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International Researcher IDs

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Publons / Web Of Science ResearcherID: CAG-0770-2022

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2012 - 2015

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2010 - 2011

Undergraduate, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 2005 - 2010

Dissertations

Doctorate, Au/(1 grafen (GP) katkılı)-Ca_{1.9}Pr_{0.1}Co₄O_x/n-Si Schottky engel diyotların hazırlanması ve elektrik ile dielektrik özelliklerinin sıcaklık ve frekansa bağlı incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2015

Postgraduate, Au/(Bi-katkılı) polivinil alkol/n-si schottky engel diyotlarının elektriksel özelliklerinin sıcaklığa ve aydınlatma şiddetine bağlı incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2011

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikleri Bölümü, 2023 - Continues

Associate Professor, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikleri Bölümü, 2018 - 2023

Lecturer, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikleri Bölümü, 2012 - 2018

Academic and Administrative Experience

Director of Vocational School, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikleri Bölümü, 2023 - Continues

Head of Department, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikleri Bölümü, 2022 - Continues

Assistant Director of Vocational School, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikleri Bölümü, 2022 - 2023

Deputy Head of Department, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikleri Bölümü, 2020 - 2022

Farabi Program Institutional Coordinator, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, 2019 - 2022

Mevlana Exchange Program Institutional Coordinator, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, 2019 - 2022

Erasmus Program Institutional Coordinator, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, 2018 - 2022

Courses

Medikal Görüntüleme ve Teknikleri, Postgraduate, 2023 - 2024

RADYOLOJİYE GİRİŞ, Associate Degree, 2023 - 2024

RADYOLOJİK GÖRÜNTÜLEME FİZİĞİ II, Associate Degree, 2023 - 2024

Doğrusal Olmayan Optik Özellikler, Postgraduate, 2022 - 2023

MESLEKİ UYGULAMA, Associate Degree, 2020 - 2021

BİYOMEDİKAL TEKNOLOJİ, Associate Degree, 2020 - 2021

MESLEKİ İNGİLİZCE, Associate Degree, 2020 - 2021

SOSYAL SORUMLULUK, Associate Degree, 2020 - 2021

Biyofizik, Associate Degree, 2020 - 2021

SOSYAL SORUMLULUK, Associate Degree, 2017 - 2018, 2016 - 2017

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

NÜKLEER TIP, Associate Degree, 2017 - 2018, 2016 - 2017

MEKANİK LABORATUVARI, Undergraduate, 2017 - 2018, 2016 - 2017

TEMEL FİZİK, Associate Degree, 2017 - 2018, 2016 - 2017

BİYOMEDİKAL, Associate Degree, 2017 - 2018, 2016 - 2017

GENEL FİZİK 2, Undergraduate, 2017 - 2018

BİYOFİZİK, Associate Degree, 2017 - 2018, 2016 - 2017

BİYOMEDİKAL TEKNOLOJİ, Associate Degree, 2017 - 2018, 2016 - 2017

MEDİKAL TEKNOLOJİ, Associate Degree, 2017 - 2018, 2016 - 2017

ARAŞTIRMA PROJESİ, Associate Degree, 2017 - 2018, 2016 - 2017

MESLEKİ İNGİLİZCE, Associate Degree, 2017 - 2018, 2016 - 2017

ELEKTRİK LABORATUVARI, Undergraduate, 2017 - 2018, 2016 - 2017

GENEL FİZİK 1, Undergraduate, 2017 - 2018

GENEL FİZİK-2, Undergraduate, 2016 - 2017

TEKNOLOJİNİN BİLİMSEL İLKELERİ, Associate Degree, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Examination of Electrical and Dielectric Parameters of Au/n-Si Schottky Barrier Diodes (SBDs) with Organic Perylene Interlayer Using Impedance Measurements Under Various Illumination Intensities**
Bengi S., ÇETİNKAYA H. G., ALTINDAL Ş., Zeyrek S.
Journal of Electronic Materials, vol.53, no.9, pp.5606-5616, 2024 (SCI-Expanded)
- II. **Investigation of the frequency effect on electrical modulus and dielectric properties of Al/p-Si structure with %0.5 Bi:ZnO interfacial layer**
Bengi S., ÇETİNKAYA H. G., ALTINDAL Ş., DURMUŞ P.
Ionics, vol.30, no.6, pp.3651-3659, 2024 (SCI-Expanded)
- III. **The Frequency Dependent of Main Electrical Parameters, Conductivity and Surface States in the Al/(%0.5 Bi:ZnO)/p-Si/Au (MIS) Structures**

ÇETİNKAYA H. G., Bengi S., DURMUŞ P., Demirezen S., ALTINDAL Ş.

Silicon, vol.16, no.5, pp.2315-2322, 2024 (SCI-Expanded)

- IV. **The capacitance/conductance and surface state intensity characteristics of the Al/(CMAT)/p-Si structures**
ÇETİNKAYA H. G., Bengi S., SEVGİLİ Ö., ALTINDAL Ş.
Physica Scripta, vol.99, no.2, 2024 (SCI-Expanded)
- V. **Frequency-dependent electrical parameters and extracted voltage-dependent surface states in Al/DLC/p-Si structure using the conductance method**
ŞAFAK ASAR Y., Feizollahi Vahid A., Basman N., ÇETİNKAYA H. G., ALTINDAL Ş.
Applied Physics A: Materials Science and Processing, vol.129, no.5, 2023 (SCI-Expanded)
- VI. **The investigation of current-transport mechanisms (CTMs) in the Al/(In₂S₃:PVA)/p-Si (MPS)-type Schottky barrier diodes (SBDs) at low and intermediate temperatures**
Demirezen S., Arslan Alsaç A., ÇETİNKAYA H. G., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, vol.34, no.14, 2023 (SCI-Expanded)
- VII. **On the wide range frequency and voltage dependence of electrical features and density of surface states of the Al/(Cu:DLC)/p-Si/Au Schottky diodes (SDs)**
ÇETİNKAYA H. G., Feizollahi Vahid A., Basman N., Demirezen S., ŞAFAK ASAR Y., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, vol.34, no.9, 2023 (SCI-Expanded)
- VIII. **Vertical CdTe:PVP/p-Si - Based Temperature Sensor by Using Aluminum Anode Schottky Contact**
ÇETİNKAYA H. G., Cicek O., ALTINDAL Ş., Badali Y., Demirezen S.
IEEE Sensors Journal, vol.22, no.23, pp.22391-22397, 2022 (SCI-Expanded)
- IX. **Doping rate, Interface states and Polarization Effects on Dielectric Properties, Electric Modulus, and AC Conductivity in PCBM/NiO:ZnO/p-Si Structures in Wide Frequency Range**
Demirezen S., Cetinkaya H. G., ALTINDAL Ş.
SILICON, vol.14, no.14, pp.8517-8527, 2022 (SCI-Expanded)
- X. **Electrical parameters of Au/(%1Ni-PVA)/n-Si (MPS) structure: Surface states and their lifetimes**
Cetinkaya H. G., Demirezen S., Yeriskin S.
PHYSICA B-CONDENSED MATTER, vol.621, 2021 (SCI-Expanded)
- XI. **Synthesis, electrical and photo-sensing characteristics of the Al/(PCBM/NiO: ZnO)/p-Si nanocomposite structures**
Demirezen S., Cetinkaya H. G., Kara M., Yakuphanoglu F., ALTINDAL Ş.
SENSORS AND ACTUATORS A-PHYSICAL, vol.317, 2021 (SCI-Expanded)
- XII. **The fabrication of Al/p-Si (MS) type photodiode with (%2 ZnO-doped CuO) interfacial layer by sol gel method and their electrical characteristics**
ÇETİNKAYA H. G., SEVGİLİ Ö., ALTINDAL Ş.
PHYSICA B-CONDENSED MATTER, vol.560, pp.91-96, 2019 (SCI-Expanded)
- XIII. **Frequency and Voltage Dependent Profile of Dielectric Parameters and Electric Modulus for Al/(HgS-PVA)/p-Si Capacitor via Impedance Spectroscopy Method**
Cetinkaya H. G.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.13, no.3, pp.421-427, 2018 (SCI-Expanded)
- XIV. **Diode-to-diode variation in dielectric parameters of identically prepared metal-ferroelectric-semiconductor structures**
Cetinkaya H. G., Yildirim M., Durmus P., Altindal Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.728, pp.896-901, 2017 (SCI-Expanded)
- XV. **Correlation between barrier height and ideality factor in identically prepared diodes of Al/Bi₄Ti₃O₁₂/p-Si (MFS) structure with barrier inhomogeneity**
Cetinkaya H. G., Yildirim M., Durmus P., Altindal Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.721, pp.750-756, 2017 (SCI-Expanded)
- XVI. **Electrical characteristics of Au/n-Si (MS) Schottky Diodes (SDs) with and without different rates (graphene + Ca_{1.9}Pr_{0.1}Co₄O_x-doped poly(vinyl alcohol)) interfacial layer**

Cetinkaya H. G., Altindal Ş., Orak I., Uslu I.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.11, pp.7905-7911, 2017 (SCI-Expanded)

- XVII. **A comparative study on the electrical parameters of Au/n-Si Schottky diodes with and without interfacial (Ca_{1.9}Pr_{0.1}Co₄O_x) layer**

Kaya A., Cetinkaya H. G., Altindal Ş., Uslu I.

INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.30, no.16, 2016 (SCI-Expanded)

- XVIII. **On the temperature dependent forward bias current-voltage (I-V) characteristics in Au/2% graphene-cobalt doped (Ca₃Co₄Ga_{0.001}O_x)/n-Si structure**

Maril E., Kaya A., Cetinkaya H. G., Kocyigit S., Altindal Ş.

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.39, pp.332-338, 2015 (SCI-Expanded)

- XIX. **Electrical and dielectric properties of Au/1% graphene (GP)+Ca_{1.9}Pr_{0.1}Co₄O_x doped poly(vinyl alcohol)/n-Si structures as function of temperature and voltage**

Cetinkaya H. G., Kaya A., Altindal Ş., Kocyigit S.

CANADIAN JOURNAL OF PHYSICS, vol.93, no.10, pp.1213-1220, 2015 (SCI-Expanded)

- XX. **Investigation of negative dielectric constant in Au/1 % graphene (GP) doped-Ca_{1.9}Pr_{0.1}Co₄O_x/n-Si structures at forward biases using impedance spectroscopy analysis**

Cetinkaya H. G., Alialy S., Altindal Ş., Kaya A., Uslu I.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.26, no.5, pp.3186-3195, 2015 (SCI-Expanded)

- XXI. **On the negative capacitance behavior in the forward bias of Au/n-4H-SiC (MS) and comparison between MS and Au/TiO₂/n-4H-SiC (MIS) type diodes both in dark and under 200 W illumination intensity**

Cetinkaya H. G., Yildiz D. E., Altindal Ş.

INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.29, no.1, 2015 (SCI-Expanded)

- XXII. **Photovoltaic characteristics of Au/PVA (Bi-doped)/n-Si Schottky barrier diodes (SBDs) at various temperatures**

Cetinkaya H. G., Tecimer H., Uslu H., Altindal Ş.

CURRENT APPLIED PHYSICS, vol.13, no.6, pp.1150-1156, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Aynı Şartlarda Hazırlanmış Al/Bi₃Ti₄O₁₂/n-Si (MFS) diyotların (60 Adet) Engel Yükseklikleri İle İdealite Faktörlerindeki Dağılım**

ÇETİNKAYA H. G.

Fen Bilimleri Dergisi PART C: TASARIM VE TEKNOLOJİ, vol.5, no.3, pp.89-96, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of frequency and voltage dependent dielectric properties, electric modulus and electrical conductivity in the Al/(5 Coumarin doped PVA)/p-Si (MPS) capacitors using impedance spectroscopy method**

DEMİREZEN S., SEÇKİN A. Y., ÇETİNKAYA H. G.

International Materials Science and Nanotechnology for Next Generation (MSNG2018), 4 - 07 October 2018

- II. **A comparative Study on the Au/p-Si diodes with and without different rate (0,1, 0,5, 2) ZnO-doped CuO interfacial layer**

ÇETİNKAYA H. G., ALTINDAL Ş., DEMİREZEN S.

International Materials Science and Nanotechnology for Next Generation (MSNG2018), 4 - 07 October 2018

- III. **Photocurrent characteristics of Au/ p-Si (MS) type photo-diode with (2 ZnO-doped CuO)/ Interfacial**

layer by sol gel method

ALTINDAL Ş., ÇETİNKAYA H. G.

International Materials Science and Nanotechnology for Next Generation (MSNG2018), 4 - 07 October 2018

- IV. **A Comparative Study on The Electrical Characteristics of Au/p-Si diodes with and without different rate (0.1, 0.5 and 2) ZnO-doped CuO interfacial layer**
ÇETİNKAYA H. G., ALTINDAL Ş., DEMİREZEN S.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), 4 - 06 October 2018
- V. **Çeşitli oranlarda ZnO katkılı CuO arayüzey tabakalı Al/p-Si (MS) Diyotlarının Akım-Voltaj (I-V) Karakteristiklerinin Oda Sıcaklığında İncelenmesi**
ÇETİNKAYA H. G., SEÇKİN A. Y.
VII. YOĞUN MADDE FİZİĞİİZMİR TOPLANTISI, Turkey, 13 April 2018
- VI. **Farklı Oranlarda ZnO Katkılı CuO Arayüzey Tabakalı Al/p-Si (MS) Diyotların Kapasitans-Voltaj (C-V) ve Kondüktans-Voltaj (G/ -V) Karakteristiklerinin İncelenmesi**
ÇETİNKAYA H. G., SEÇKİN A. Y.
VII. YOĞUN MADDE FİZİĞİİZMİR TOPLANTISI, Turkey, 13 April 2018
- VII. **Dielectric Constant, Electric Modulus and Electrical Conductivity in Identically Prepared Diodes of Al/Bi₄Ti₃O₁₂/p-Si (MFS) Structure with Barrier and Thickness Inhomogeneity**
DURMUŞ P., ÇETİNKAYA H. G., YILDIRIM M., ALTINDAL Ş., DÖKME İ.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017
- VIII. **Surface States, Series Resistance and Interfacial Bi₄Ti₃O₁₂ Layer Effects on the Electrical and dielectric Properties of Al/Bi₄Ti₃O₁₂/p-Si (MFS) Structure**
ÇETİNKAYA H. G., YILDIRIM M., DURMUŞ P., ALTINDAL Ş.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017
- IX. **Complex Dielectric Constant and Complex Electric Modulus of Al/Bi₄Ti₃O₁₂/p-Si (MFS) Structures as Function of Voltage at Room Temperature**
ÇETİNKAYA H. G., ALTINDAL Ş.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017
- X. **The correlation between barrier heights (BHs) and ideality factors (n) in identically prepared Al/Bi₃Ti₄O₁₂/n-Si (MFS) structures**
ÇETİNKAYA H. G.
NANOSCIENCE NANOTECHNOLOGY FOR NEXT GENERATION (NaNoNG 2016), 20 - 22 October 2016
- XI. **Electrical and Dielectric Properties in identically fabricated Al/Bi₃Ti₄O₁₂/n-Si (MFS) structures by Capacitance/Conductance-Voltage Measurements**
ÇETİNKAYA H. G., ALTINDAL Ş.
2nd International Advanced and Functional Materials Technologies (AFMAT 2016), 20 - 22 October 2016
- XII. **Electrical and Dielectric Properties in identically fabricated Al Bi₃Ti₄O₁₂ 2In Si MFS structures by Capacitance Conductance Voltage Measurements**
ÇETİNKAYA H. G., ALTINDAL Ş.
2nd international Advanced and Functional Materials Technologies (AFMAT) 2016, 20 - 22 October 2016
- XIII. **Electrical Characterization and Sources of Energy Losses in Solar Cells**
ALTINDAL Ş., ÇETİNKAYA H. G.
1st International Underground Resources and Energy Conference, 6 - 08 October 2016
- XIV. **Electrical properties of Au/3 Graphene (GP)-doped PVA/n-Si structures as function of frequency**
ÇETİNKAYA H. G., KAYA A., ALTINDAL Ş., ORAK İ.
International Semiconductor Science and Technology Conference 2015 (ISSTC2015), 11 - 13 May 2015
- XV. **Frequency and voltage-dependent electrical and dielectric properties of Au/Graphene Oxide Calcined/n-Si structures at room temperature**

ALTINDAL Ş., KAYA A., ÇETİNKAYA H. G., USLU İ.

International Semiconductor Science and Technology Conference 2015 (ISSTC2015), 11 - 13 May 2015

XVI. Some Electrical Properties of Au/n-Si Structures with and without Graphene doped PVA Interfacial Layer

ÇETİNKAYA H. G., KAYA A., ALTINDAL Ş.

International Semiconductor Science and Technology Conference 2015 (ISSTC2015), 11 - 13 May 2015

XVII. Frequency and voltage Dependent electrical and Dielectrical Properties of AU Graphene Oxide Calcined n Si Structures at Room Temperature

ALTINDAL Ş., KAYA A., ÇETİNKAYA H. G., USLU İ.

International Semiconductor Science Technology Conference, İzmir, Turkey, 10 - 13 May 2015, pp.72

XVIII. Temperature and Voltage Dependence of Electrical and Dielectric Properties of Au/1 graphene doped- Ca_{1.9}Pr_{0.1}Co₄O_x/n-Si Structure

ÇETİNKAYA H. G., KAYA A., ALTINDAL Ş., KOÇYİĞİT S.

Nanoscience Nanotechnology for Next Generation (NanoNGe'14), 20 - 22 August 2014

XIX. On the Origin of Capacitance and Anomalous Peak in the Forward Bias Capacitance-Voltage plots in Au/1 graphene doped-Ca_{1.9}Pr_{0.1}Co₄O_x/n-Si Structure.

ÇETİNKAYA H. G., ALTINDAL Ş., KAYA A., KOÇYİĞİT S.

Nanoscience Nanotechnology for Next Generation, 20 - 22 August 2014

XX. Investigation of Negative Dielectric Constant at Forward Biases Using Impedance Spectroscopy Analysis in Au/1 graphene doped- Ca_{1.9}Pr_{0.1}Co₄O_x/n-Si Structure

ÇETİNKAYA H. G., ALİALY S., ALTINDAL Ş., USLU İ., KAYA A.

Nanoscience Nanotechnology for Next Generation, 20 - 22 August 2014

XXI. On the Temperature and Voltage Dependence Forward Bias Current-Voltage (I-V) Characteristics in Au/Ca₃Co₄Ga_{0.001}O_x(2 graphene cobalt)/n-Si Structure

MARIL E., KAYA A., ÇETİNKAYA H. G., KOÇYİĞİT S., ALTINDAL Ş.

Nanoscience Nanotechnology for Next Generation (NanoNGe'14), 20 - 22 August 2014

XXII. The Effect of Series Resistance on Current-Voltage (I-V) Characteristics of Au/PVA/n-Si Schottky Barrier Diodes (SBDs) in Dark and Under Illumination Conditions

ÇETİNKAYA H. G., TECİMER H., USLU H.

Mini-Workshop on Surface Science for Inauguration of the Turkish Surface Science Society (TuSSS), Turkey, 23 May 2011

Supported Projects

Çetinkaya H. G., FP1 Project, Time to act through Sustainable Experiences to Higher Education Students (TIME2ACT@SD), 2022 - 2025

Tataroğlu A., Şafak Asar Y., Çetinkaya H. G., Project Supported by Higher Education Institutions, 05/2019-26, 2019 - 2021

Güzel A., Fırat S., Çetinkaya H. G., Erasmus Project, EQF oriented assessment tools for prior learning in adult education, 2018 - 2021

ÇETİNKAYA H. G., ŞAFAK ASAR Y., TATAROĞLU A., Project Supported by Higher Education Institutions, 05/2018-10, 2018 - 2019

ÇETİNKAYA H. G., Project Supported by Higher Education Institutions, Aynı koşullarda ve aynı yarıiletken üzerinde büyütülen BTO arayüzey tabakalı (MFS) yapıların temel elektriksel parametrelerinin kıyaslanması, 2017 - 2018

ÇETİNKAYA H. G., ŞAFAK ASAR Y., Project Supported by Higher Education Institutions, Polimer (Perylene) Arayüzey Tabakasının Diyotun Elektriksel Özellikleri Üzerine Etkisi, 2012 - 2013

Metrics

Publication: 47

Citation (WoS): 482

Citation (Scopus): 476

H-Index (WoS): 14

H-Index (Scopus): 14

Congress and Symposium Activities

9th International Conference on Materials Science and Nanotechnology for Next Generation , Attendee, Ankara, Turkey, 2022