Asst. Prof. ESRA EVCİN BAYDİLLİ

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Education Information

Doctorate, Karabuk University, Lisansüstü Eğitim Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2014 - 2020
Postgraduate, Karabuk University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Yl) (Tezli), Turkey 2012 - 2014
Undergraduate, Bolu Abant İzzet Baysal University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 2004 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Saf ve grafen katkılı pva arayüzey tabakalı metal-yarıiletken diyotların akım-iletim mekanizmalarının sıcaklığa bağlı incelenmesi, Karabuk University, Lisansüstü Eğitim Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2020
Postgraduate, Fabrication and characterization of Bİ-2212 superconducting seramic thin films, Karabuk University, Lisansüstü Eğitim Ensititüsü, Elektrik Elektronik Mühendisliği, 2014

Research Areas

Engineering and Technology

Academic Titles / Tasks

Hakkari University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2022 - Continues

Academic and Administrative Experience

Head of Department, Hakkari University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2025 - Continues
Deputy Head of Department, Hakkari University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2023 - 2025

Published journal articles indexed by SCI, SSCI, and AHCI

I. **The effect of Cu-doping to the DLC interlayer on the temperature dependent current-conduction mechanisms and barrier shape of the Schottky devices**
EVCİN BAYDİLLİ E.
Materials Science in Semiconductor Processing, vol.184, 2024 (SCI-Expanded)

II. **Overview of the irradiation-dependent behaviour of the negative dielectric properties of GaAs-based MIS devices**
EVCİN BAYDİLLİ E., Kaymaz A., ALTINDAL Ş.
Radiation Physics and Chemistry, vol.222, 2024 (SCI-Expanded)

III. **The Role of Co/Zn-Doped Organic Interlayer on the Operating Performance of Schottky Devices as an Ionizing Radiation Sensor**
Kaymaz A., Baydilli E.
IEEE Sensors Journal, vol.24, no.11, pp.17693-17700, 2024 (SCI-Expanded)

IV. **Determination of temperature sensitivity and current-transport mechanisms of the GaAs-based MS contact**
Kaymaz A., EVCİN BAYDİLLİ E., Tecimer H., Uslu Tecimer H., ALTINDAL Ş.
Materials Today Communications, vol.35, 2023 (SCI-Expanded)

V. **Investigation of the dielectric properties of Au/Bi4Ti3O12-SiO2/n-Si (MFIS) type structures depending on gamma-irradiation**
Baydilli E.
Microelectronics Reliability, vol.140, 2023 (SCI-Expanded)

VI. **Evaluation of gamma-irradiation effects on the electrical properties of Al/(ZnO-PVA)/p-Si type Schottky diodes using current-voltage measurements**
Kaymaz A., Evcin Baydilli E., Uslu Tecimer H., ALTINDAL Ş., AZIZIAN-KALANDARAGH Y.
Radiation Physics and Chemistry, vol.183, 2021 (SCI-Expanded)

VII. **Detection of current transport mechanisms for graphene-doped-PVA interlayered metal/semiconductor structures**
Baydilli E., Tan S., Tecimer H. U., ALTINDAL Ş.
Physica B: Condensed Matter, vol.598, 2020 (SCI-Expanded)

VIII. **On the Multi-parallel Diodes Model in Au/PVA/n-GaAs Schottky Diodes and Investigation of Conduction Mechanisms (CMs) in a Temperature Range of 80–360 K**
Evcin Baydilli E., Kaymaz A., Uslu Tecimer H., ALTINDAL Ş.
Journal of Electronic Materials, vol.49, no.12, pp.7427-7434, 2020 (SCI-Expanded)

IX. **The determination of the temperature and voltage dependence of the main device parameters of Au/7%Gr-doped PVA/n-GaAs-type Schottky Diode (SD)**
Evcin Baydilli E., ALTINDAL Ş., Tecimer H., Kaymaz A., Uslu Tecimer H.
Journal of Materials Science: Materials in Electronics, vol.31, no.20, pp.17147-17157, 2020 (SCI-Expanded)

X. **Investigation of gamma-irradiation effects on electrical characteristics of Al/(ZnO–PVA)/p-Si Schottky diodes using capacitance and conductance measurements**
Kaymaz A., Uslu Tecimer H., Evcin Baydilli E., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, vol.31, no.11, pp.8349-8358, 2020 (SCI-Expanded)

Articles Published in Other Journals

I. **The Comparison of the Temperature Susceptibility of the Serial Resistance Effect of Au/n-GaAs Type M/S Structures**
EVCİN BAYDİLLİ E.
Gazi University Journal of Science Part A: Engineering and Innovation, vol.10, 2023 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

I. **The Detection of the Gamma-Irradiation Effects on Electrical Characteristics of Au/3% Gr-doped PVA/p-Si Type Schottky Structure**
EVCİN BAYDİLLİ E.
16 th International Conference on Nuclear Structure Properties (NSP 2023), Karabük, Turkey, 8 - 10 May 2023, pp.26

II. **The Determination of Voltage and Temperature Dependence of Series Resistance of Au/n-GaAs Type M/S Contact**
EVCİN E.
MSNG 2022, Ankara, Turkey, 22 September 2022

III. **Dielectric properties before and after gamma-irradiation in Au/Bi4Ti3O12-SiO2/n-Si type MFIS structure**
EVCİN E.
MSNG 2021, Turkey, 14 July 2021

IV. **Negative Dielectric Properties of the Re/n-GaAs (MS) Type Structure**
EVCİN E.
IHEC 2021, Ankara, Turkey, 14 June 2021

V. **The Investigation of Temperature Dependent Current – Transfer Mechanisms of Au/PVA/n-GaAs**
EVCİN E., TECİMER H., ALTINDAL Ş., TECİMER H.
MSNG 2019, 16 October 2019

Metrics

Publication: 16
Citation (Scopus): 124
H-Index (Scopus): 6