

## **Assoc. Prof. Abdullah Özkartal**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: ABH-6441-2020

ScopusID: 56572816700

Yoksis Researcher ID: 17838

### **Education Information**

Doctorate, Van Yüzüncü Yıl University, Fen Fak/Fen Bilimleri Enstitüsü, Fizik, Turkey 2009 - 2015

### **Foreign Languages**

English, B1 Intermediate

### **Dissertations**

Doctorate, Kimyasal Yüzey Temizleme İşleminin Sn/p-Si/Al Schottky Tipi Fotovoltaik Karakteristikleri Üzerine Etkileri, Van Yüzüncü Yıl University, Fen Fakültesi, Fizik, 2015

### **Research Areas**

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Natural Sciences

### **Academic Titles / Tasks**

Associate Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Fizik Bölümü, 2022 - Continues

Assistant Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Fizik Bölümü, 2016 - 2022

### **Academic and Administrative Experience**

Deputy Head of Department, Van Yüzüncü Yıl University, Fen Fakültesi, Fizik Bölümü, 2022 - Continues

Van Yüzüncü Yıl University, Fen Fakültesi, Fizik, 2016 - 2017

## Courses

Thin Film Physics, Postgraduate, 2023 - 2024

GENEL FİZİK II, Undergraduate, 2015 - 2016

Yarıiletken Malzemelerin Temelleri I, Postgraduate, 2016 - 2017

GENEL FİZİK I, Undergraduate, 2015 - 2016

GENEL FİZİK I, Undergraduate, 2015 - 2016

GENEL FİZİK II, Undergraduate, 2015 - 2016

## Advising Theses

Özkartal A., Production of p-NiO/n-GaAs heterojunction structures by thermal evaporation method and their characterization, Postgraduate, D.THAER(Student), 2021

Özkartal A., Bi1.6Pb0.4Sr2Ca3Cu4O12 SÜPERİLETKENİN ÇUBUK FORMUNDU ÜRETİMİ VE KARAKTERİZASYONU, Postgraduate, O.Nuri(Student), 2018

Özkartal A., ORGANİK (METİL MORU) ARAYÜZYEY TABAKANIN Sn/p-Si/Al SCHOTTKY DİYOTLARININ ELEKTRİKSEL KAREKTERİSTİKLERİ ÜZERİNE ETKİLERİ, Postgraduate, R.Hasan(Student), 2016

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. Effect of silver nanoparticles prepared by green chemistry on the photovoltaic properties of zinc phthalocyanine  
Ödemiş Ö., Ağırtaş M. S., Güngördü Solğun D., Özkartal A.  
Chemical Papers, 2024 (SCI-Expanded)
- II. Synthesis of (2-(4-methylthiazol-5-yl) ethoxy)-substituted silicon phthalocyanine and novel green silver nanoparticles: DSSC targets  
Ağırtaş M. S., Ödemiş Ö., Özkartal A.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.46, no.1, pp.3177-3193, 2024 (SCI-Expanded)
- III. Synthesis of phthalocyanine complexes carrying caffeic acid groups: increasing photovoltaic performance by doping silver nanoparticles  
Güngördü Solğun D., Özkartal A., Ağırtaş M. S.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.45, no.1, pp.2240-2252, 2023 (SCI-Expanded)
- IV. Synthesis of silver nanoparticles formed by Chaerophyllum macrospermum and Eremurus spectabilis biomaterial and investigation of photovoltaic parameters by adding silicon phthalocyanine  
Ağırtaş M. S., Ödemiş Ö., Solğun D., Tanrıverdi A. A., Özkartal A.  
Journal of Coordination Chemistry, vol.76, no.11-12, pp.1471-1484, 2023 (SCI-Expanded)
- V. Photovoltaic performance properties, DFT studies, and synthesis of (E)-3-(diphenxy) acrylic acid substituted phthalocyanine complexes  
Güngördü Solğun D., Yıldiko Ü., Özkartal A., Ağırtaş M. S.  
Chemical Papers, vol.75, pp.6285-6295, 2021 (SCI-Expanded)
- VI. Effects of thermal annealing on the characterization of p-NiO/n-GaAs heterojunctions produced by thermal evaporation  
Özkartal A., Noori D. T.  
Journal of Materials Science: Materials in Electronics, vol.32, pp.13462-13471, 2021 (SCI-Expanded)
- VII. Design of novel substituted phthalocyanines; synthesis and fluorescence, DFT, photovoltaic properties

- Ağırtas M. S., Güngördü Solğun D., Yıldiko Ü., Özkartal A.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.6, pp.1574-1596, 2020 (SCI-Expanded)
- VIII. Characterization of the ITO/p-Si/Al contacts produced by thermal evaporation  
Özkartal A.  
VACUUM, vol.168, 2019 (SCI-Expanded)
- IX. Characterization of CuO/n-Si heterojunction solar cells produced by thermal evaporation  
Ozmentes R., Temirci C., Özkartal A., EJDERHA K., YILDIRIM N.  
MATERIALS SCIENCE-POLAND, vol.36, no.4, pp.668-674, 2018 (SCI-Expanded)
- X. Relationship between photovoltaic and diode characteristic parameters in the Sn/p-Si Schottky type photovoltaics  
Özkartal A., Temirci C.  
SOLAR ENERGY, vol.132, pp.96-102, 2016 (SCI-Expanded)
- XI. Measurements of K-shell X-ray production cross-sections and fluorescence yields for some elements in the atomic number range  $28 \leq Z \leq 40$   
Yilmaz R., Tunc H., Ozkartal A.  
RADIATION PHYSICS AND CHEMISTRY, vol.112, pp.83-87, 2015 (SCI-Expanded)

### Articles Published in Other Journals

- I. Termal buharlaştırma yöntemi ile üretilen n-ZnO/p-Si heteroeklem kontaklarının elektriksel ve optiksel karakterizasyonu  
ÖZKARTAL A.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.10, no.3, pp.902-910, 2021 (Peer-Reviewed Journal)
- II. Ni/n-GaAs ve NiO/n-GaAs Diyotların Elektriksel Parametreleri Arasındaki İlişki  
ÖZKARTAL A., Noori D. T.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.10, no.2, pp.415-422, 2021 (Peer-Reviewed Journal)
- III. Bi<sub>1.6</sub>Pb<sub>0.4</sub>Sr<sub>2</sub>Ca<sub>3</sub>Cu<sub>4</sub>O<sub>12</sub> Çubuk Şeklinde Üretilen Süperiletken Üzerinde Doğru Akım Tavlamanının Etkisi  
Özkartal A., ENİS O. N.  
Van Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.2, pp.123-128, 2018 (Peer-Reviewed Journal)
- IV. Measurement of K-shell production cross-section and fluorescence yield for Y element  
Özkartal A., TUNÇ H., Yilmaz R., ÖZMEN T.  
AMERICAN JOURNAL OF PHYSICS AND APPLICATION, vol.3, pp.1-5, 2015 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. BOYAYA DUYARLI GÜNEŞ PİLLERİ YAPISINDA TiO<sub>2</sub> ve ZnO FOTOANOTLARIN PİL VERİMİNE ETKİSİ  
ÖZKARTAL A., Esen S.  
1. BİLSEL INTERNATIONAL TURABDİN SCIENTIFIC RESEARCHES AND INNOVATION, 23-24 DECEMBER,  
MARDİN/TÜRKİYE, Mardin, Turkey, 23 December 2023, vol.1, pp.336-343
- II. Optical and structural properties of ZnO thin films produced by thermal evaporation  
ÖZKARTAL A.  
International Marmara Sciences Congress (Spring 2021) - IMASCONGRESS, Kocaeli, Turkey, 21 May 2021, pp.113
- III. THE EFFECT OF ANNEALING ON NiO THIN FILM PRODUCED BY THERMAL EVAPORATION  
Özkartal A.  
3RD INTERNATIONAL CONFERENCE ON PHYSICAL CHEMISTRY & FUNCTIONAL MATERIALS, Malatya, Turkey, 22 - 24 September 2020, pp.30
- IV. Electrical properties of Sn/Methyl Violet/p-Si/Al Schottky diodes

Özkartal A., Ameen R. H. H., Temirci C., TÜRÜT A.

International Congress on Semiconductor Materials and Devices (ICSMD), Konya, Turkey, 17 - 19 August 2017,  
vol.18, pp.1811-1818

V. **Ohmic and rectifier properties of Al/Ligand(N-APTH) and Al/Cu(II) complex contacts**

Secuk M. N., Gökşen K., Temirci C., Gülcen M., Sönmez M., Özkartal A.

27th International Physics Congress, İstanbul, Turkey, 14 - 17 September 2010, pp.682

## Supported Projects

Özkartal A., Project Supported by Higher Education Institutions, Production of p-NiO / n-GaAs HeteroJunction Contacts, Investigation of Photovoltaic and Electrical Properties, 2018 - 2021

## Metrics

Publication: 22

Citation (WoS): 78

Citation (Scopus): 81

H-Index (WoS): 7

H-Index (Scopus): 7