

Assoc. Prof. Abdullah Özkartal

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International Researcher IDs

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

ScopusID: 56572816700

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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., Bi_{1.6}Pb_{0.4}Sr₂Ca₃Cu₄O₁₂ SÜPERİLETKENİN ÇUBUK FORMUNDA ÜRETİMİ VE KARAKTERİZASYONU, Postgraduate, O.Nuri(Student), 2018
Özkartal A., ORGANİK (METİL MORU) ARAYÜZEY 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., Yıldırım 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., Yildiko 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 kontakların 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_{1.6}Pb_{0.4}Sr₂Ca₃Cu₄O₁₂ Çubuk Şeklinde Üretilen Süperiletken Üzerinde Doğru Akım Tavlamanın 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., Yılmaz 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 TiO₂ 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., Gülcan 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