**
SARCAN F., Nordin M. S., KURUOĞLU F., EROL A., Vickers A. J.
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19. **INVESTIGATION OF ELECTRONIC TRANSPORT PROPERTIES IN GaInNAs/GaAs QUANTUM WELL STRUCTURES**
NUTKU F., DÖNMEZ Ö., Çokduygulular E., SARCAN F., KURUOĞLU F., MUTLU S., YILDIRIM S., EROL A.
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20. **Investigation of Electronic Transport Properties in GaInNAs/GaAs Quantum Well Structures**
NUTKU F., DÖNMEZ Ö., ÇOKDUYGULULAR E., SARCAN F., KURUOĞLU F., MUTLU S., YILDIRIM S., EROL A.
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21. **Electronic transport properties of p-type GaInNAs/GaAs quantum well structures**
MUTLU S., ÇOKDUYGULULAR E., ÇETİNKAYA Ç., SARCAN F., DÖNMEZ Ö., EROL A.
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22. **GaInNAs Based Resonance Cavity Enhanced Photodedector For Optical Communication Wavelength**
SARCAN F., Nordin M. S., EROL A., Vickers A. J.
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23. **Temperature and electric field dependence of localization in modulation doped GaInNAs/GaAs quantum well structures**
YILDIRIM S., EROL A., SARCAN F., NUTKU F., KURUOĞLU F., DÖNMEZ Ö.

9th International Physics Conference of the Balkan Physical Union-BPU9, İstanbul, Türkiye, 24 - 27 Ağustos 2015, cilt.9, ss.161

24. **Weak Localization and Weak Antilocalization in n- and p-type Modulation Doped GaInNAs/GaAs Quantum Wells**
NUTKU F., SARCAN F., DÖNMEZ Ö., KURUOĞLU F., MUTLU S., EROL A., YILDIRIM S., ARIKAN M. Ç.
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25. **Dilute Nitride Resonant Cavity Enhanced Photodetector With Internal Gain For Operation At 1.286 um**
Balkan N., EROL A., SARCAN F., Nordin M. S.
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26. **Magnetoresistance in n- and p-type Gainnas Gaas Modulation Doped Quantum Well Structures**
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27. **Analytic Modeling Of Temperature Dependence of 2D Carrier Mobility In As Grown And Annealed GaInNAs/GaAs Quantum Well Structures**
DÖNMEZ Ö., SARCAN F., Vaughan M., EROL A., Güneş M., ARIKAN M. Ç., Puustinen J., ARIKAN M. Ç.
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28. **Optical Properties of GaAsBi Ternary Alloy**
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29. **Investigation of GaBiAs Alloy Using Raman spectroscopy**
AKALIN E., EROL A., SARCAN F., ARIKAN M. Ç., Fontaine C.
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30. **Thermal Annealing And Nitrogen Induced Effects On Electronic Transport in n- and p-type Modulation Doped GaInNAs GaAs Quantum Well Structures**
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31. **Effect of Alloy and Interface Roughness Scatterings On The Carrier Mobility in n- and p-type Modulation Doped GaInNAs/GaAs Quantum Well Structures**
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33. **An Analysis Of Scattering Mechanisms In As Grown And Annealed N And P Type Modulation Doped Gainnas Gaas Quantum Wells**
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35. **A Comprehensive Study Of Optical Characterization of n- and p-type As Grown And Annealed Modulation Doped Gaas Gainnas Qw Structures**
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36. **A Comparative Study On Electronic Transport Properties of n- and p-type Modulation Doped Gainas**

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37. **Effect of Thermal Annealing On Optical And Electronic Transport Properties in n- and p-type Modulation Doped GaInNAs/GaAs Quantum Wells**
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38. **Electronic Transport Properties Of The GaInNAs/GaAs p-type As Grown And Annealed Modulation Doped Quantum Well Structures,**
EROL A., SARCAN F., Güneş M., ARIKAN M. Ç., Puustinen J., Guina M.
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Metrikler

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H-İndeks (WoS): 10
H-İndeks (Scopus): 10

Kongre ve Sempozyum Katılımı Faaliyetleri

42, PhotonIcs & Electromagnetics Research Symposium, Katılımcı, Xiamen, Çin, 2019
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Araştırma Alanları

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