

Assoc. Prof. HÜSEYİN TECİMER

Personal Information

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Address: Karabük Üniversitesi Demir Çelik Kampüsü Kılavuzlar Köyü Öte Karşı Üniversite Kampüsü Merkez/Karabük

Education Information

Doctorate, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2011 - 2014

Post Graduate, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2004 - 2007

Masters Without Thesis, Gazi Üniversitesi, Eğitim Bilimleri Enstitüsü, Fizik Öğretmenliği, Turkey 2005 - 2006

Under Graduate, Gazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, Turkey 1999 - 2003

Dissertations

Doctorate, Au/(Zn-Katkılı) polivinil alkol/n-GaAs yapıların hazırlanması ve akım-iletim mekanizmalarının geniş bir sıcaklık aralığında incelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2014

Post Graduate, Al_{0,43}Ga_{0,57}N süperörgülerinin yapısal ve optik özelliklerinin incelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2007

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Optical Properties, Spectroscopy of Matter, Natural Sciences

Academic Titles / Tasks

Associate Professor, Karabuk University, Teknoloji Fakültesi, Elektrik Mühendisliği, 2019 - Continues

Assistant Professor, Karabuk University, Teknoloji Fakültesi, Mekatronik Mühendisliği Bölümü, 2015 - 2019

Professional Experience

Vice Dean, Karabük Üniversitesi, Teknoloji Fakültesi, 2016 - 2018

Courses

Elektronik, Under Graduate, 2016 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Role of Graphene-Doped Organic/Polymer Nanocomposites on the Electronic Properties of Schottky Junction Structures for Photocell Applications**
ÇİÇEK O., TAN S. O. , Tecimer H., ALTINDAL Ş.
Journal of Electronic Materials, vol.47, pp.7134-7142, 2018 (Journal Indexed in SCI Expanded)
- II. **On the frequency-voltage dependent electrical and dielectric profiles of the Al/(Zn-PVA)/p-Si structures**
TECİMER H.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, pp.20141-20145, 2018 (Journal Indexed in SCI)
- III. **Integration of Zn-doped organic polymer nanocomposites between metal semiconductor structure to reveal the electrical qualifications of the diodes**
Tecimer H., Alper M. A. , Tecimer H., Tan S. O. , Altindal S.
Polymer Bulletin, vol.75, pp.4257-4271, 2018 (Journal Indexed in SCI Expanded)
- IV. **Investigation of photovoltaic effect on electric and dielectric properties of Au/n-Si Schottky barrier diodes with nickel (Ni)-zinc (Zn) doped organic interface layer**
Tecimer H., Tunc T., Altindal S.
Journal of Materials Science: Materials in Electronics, vol.29, pp.3790-3799, 2018 (Journal Indexed in SCI Expanded)
- V. **Frequency-Dependent Admittance Analysis of the Metal-Semiconductor Structure With an Interlayer of Zn-Doped Organic Polymer Nanocomposites**
TECİMER H., TAN S. O. , ALTINDAL Ş.
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.65, pp.231-236, 2018 (Journal Indexed in SCI)
- VI. **Synthesis and characterization of pure and graphene (Gr)-doped organic/polymer nanocomposites to investigate the electrical and photoconductivity properties of Au/n-GaAs structures**
Cicek O., Tecimer H., Tan S. O. , Tecimer H., Orak I., Altindal S.
Composites Part B: Engineering, vol.113, pp.14-23, 2017 (Journal Indexed in SCI Expanded)
- VII. **Comparative Investigation on the Effects of Organic and Inorganic Interlayers in Au/n-GaAs Schottky Diodes**
TAN S. O. , TECİMER H., ÇİÇEK O.
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.64, pp.984-990, 2017 (Journal Indexed in SCI)
- VIII. **Frequency dependent C-V and G/ω -V characteristics on the illumination-induced Au/ZnO/n-GaAs Schottky barrier diodes**
Tan S. O. , Tecimer H., Cicek O., Tecimer H., Altindal S.
Journal of Materials Science: Materials in Electronics, vol.28, pp.4951-4957, 2017 (Journal Indexed in SCI Expanded)
- IX. **Evaluation of electrical and photovoltaic behaviours as comparative of Au/n-GaAs (MS) diodes with and without pure and graphene (Gr)-doped polyvinyl alcohol (PVA) interfacial layer under dark and illuminated conditions**
Cicek O., Tecimer H., Tan S. O. , Tecimer H., Altindal S., Uslu I.
Composites Part B: Engineering, vol.98, pp.260-268, 2016 (Journal Indexed in SCI Expanded)
- X. **Electrical characterizations of Au/ZnO/n-GaAs Schottky diodes under distinct illumination intensities**
Tan S. O. , Tecimer H., Cicek O., Tecimer H., Orak I., Altindal S.
Journal of Materials Science: Materials in Electronics, vol.27, pp.8340-8347, 2016 (Journal Indexed in SCI Expanded)
- XI. **Current-transport mechanism in Au/V-doped PVC+TCNQ/p-Si structures**
Tecimer H., Vural Ö., Kaya A., ALTINDAL Ş.
International Journal of Modern Physics B, vol.29, 2015 (Journal Indexed in SCI)
- XII. **Frequency and voltage dependence of dielectric properties and electric modulus in Au/PVC + TCNQ/p-Si structure at room temperature**
Kaya A., Vural Ö., Tecimer H., Demirezen S., ALTINDAL Ş.
Current Applied Physics, vol.14, pp.322-330, 2014 (Journal Indexed in SCI)

- XIII. **On the frequency and voltage dependence of admittance characteristics of Al/PTCDA/P-Si (MPS) type Schottky barrier diodes (SBDs)**
 Tecimer H., Uslu H., Alahmed Z. A., Yakuphanoglu F., Altindal S.
 Composites Part B: Engineering, vol.57, pp.25-30, 2014 (Journal Indexed in SCI Expanded)
- XIV. **A comparative electric and dielectric properties of Al/p-Si structures with undoped and Co-doped interfacial PVA layer**
 Kaya A., Yücedağ I., Tecimer H., ALTINDAL Ş.
 Materials Science in Semiconductor Processing, vol.28, pp.26-30, 2014 (Journal Indexed in SCI)
- XV. **Capacitance/conductance-voltage-frequency characteristics of Au/PVC+TCNQ/p-Si Structures in Wide Frequency Range**
 Kaya A., Tecimer H., Vural O., Tasdemir I. H., ALTINDAL Ş.
 IEEE Transactions on Electron Devices, vol.61, pp.584-590, 2014 (Journal Indexed in SCI)
- XVI. **Electrical and photovoltaic properties of Au/(Ni, Zn)-doped PVA/n-Si structures in dark and under 250 W illumination level**
 ALTINDAL Ş., Tunç T., Tecimer H., Yücedağ I.
 Materials Science in Semiconductor Processing, vol.28, pp.48-53, 2014 (Journal Indexed in SCI)
- XVII. **Temperature and voltage dependences of dielectric properties and ac electrical conductivity in Au/PVC+TCNQ/p-Si structures**
 Yücedağ I., Kaya A., Tecimer H., ALTINDAL Ş.
 Materials Science in Semiconductor Processing, vol.28, pp.37-42, 2014 (Journal Indexed in SCI)
- XVIII. **Temperature and voltage effect on barrier height and ideality factor in Au/PVC + TCNQ/p-Si structures**
 Kaya A., Demirezen S., Tecimer H., ALTINDAL Ş.
 Advances in Polymer Technology, vol.33, 2014 (Journal Indexed in SCI)
- XIX. **Photovoltaic characteristics of Au/PVA (Bi-doped)/n-Si Schottky barrier diodes (SBDs) at various temperatures**
 Cetinkaya H. G., Tecimer H., Uslu H., Altindal S.
 Current Applied Physics, vol.13, pp.1150-1156, 2013 (Journal Indexed in SCI Expanded)
- XX. **Temperature dependent current-transport mechanism in Au/(Zn-doped)PVA/n- GaAs Schottky barrier diodes (SBDs)**
 Tecimer H., Turut A., Uslu H., Altindal S., Uslu I.
 Sensors and Actuators, A: Physical, vol.199, pp.194-201, 2013 (Journal Indexed in SCI Expanded)
- XXI. **Schottky diode properties of CuInSe 2 films prepared by a two-step growth technique**
 Tecimer H., Aksu S., Uslu H., Atasoy Y., Bacaksiz E., Altindal S.
 Sensors and Actuators, A: Physical, vol.185, pp.73-81, 2012 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **Al/PVA (Zn-katkılı)/p-Si (MPS) Yapılarda Organik Arayüzey Tabaka Kalınlığının ve Seri Direncin C-G/ħ-V Karakteristikleri Üzerine Etkisi**
 TECİMER H.
 Gazi Üniversitesi Fen Bilimleri Dergisi PART C: TASARIM VE TEKNOLOJİ, vol.6, pp.680-690, 2018 (Other Refereed National Journals)
- II. **A comparative study on electrical characteristics of Au/N-Si schottky diodes, with and without bi-doped PVA interfacial layer in dark and under illumination at room temperature**
 Alialy S., Tecimer H., USLU H., ALTINDAL Ş.
 Journal of Nanomedicine and Nanotechnology, vol.4, 2013 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Investigation of Temperature Dependent Current – Transfer Mechanisms of Au/PVA/n-GaAs**
EVCİN E., TECİMER H., ALTINDAL Ş., TECİMER H.
MSNG 2019, 16 - 18 October 2019
- II. **Dielectric Characteristics of Al₂O₃ Interlayered Metal Semiconductor Structure**
ARSLAN B., TAN S. O. , TECİMER H., ORAK İ., TECİMER H.
MSNG 2019, Niğde, Turkey, 16 - 18 October 2019
- III. **Depending on Time -Ray Irradiation Effect on The Electrical Characteristics of Organic-Based Schottky Diodes**
TECİMER H.
1st International Symposium on Light Alloys and Composite Materials (ISLAC 18), 22 - 24 March 2018, pp.228
- IV. **Current-Voltage-Temperature (I-V-T) Characteristics of Au/polyvinyl alcohol (Gr-Doped)/n-type GaAs Structures**
USLU H., TAN S. O. , TECİMER H.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 - 24 March 2018, pp.336
- V. **Time Dependent Radiation Effect on The Dielectric Properties of Au/PVA/n-Si MPStype structures at Room Temperature**
TECİMER H.
International Congress on Engineering and Life Science (ICELIS), 26 - 29 April 2018
- VI. **pTSH Katkılı Polianilin Sentezi ve Karakterizasyonu**
KARAOĞLAN N., TECİMER H., BİNDAL C.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March 2018, vol.1, pp.470
- VII. **The Frequency Dependent Admittance Measurements of Au ZnO n GaAs Schottky Barrier Diodes SBDs**
ORAK İ., AKIN b., TECİMER H., USLU H., ALTINDAL Ş.
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- VIII. **Illumination Effects on Current Voltage Characteristics of Au ZnO n GaAs Schottky Barrier Diodes SBDs**
ÇİÇEK O., USLU H., ORAK İ., TECİMER H., ALTINDAL Ş.
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- IX. **Temperature and frequency effects on the electrical and dielectric properties of the Ag 9 10 H₂BaP n Si Au Sb MIS Schottky structure**
ÖZERDEN E., KILIÇOĞLU T., TURUT A., TECİMER H., ALTINDAL Ş., OCAK Y. S. , TOMBAK A.
1st International Conference on Organic Electronic Material Technologies (OEMT 2015), 25 - 28 March 2015
- X. **Negative Capacitance Behaviour in The Forward Bias of Au ZnO n GaAs Schottky Barrier Diodes SBDs in Dark and Under Various Illumination Levels**
TAN S. O. , USLU H., ORAK İ., TECİMER H., ALTINDAL Ş.
1st International Conference on Organic Electronic Material Technologies, 25 - 28 March 2015
- XI. **The Effect of Polyvinyl Alcohol Bi doped Interfacial Layer on The Current Voltage I V Characteristics of Au n Si Schottky Barrier Diodes SBDs**
TECİMER H., USLU H., ALTINDAL Ş.
1. Ulusal Fotonik Bilimi ve Sensör Teknolojileri Konferansı, 25 Eylül 2012, TÜBİTAKUME, Gebze/Kocaeli, Turkey, 25 September 2012
- XII. **Illumination Effect on The Current Voltage I V Characteristics of Au n Si and Au Bi Doped Polyvinyl Alcohol n Si Schottky Barrier Diodes SBDs**
ALTINDAL Ş., TECİMER H., USLU H.
1. Ulusal Fotonik Bilimi ve Sensör Teknolojileri Konferansı, 25 Eylül 2012, TÜBİTAK UME, Gebze/Kocaeli, Turkey, 25 September 2012

- XIII. **Au PVA n GaAs ve Au Zn katkılı PVA n GaAs Schottkyengel diyotlarının SBDs akım voltaj I V karakteristiklerinin incelenmesi**
USLU H., TECİMER H., TURUT A.
Turkish Physical Society 29th International Physics Congress, 5 - 08 September 2012
- XIV. **Au Zn katkılı PVA n GaAs Schottky engel diyotlarının SBDs akım voltaj I V karakteristiklerinin sıcaklığa bağlı incelenmesi**
TECİMER H., USLU H., TURUT A.
Turkish Physical Society 29th International Physics Congress, 5 - 08 September 2012
- XV. **Frequency dependent of capacitance conductance voltage characteristics of Al PTCDA p Si Schottky barrier diodes SBDs at room temperature**
TECİMER H., USLU H., YAKUPHANOĞLU F., ALTINDAL Ş.
Turkish Physical Society 28th International Physics Congress, 6 - 09 September 2011
- XVI. **Illumination dependent of currentvoltage characteristics of Au PVA n Si Schottky diodes SDs at 80 K and 320 K temperatures**
ÇETİNKAYA H. G. , TECİMER H., USLU H., ALTINDAL Ş.
Turkish Physical Society 28th International Physics Congress, 6 - 09 September 2011
- XVII. **Gamma Irradition Effect on The C V and G w V Characteristics of Organic Based Schottky Barrier Diodes**
TECİMER H., USLU H.
Mini-Workshop on Surface Science for Inauguration on the Turkish Surface Science Society (TuSSS), 23rd of May 2011, Turkey, 23 May 2011
- XVIII. **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 on the Turkish Surface Science Society (TuSSS), 23rd of May 2011, Turkey, 23 May 2011

Supported Projects

TECİMER H., Project Supported by Higher Education Institutions, YARIİLETKEN MALZEMELER İÇİN KENDİLİĞİNDEN KATKILI POLİANİLİN SENTEZİ VE KARAKTERİZASYONU, 2017 - 2018

Invited Congress and Symposium Activities

1.Ulusal Fotonik Bilimi ve Sensör Teknolojileri Konferansı, Attendee, Kocaeli, Turkey, 2012

Citations

Total Citations (WOS):403

h-index (WOS):13