

## Prof. METİN ÖZER

### Personal Information

**Email:** metinoz@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/metinoz>

### International Researcher IDs

ORCID: 0000-0002-6656-0786

Yoksis Researcher ID: 108738

### 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/TiO<sub>2</sub>/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 SiO<sub>2</sub> 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 (CO<sub>2</sub>) 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/TiO<sub>2</sub>/n-InP/Au Schottky Diodes with Different Thickness TiO<sub>2</sub> Interface**  
Bilgili A. K., Cagatay R., ÖZTÜRK M., ÖZER M.  
SILICON, vol.14, no.6, pp.3013-3018, 2022 (SCI-Expanded)
- III. **TiO<sub>2</sub> Interface Instead of SiO<sub>2</sub> 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/TiO<sub>2</sub>/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 NO<sub>2</sub> Gas Sensor Based on HfO<sub>2</sub> 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<sub>x</sub>Ga<sub>1-x</sub>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-POLİTEKNİK DERGİSİ, 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 TiO<sub>2</sub> 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 TiO<sub>2</sub> 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 HfO<sub>2</sub> 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 TiO<sub>2</sub> 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 HfO<sub>2</sub> 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 TiO<sub>2</sub> 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 TiO<sub>2</sub> tabakalı metal yarıiletken kantağın 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, SnO<sub>2</sub> 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 (SrTiO<sub>3</sub>) 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