



MURAT GÜLNAHAR

PROF.

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International Researcher IDs

ORCID: 0000-0003-2801-3690

Yoksis Researcher ID: 111823



Education

Doctorate 2002 - 2008	Ataturk University, Fen Bilimleri Enstitüsü, Turkey
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Postgraduate 1997 - 2000	Ataturk University, Fen Bilimleri Enstitüsü, Turkey
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Undergraduate 1992 - 1996	Ataturk University, Fen-Edebiyat Fakültesi, Turkey
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Foreign Languages

English, B2 Upper Intermediate

Academic Titles / Tasks

Professor 2024 - Continues	Erzincan Binali Yildirim University, Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü
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Associate Professor 2018 - 2024	Erzincan Binali Yildirim University, Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü
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Assistant Professor 2009 - 2018	Erzincan Binali Yildirim University, Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü
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Supported Projects

1. Gülnahar M., Altun Yalçın S., TUBITAK Project, Erzincan Bilim Şenliği 1, 2019 - 2019
2. BABACAN Y., KACAR F., UZUNOĞLU C. P., GÜLNAHAR M., Project Supported by Higher Education Institutions, Ayarlanabilir Eşik Gerilimlerine Sahip Memristör Devre Modeli Tasarımı ve Deşarj Lambasına Uygulanması ile Memkapasitör/Memindiktör Tasarımı, 2017 - 2018
3. GÜLNAHAR M., ŞAHİN M., Project Supported by Higher Education Institutions, Ag/n-InP Schottky Kontak Yapının Sıcaklığa Bağlı Akım-Gerilim (I-V) ve Kapasite-Gerilim (C-V) Karakteristiklerinin İncelenmesi, 2014 - 2017
4. GÜLNAHAR M., Project Supported by Higher Education Institutions, 4H- SiC ve 6H-SiC Yarıiletken Bileşiklerinin Sıcaklığa Bağlı Elektriksel Karakteristiklerinin İncelenmesi, 2011 - 2013

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erzincan Binali Yıldırım Üniversitesi, January, 2022

Post Graduate, Post Graduate, Afyon Kocatepe Üniversitesi, August, 2018

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erzincan Binali Yıldırım Üniversitesi, January, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Analysis on the capacitance-voltage characteristics of metal-insulator-semiconductor capacitors based on thermally evaporated WO_x on n- and p- type crystalline silicon**
GÜLNAHAR M., Mehmood H., Hüseyin Canar H., Nasser H.
Materials Science and Engineering: B, vol.304, 2024 (SCI-Expanded)
2. **On the electrical and charge conduction properties of thermally evaporated MoO_x on n- and p-type crystalline silicon**
Gülnahar M., Nasser H., Salimi A., Turan R.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.1, pp.1092-1104, 2021 (SCI-Expanded)
3. **Characterization of electrical transport and properties of an Al/porous Si (PS)/p-Si/Al heterojunction**
Gülnahar M., KARACALI T., EFEOĞLU H.
Journal of Alloys and Compounds, vol.797, pp.859-864, 2019 (SCI-Expanded)
4. **On the studies of capacitance-voltage-temperature and deep level characteristics of an Au/p-GaTe Schottky diode**
GÜLNAHAR M., EFEOĞLU H., Sahin M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.694, pp.1019-1025, 2017 (SCI-Expanded)
5. **Electrical Characteristics of an Ag/n-InP Schottky Diode Based on Temperature-Dependent Current-Voltage and Capacitance-Voltage Measurements**
Gülnahar M.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.9, pp.3960-3971, 2015 (SCI-Expanded)
6. **Porous Si Based Al Schottky Structures on p(+)-Si: A Possible Way for Nano Schottky Fabrication**
Gülnahar M., KARACALI T., EFEOĞLU H.
ELECTROCHIMICA ACTA, vol.168, pp.41-49, 2015 (SCI-Expanded)
7. **Current-Voltage and Capacitance-Conductance-Voltage Characteristics of Al/SiO₂/p-Si and Al/Methyl Green (MG)/p-Si Structures**
Duman S., Ozcelik F. S., GÜRBULAK B., GÜLNAHAR M., TÜRÜT A.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.1, pp.347-353, 2015 (SCI-Expanded)

8. **Temperature dependence of current-and capacitance-voltage characteristics of an Au/4H-SiC Schottky diode**
Gulnihar M.
SUPERLATTICES AND MICROSTRUCTURES, vol.76, pp.394-412, 2014 (SCI-Expanded)
9. **Multiple-barrier distribution behavior of Mo/p-GaTe fabricated with sputtering**
Gulnihar M., EFEOĞLU H.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.27, pp.7317-7323, 2011 (SCI-Expanded)
10. **Double barrier nature of Au/p-GaTe Schottky contact: Linearization of Richardson plot**
Gulnihar M., Efeoğlu H.
SOLID-STATE ELECTRONICS, vol.53, no.9, pp.972-978, 2009 (SCI-Expanded)
11. **A SIMPLE PROCEDURE TO SIMULTANEOUSLY EVALUATE THE THICKNESS OF AND RESISTIVE LOSSES IN TRANSMISSION LINES FROM UNCALIBRATED SCATTERING PARAMETER MEASUREMENTS**
Hasar U. C., ŞİMŞEK Ö., Gulnihar M.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.23, pp.999-1010, 2009 (SCI-Expanded)

Articles Published in Other Journals

1. **PID Control of Hybrid DC-DC Converter System in Complex Load with Double Reference Time**
Can E., Gülnihar M.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.18, no.1, pp.63-72, 2024 (ESCI)
2. **Electronic Properties of FLG/InP Schottky Contacts**
Çatır F. E., Gülnihar M.
Avrupa Bilim ve Teknoloji Dergisi, vol.49, pp.6-11, 2023 (Peer-Reviewed Journal)
3. **I V T Characteristics of Al p GaTe Schottky Contact Structure**
GÜLNAHAR M.
Balkan Physics Letters, vol.TFD-24, pp.542-550, 2008 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **Temperature Dependence Of Current And Capacitance Voltage Characteristics Of An Au 4H SiC Schottky Diode**
Şahin E., Şahin M., Gülnihar M.
FOTONİK 2014 (16. Ulusal Optik, Elektro-Optik ve Fotonik Çalışma Toplantısı), Kocaeli, Turkey, 05 September 2014
2. **Examination Of The Current-Voltage Characteristics Of An Al/P-Si/Al Schottky Diode**
Gülñihar M., Şahin M., Şahin E.
16. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştay, FOTONİK, Kocaeli, Turkey, 05 September 2014, pp.35
3. **Işık- Renk İlişkisinin Görsel ve Mekânsal Etkileri**
Şahin M., Şahin E., Oğuz Y., Gülñihar M.
16. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştay, 05 September 2014, pp.37-38

Academic and Administrative Experience

2023 - Continues	Staj Koordinatörü	Erzincan Binali Yıldırım University, Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü
2018 - Continues	Birim Kalite Komisyonu Üyesi	Erzincan Binali Yıldırım University, Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü
2018 - Continues	Head of Department	Erzincan Binali Yıldırım University, Meslek Yüksekokulu, Elektrik ve Enerji Bölümü

Courses

SÖZLEŞME KEŞİF PLANI, Associate Degree, 2023 - 2024
ELEKTRONİK KONTROL DEVRELERİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
STAJ, Associate Degree, 2023 - 2024
RÜZGAR GÜCÜ İLE ELEKTRİK ÜRETİMİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022
YEŞİL BİNA UYGULAMALARI, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
İLERİ TEKNOLOJİSİ MALZEME BİLGİSİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
HİDRO ENERJİ İLE ELEKTRİK ÜRETİMİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
HİBRİT ENERJİ SİSTEMLERİ, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Enerji Tasarrufu, Associate Degree, 2023 - 2024, 2022 - 2023
Enerji Fiziğine Giriş, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Enerji Sistemleri Tasarımı, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Biyokütle İle Enerji Üretimi, Associate Degree, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
Elektrik İş Güvenliği, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Enerji ve Çevre, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Fizik, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Enerji Verimliliği, Associate Degree, 2022 - 2023, 2020 - 2021, 2019 - 2020
Güneş Enerji ve Sistemleri, Associate Degree, 2020 - 2021, 2018 - 2019
Temel Uçak Fizik Bilgisi, Associate Degree, 2021 - 2022, 2020 - 2021
Doğru Akım Devre Analizi, Associate Degree, 2020 - 2021
İş Güvenliği ve Sağlığı, Associate Degree, 2020 - 2021, 2019 - 2020
Sayısal Elektronik, Associate Degree, 2019 - 2020
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020
MATEMATİK, Associate Degree, 2016 - 2017
Seminer Dersi, Postgraduate, 2015 - 2016
Danışmanlık, Postgraduate, 2015 - 2016
Uzmanlık Alan Dersi, Postgraduate, 2015 - 2016
Enerji Fiziğine Giriş, Associate Degree, 2015 - 2016

Supervised Theses

Gülnahar M., Al/p-Si Schottky kontak yapıların sıcaklığa bağlı akım gerilim (I-V) karakteristiklerinin incelenmesi, Postgraduate, O.GÜLTEPE(Student), 2012

Scientific Refereeing

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Bayburt University, Turkey, November 2023
TUBITAK Project, 2209-B - Sanayiye Yönelik Lisans Araştırma Projeleri Destekleme Programı, Muğla Sıtkı Koçman University, Turkey, August 2021
JOURNAL OF PHYSICS D - APPLIED PHYSICS, Journal Indexed in SCI-E, August 2020
JOURNAL OF PHYSICS D - APPLIED PHYSICS, Journal Indexed in SCI-E, May 2020
Project Supported by Higher Education Institutions, BAP Research Project, Erzincan Binali Yıldırım University, Turkey, March 2020
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, Journal Indexed in SCI-E, January 2020
JOURNAL OF PHYSICS D - APPLIED PHYSICS, Journal Indexed in SCI-E, August 2019

SOLID STATE SCIENCES, Journal Indexed in SCI-E, July 2019

TUBITAK Project, 1509 - TÜBİTAK International Industry R&D Projects Support Program, SGN LOJİSTİK YATIRIM

SANAYİ VE TİCARET ANONİM ŞİRKETİ, Turkey, July 2019

SEMICONDUCTOR SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, May 2019

Metrics

Publication: 42

Citation (WoS): 91

Citation (Scopus): 139

H-Index (WoS): 8

H-Index (Scopus): 8

Congress and Symposium Activities

Temperature Dependence Of Current And Capacitance Voltage Characteristics Of An Au 4H SiC Schottky Diode, Attendee, Kocaeli, Turkey, 2014

Işık Renk İlişkisinin Görsel ve Mekansal Etkileri, Attendee, Kocaeli, Turkey, 2014

CO2 Lazerler ve Uygulama Alanları, Attendee, Kocaeli, Turkey, 2014

Temperature dependent current voltage and capacitance voltage characteristics of an Ag n InP Schottky diode, Attendee, Erzurum, Turkey, 2013

Schottky Eklemlerde Schottky Engel Homojensizliği, Attendee, Ankara, Turkey, 2011

Al p Si Metal Yarıiletken Kontak Yapılarda Dielektrik Sabitinin Görüntü Yük Etkisi Üzerine Etkisi, Attendee, Ankara, Turkey, 2010

Au p GaTe Kontakının C V T Karakteristiği ve Derin Seviyelerin Etkisi, Attendee, Muğla, Turkey, 2008

Au p GaTe Kontak Yapısında Schottky Engel Homojensizlikleri ve Lineerize Olmuş Çoklu Gauss Dağılımı, Attendee, Muğla, Turkey, 2008

Porous Si Based Al Schottky Structures on p Si A Possible way for Nano Schottky Fabrication, Attendee, İstanbul, Turkey, 2008

Al p Si Schottky Kontak Yapıların Sıcaklığa Bağlı Kapasite Gerilim C V T Karakteristikleri Üzerinde Artık Kapasitansın Etkisi, Attendee, Ankara, Turkey, 2007

İdeal Au n Si Schottky Yapısına Ait Kontak Engel Yüksekliğinin Deneysel Eldesi ve Gauss Dağılımı, Attendee, Ankara, Turkey, 2007

Al GaTe Schottky Kontak Yapımın Sıcaklığa Bağlı Akım Gerilim Karakteristikleri, Attendee, Malatya, Turkey, 2007

İdeale Yakın Au GaAs Schottky ve Yüksek Çözünürlüklü Akım Gerilim Sıcaklık I V T Karakterizasyonu, Attendee, İstanbul, Turkey, 2006

Low Temperature Near Band Edge Photoluminescence Characterisation of GaTe, Attendee, Elazığ, Turkey, 2000

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

Non Academic Experience

National Education Directorate, Milli Eğitim Müdürlüğü, Erzurumlu Emrah İlköğretim Okulu, Öğretmen

National Education Directorate, Milli Eğitim Müdürlüğü, Ulalar İlköğretim Okulu, Öğretmen