Assoc. Prof. HAYRİYE GÖKÇEN ÇETİNKAYA

Personal Information

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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 (Yl) (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)-Ca1.9Pr0.1Co4Ox/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 (Yl) (Tezli), 2011

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2018 - Continues
Lecturer, Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2012 - 2018

Academic and Administrative Experience

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

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. **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)

II. **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)

III. **Vertical CdTe:PVP/<italic>p</italic>-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)

IV. **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)

V. **Electrical parameters of Au/(%1Ni-PVA)/n-Si (MPS) structure: Surface states and their lifetimes**
Cetinkaya H. G., Demirezen S., Yeriskin S. A.
PHYSICA B-CONDENSED MATTER, vol.621, 2021 (SCI-Expanded)

VI. **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)

VII. **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)

VIII. **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)

IX. **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)

X. **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)

XI. **Electrical characteristics of Au/n-Si (MS) Schottky Diodes (SDs) with and without different rates (graphene + Ca1.9Pr0.1Co4Ox-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)

XII. **A comparative study on the electrical parameters of Au/n-Si Schottky diodes with and without interfacial (Ca1.9Pr0.1Co4Ox) layer**
Kaya A., Cetinkaya H. G., Altindal Ş., Uslu I.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.30, no.16, 2016 (SCI-Expanded)

XIII. **On the temperature dependent forward bias current-voltage (I-V) characteristics in Au/2% graphene-cobalt doped (Ca3Co4Ga0.001Ox)/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)

XIV. **Electrical and dielectric properties of Au/1% graphene (GP)+Ca1.9Pr0.1Co4Ox 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)

XV. **Investigation of negative dielectric constant in Au/1 % graphene (GP) doped-Ca1.9Pr0.1Co4Ox/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)

XVI. **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)

XVII. **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 dielectricproperties, electric modulus and electrical conductivity in theAl/(5 Coumarin doped PVA)/p-Si (MPS) capacitors usingimpedance spectroscopy method**
DEMİREZEN S., SEÇKİN A. Y., ÇETİNKAYA H. G.
International Materials Science and Nanotechnology for Next Generation (MSNG2018), 4 - 07 October 2018

II. **Acomparative 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-diodewith (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 Bi3Ti4O 2ln Si MFS structures by Capaci tance Conductance Vol tage Measurements**
ÇETİNKAYA H. G., ALTINDAL Ş.
2nd international Advanced a6d Functionıı Materials Technologies (AFMAT) 2016, 20 - 22 October 2016

XIII. **Electrical Characterization and Sources of Energy Losses in Solar Cells**
ALTINDAL Ş., ÇETİNKAYA H. G.
lst 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 Calcineed/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- Ca1.9Pr0.1Co4Ox)/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-Ca1.9Pr0.1Co4Ox)/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- Ca1.9Pr0.1Co4Ox)/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/Ca3Co4Ga0.001Ox(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 Türkish Surface Science Society (TuSSS), Turkey, 23 May 2011

Supported Projects

ŞAFAK ASAR Y., TATAROĞLU A., ÇETİNKAYA H. G., Project Supported by Higher Education Institutions, 05/2019-26, 2019 - Continues
Güzel A., Fırat S., Çetinkaya H. G., Erasmus Project, EQF oriented assessment tools for prior learning in adult education, 2018 - 2021
ŞAFAK ASAR Y., ÇETİNKAYA H. G., 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
ŞAFAK ASAR Y., ÇETİNKAYA H. G., Project Supported by Higher Education Institutions, Polimer (Perylene) Arayüzey Tabakasının Diyotun Elektriksel Özellikleri Üzerine Etkisi, 2012 - 2013

Metrics

Publication: 40
Citation (WoS): 305
Citation (Scopus): 310
H-Index (WoS): 11
H-Index (Scopus): 12

Congress and Symposium Activities

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