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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1983 - 1993

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Turkey 1981 - 1983

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1975 - 1981

Dissertations

Doctorate, p-pSi-Al Schottky Diyotlarında Sıcaklığa Bağlı Fiziksel Parametreler, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 1993

Postgraduate, Elektrik ark fırını yapımı ve FeNi alaşımlarının elektriksel dirençleri, Hacettepe University, Fen Bilimleri Enstitüsü, 1983

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik Bölümü, 2017 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik Bölümü, 2010 - Continues

Assistant Professor, Gazi University, Fen Fakültesi, Fizik Bölümü, 1998 - 2011

Research Assistant, Gazi University, Fen Fakültesi, Fizik Bölümü, 1983 - 1998

Courses

Fiz156E Physics lab, Undergraduate, 2017 - 2018

YÜKSEK LİSANS TEZ ÇALIŞMASI, Postgraduate, 2017 - 2018, 2016 - 2017

YÜKSEK LİSANS TEZ HAZIRLIK, Postgraduate, 2017 - 2018, 2016 - 2017

YÜKSEK LİSANS UZMANLIK ALAN DERSİ, Postgraduate, 2017 - 2018, 2016 - 2017

DOKTORA TEZ ÇALIŞMASI, Doctorate, 2017 - 2018, 2016 - 2017

FİZ103 FİZİK 1, Undergraduate, 2017 - 2018, 2016 - 2017

DOKTORA TEZ HAZIRLIK, Doctorate, 2017 - 2018, 2016 - 2017

FİZ104E FİZİK2, Undergraduate, 2017 - 2018

DOKTORA UZMANLIK ALAN DERSİ, Doctorate, 2017 - 2018, 2016 - 2017

FİZ104E FİZİK 2 (İNGİLİZCE), Undergraduate, 2016 - 2017

Advising Theses

- ÖZER M., Production Of N-Type 6h-Sic Based Schottky Diodes With Polymer Interface And Investigation Of The Electronic Parameters, Doctorate, H.ALTAN(Student), 2020
- ÖZER M., Analysis Of Residual Stresses Of Aln Buffer Layers By Hr-Xrd, Postgraduate, C.Avar(Student), 2019
- ÖZER M., AIN tampon tabakaların kalıntı gerilmelerinin HR-XRD ile analizi, Postgraduate, C.AVAR(Student), 2019
- ÖZER M., Investigating The Electrical Properties Of Metal Semiconductor Contacts Prepared On N-Inp Semiconductor With Tio 2 Interfacial Layer, Postgraduate, A.KÜRŞAT(Student), 2015
- ÖZER M., Preparation Of Schottky Diodes 6h-Sic Based And Investigation Of Electrical Parameters In The Wide Temperature Range, Doctorate, T.GÜZEL(Student), 2015
- ÖZER M., Temperature and frequency depent investigation of diode parameters of Au/TiO₂/n-Si/Au schottky barrier, Postgraduate, M.SEL(Student), 2012
- ÖZER M., P-GaAs yarıiletkeni ile hazırlanan metal yarıiletken kontakların elektriksel özelliklerinin incelenmesi, Postgraduate, A.ASİMOV(Student), 2010
- ÖZER M., p-GaAs YARIİLETKENİ İLE HAZIRLANAN METAL YARIİLETKEN KONTAKLARIN ELEKTRİKSEL ÖZELLİKLERİNİN İNCELENMESİ, Postgraduate, A.ASİMOV(Student), 2010
- ÖZER M., N-GaP yarıiletkeni ile hazırlanan metal yarıiletken kontakların diyot ve optik özelliklerinin incelenmesi, Postgraduate, A.KIYMAZ(Student), 2010
- ÖZER M., Gap yarıiletkeni ile hazırlanan metal-yarıiletken kontakların elektriksel özelliklerinin incelenmesi, Postgraduate, B.ÖNAL(Student), 2009
- ÖZER M., INVESTIGATION OF THE OPTICAL PROPERTIES OF THE Au/n- GaAs METAL SEMICONDUCTOR CONTACTS, Postgraduate, D.Eylül(Student), 2009
- ÖZER M., Au/n-gaas metal yarıiletken kontakların optik özelliklerinin incelenmesi, Postgraduate, D.EYLÜL(Student), 2009
- ÖZER M., Au/n-CdTe yapıların elektriksel ve optiksel özellikleri, Postgraduate, N.BALCI(Student), 2008
- ÖZER M., THE DETERMINATION OF THE BASIC PARAMETERS OF METAL-SEMICONDUCTOR CONTACT WITH SiO₂ INTERFACE GROWN BY RF SPUTTERING METHOD, Postgraduate, Ş.DEMİR(Student), 2007
- ÖZER M., Metal-yarıiletken kontaklarda Schottky engelinin sığa özellikleri, Postgraduate, T.GÜZEL(Student), 2006
- ÖZER M., Karbondioksit (CO₂) lazerle fiber oksit yüzeylerinin parlatılması ve verim hesapları, Postgraduate, İ.ER(Student), 2005
- ÖZER M., Metal-yalıtkan-yarıiletken (MYY) yapılarda akım iletimi ve sığa özellikleri, Postgraduate, Y.BAŞ(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of temperature-dependent electrical parameters in a Schottky barrier diode with multi-walled carbon nanotube (MWCNT) interface**
Ezgin H., Demir E., ACAR S., ÖZER M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.147, 2022 (SCI-Expanded)
- II. **Investigation of Electrical and Structural Properties of Ag/TiO₂/n-InP/Au Schottky Diodes with Different Thickness TiO₂ Interface**
Bilgili A. K., Cagatay R., ÖZTÜRK M., ÖZER M.
SILICON, vol.14, no.6, pp.3013-3018, 2022 (SCI-Expanded)
- III. **TiO₂ Interface Instead of SiO₂ in Terms of Dielectric Coefficient**
Bilgili A. K., Öztürk M., Özçelik S., Özer M.
BRAZILIAN JOURNAL OF PHYSICS, vol.51, no.3, pp.527-531, 2021 (SCI-Expanded)
- IV. **An experimental study on determination of the shottky diode current-voltage characteristic depending on temperature with artificial neural network**
Colak A. B., Guzel T., Yildiz O., ÖZER M.
PHYSICA B-CONDENSED MATTER, vol.608, 2021 (SCI-Expanded)
- V. **Investigation of electrical parameters of Au/P3HT:PCBM/n-6H-SiC/Ag Schottky barrier diode with different current conduction models**

- Altan H., ÖZER M., Ezgin H.
SUPERLATTICES AND MICROSTRUCTURES, vol.146, 2020 (SCI-Expanded)
- VI. **Current-voltage characteristics of Ag/TiO₂/n-InP/Au Schottky barrier diodes**
Bilgili A. K., Guzel T., ÖZER M.
JOURNAL OF APPLIED PHYSICS, vol.125, no.3, 2019 (SCI-Expanded)
- VII. **Investigation of inhomogeneous barrier height for Au/n-type 6H-SiC Schottky diodes in a wide temperature range**
Guzel T., Bilgili A. K., ÖZER M.
SUPERLATTICES AND MICROSTRUCTURES, vol.124, pp.30-40, 2018 (SCI-Expanded)
- VIII. **Low-Concentration NO₂ Gas Sensor Based on HfO₂ Thin Films Irradiated by Ultraviolet Light**
Karaduman I., Barin O., ÖZER M., ACAR S.
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.3914-3920, 2016 (SCI-Expanded)
- IX. **Peculiarities of the charge transport in the gas discharge electronic device with irradiated porous zeolite**
Ozturk S., Koseoglu K., ÖZER M., Salamov B. G.
MODERN PHYSICS LETTERS B, vol.29, no.31, 2015 (SCI-Expanded)
- X. **Field-Enhanced Transport Processes in the Gas Discharge System With Porous Zeolite**
Koseoglu K., ÖZER M., Salamov B. G.
IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.43, no.10, pp.3576-3581, 2015 (SCI-Expanded)
- XI. **Electrical Properties of Microdischarge in Porous Zeolites**
Koseoglu K., ÖZER M., Salamov B. G.
PLASMA PROCESSES AND POLYMERS, vol.11, no.11, pp.1018-1027, 2014 (SCI-Expanded)
- XII. **Electro-optical properties of porous zeolite cathode in the gas discharge electronic devices for plasma light source applications**
Koseoglu K., ÖZER M., Ozturk S., Salamov B. G.
JAPANESE JOURNAL OF APPLIED PHYSICS, vol.53, no.8, 2014 (SCI-Expanded)
- XIII. **Impurity conduction in In_xGa_{1-x}As**
KASAP M., ÖZER M., Çolakoğlu K.
Turkish Journal of Physics, vol.20, no.7, pp.740-746, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. **Yüksek Sıcaklıklarda Ag n GaP Schottky Diyotunun Elektronik Parametrelerinin İncelenmesi**
DAĞDELEN F., ÖZER M.
Politeknik Dergisi, vol.18, no.2, pp.93-97, 2015 (Peer-Reviewed Journal)
- II. **[CITATION] The Effect of The Oxidation on GaAs Semiconductor Surface to the System Characteristics in A Double-Gapped Plasma Cell**
KURT H. H., Kalkan G., ÖZER M., Tanrıverdi E., Yiğit D.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, pp.161, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **ARAYÜZEY TABAKALI SCHOTTKY BARIYER DİYOTUNDA AKIM-İLETİMİNİN İNCELENMESİ**
EKİZ K., EZGİN H., ÇAĞIRTEKİN A. O., ÖZER M.
1. ULUSLARARASI FEN ve UYGULAMALI BİLİMLER KONGRESİ, Adıyaman, Turkey, 13 July 2021
- II. **Polimer arayüzey tabakalı SiC Schottky bariyer diyotunun akım-gerilim mekanizmalarının incelenmesi**
ÖZER M., Altan H.
23. yoğun madde fiziği Ankara toplantısı, Ankara, Turkey, 22 December 2017

- III. **voltage-current characteristics of Au/n-CdTe Schottky diode at different light intensities and frequencies**
ÖZER M.
International conference on condensed matter and materials science, 11 - 15 October 2017
- IV. **voltage-current characteristics of Au/SiC schottky barrier diode with organic interface**
ÖZER M., Güzel T.
International Conference on condensed Matter and Materials Science, 11 - 15 October 2017
- V. **the pressure-driven Dc conduction mechanism in porous materials**
KOÇUM İ. C., SALAMOV B., ÖZER M.
THERMAM 2017, Rostock, Germany, 17 - 18 July 2017
- VI. **electrical measurements of SiC/Au Schottky diode in a wide temperature range**
ÖZER M., Güzel T., SALAMOV B.
Thermam 2017, Germany, 17 - 18 July 2017
- VII. **The effect of electric field on the transport properties of the porous zeolite microstructure**
Soltabayev B., ÖZER M., BUNYATOVA U., KOÇUM İ. C., Salamov B., ACAR S.
ICASA 2017, 29 - 31 March 2017, pp.63
- VIII. **Metal yarıiletken Schottky engelli yapılarda akım iletim mekanizmaları**
ÖZER M., Bilgili A. K., SALAMOV B.
22. Yoğun Madde Fiziği Ankara Toplantısı, Turkey, 16 December 2016
- IX. **Metal Yarıiletken Schottky Engelli Yapılarda Akım İletim Mekanizmaları**
ÖZER M., Bilgili A. K., SALAMOV B.
22. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 16 December 2016
- X. **The parameters of Ag TiO₂ n InP Au Schottky barrier diodes dependent on thickness of interfacial layer**
Bilgili A. K., ÖZER M.
2nd International Congress on the World of Technology and Advanced Materials, 28 September - 02 October 2016
- XI. **Temperature dependent current voltage characteristics of Au P3HT n 6H SiC Au Structure**
ÖZER M., Güzel T., SALAMOV B.
2nd International Congress on the World of Technology and Advanced Materials, 28 September - 02 October 2016
- XII. **Determining the parameters of the Schottky barrier diodes with interfacial layer by using current voltage characteristics**
Bilgili A. K., ÖZER M.
2nd International Congress on the World of Technology and Advanced Materials, 28 September - 02 October 2016
- XIII. **Current voltage characteristics of Schottky barrier diode dependent on temperature**
Bilgili A. K., ÖZER M.
3rd International Conference On the Thermophysical And Mechanical Properties Of Advanced Materials (THERMAM 2016), 1 - 03 September 2016
- XIV. **Electrical parameters of Ag TiO₂ InP Au structure**
Bilgili A. K., ÖZER M.
International Physics Conference at the Anatolian Peak (IPCAP 2016), 25 - 27 February 2016
- XV. **Effects of thickness on gas sensing properties of HfO₂ thin films**
KARADUMAN I., BARİN Ö., ÖZER M., ACAR S.
The Proceedings of Third European Conference on Renewable Energy Systems – ECRES 2015, Antalya, Turkey, 7 - 10 October 2015
- XVI. **The current voltage characteristics of Ag TiO₂ n InP Au Schottky barrier diodes**
ÖZER M., Bilgili A. K.
International conference: "Thermophysical and Mechanical Properties of Advanced Materials and 4th Rostocker International Symposium: "Thermophysical Properties for Technical Thermodynamics, 17 - 18 September 2015
- XVII. **Influence of annealing atmosphere on the HfO₂ Based Gas Sensors**
KARADUMAN I., BARİN Ö., ÖZER M., YILDIZ D. E., ACAR S.
6th International Science and Technology Conference (ISTEC), 2 - 04 September 2015

- XVIII. **Long Term Stability and Sensitivity on the Metal Oxide Sensing Surface**
ÇORLU T., KARADUMAN I., BARİN Ö., ÖZER M., ACAR S.
9th International Physics Conference of the Balkan Physical Union (BPU-9), 24 - 27 August 2015
- XIX. **Ag TiO₂ n InP Schottky bariyer diyodun akım voltaj karakteristikleri**
AHMET KÜRŞAT B., ÖZER M.
Adım Fizik Günleri 4, Turkey, 28 - 29 May 2015
- XX. **n InP üzerinde oluşturulan TiO₂ tabakalı metal yarıiletken kontağın akım gerilim özelliklerinden parametrelerinin belirlenmesi**
BİLGİLİ A. K., ÖZER M.
21. Yoğun Madde Fiziği Ankara Toplantısı, Turkey, 25 December 2015
- XXI. **Electrical properties of Au n 6H SiC Au Schottky barrier diode in wide temperature range**
Güzel T., ÖZER M.
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- XXII. **Organic semiconductor based gas sensors**
GÜZEL T., KARADUMAN I., ÖZER M., ACAR S.
4. Ulusal Kristolografi Toplantısı, Diyarbakır, Turkey, 17 - 19 May 2014

Supported Projects

ÖZER M., Project Supported by Higher Education Institutions, Yarıiletken ve MS, MIS yapıların gaz ile etkileşmesinin incelenmesi, 2011 - 2014

ÖZER M., Project Supported by Higher Education Institutions, Gaz boşalma plazmasının yarıiletken yüzeyine etkisi, 2011 - 2014

ÖZER M., Project Supported by Higher Education Institutions, Metal-Yarıiletken ve Metal-Yalıtkan -Yarıiletken Yapılarının Optik Özelliklerinin İncelenmesi, 2007 - 2009

ÖZER M., Project Supported by Higher Education Institutions, Metal-Yarıiletken Kontakların Güneş Pili ve Detektör Sensörü Olarak Yapımı ve Parametrelerinin Belirlenmesi, 2005 - 2008

ÖZER M., Project Supported by Higher Education Institutions, SnO₂ Arayüzeyli Metal-Yalıtkan-Yarıiletken (MIS) Yapıların Bazı Parametrelerinin İncelenmesi, 2003 - 2005

ÖZER M., Project Supported by Higher Education Institutions, Yarı İletken Gaz Boşalma Sisteminde Çokosilasyonlu Desenlerin İncelenmesi, 2003 - 2004

ÖZER M., Project Supported by Higher Education Institutions, Yarıiletken Stronsiyum-Titanyum-Oksit (SrTiO₃) Filmlerinin Fiziksel Özelliklerinin İncelenmesi, 2002 - 2003

ÖZER M., Project Supported by Higher Education Institutions, Yeni Koherent Kızılötesi Görüntü Çeviricinin Tasarımı,Yapımı ve Özelliklerinin İncelenmesi, 2002 - 2003

ÖZER M., Project Supported by Higher Education Institutions, CCD Teknolojisine dayalı lan iyonizasyon tipli görüntü çevirici ile kızıl ötesi ışınların görüntülenmesi (Bu dosyanın yürütücüsü Doç.Dr.Bahtiyar SALAMOVdur.), 2001 - 2002

ÖZER M., Project Supported by Higher Education Institutions, Yarıiletkenlerin plazma etkileşmesinin inc., 2001 - 2002

ÖZER M., Project Supported by Higher Education Institutions, Yarı iletken dedektör imalatı ve fiziksel özelliklerinin incelenmesi, 1999 - 1999

Metrics

Publication: 37
Citation (WoS): 66
Citation (Scopus): 44
H-Index (WoS): 5
H-Index (Scopus): 5