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## Education Information

- I. Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik, Yoğun Madde Fiziği, Turkey 2016 - 2020
- II. Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik, Yoğun Madde Fiziği, Turkey 2011 - 2013
- III. Undergraduate, Kirşehir Ahi Evran University, Faculty Of Arts And Sciences, Turkey 2007 - 2011

## Certificates, Courses and Trainings

- I. Entrepreneurship, İleri Girişimcilik Eğitimi, KOSGEB, 2020
- II. Entrepreneurship, Geleneksel Girişimcilik Eğitimi, KOSGEB, 2020
- III. Vocational Training, Proje Çevrim Yönetimi (PCM) ve Mantıksal Çerçeve Yaklaşımı Eğitimi, Bingöl Üniversitesi, 2020
- IV. Vocational Training, AB Proje Yazma Eğitimi, Bingöl Üniversitesi & Bingöl İSGEM & Fırat Kalkınma Ajansı, 2019
- V. Vocational Training, Dijital Çağda Yükseköğretimde Öğrenme ve Öğretme, Anadolu Üniversitesi, 2018
- VI. Quality Management, TS EN ISO 9001 Kalite Yönetim Sistemi İç Tetkik Eğitimi, Türk Standartları Enstitüsü, 2013
- VII. Quality Management, TS EN ISO 9001 Kalite Yönetim Sistemi Dokümantasyon Eğitimi, Türk Standartları Enstitüsü, 2013
- VIII. Quality Management, TS EN ISO 9001 Kalite Yönetim Sistemi Temel Eğitimi, Türk Standartları Enstitüsü, 2013
- IX. Vocational Training, Bilgisayar Kullanımı (Bilgisayar İşletmeciliği-Operatör), Milli Eğitim Bakanlığı, 2009

## Dissertations

- I. Doctorate, Au/(Ag-ZnO/PVP)/n-Si (MPS) Schottky engel diyotların hazırlanması ve elektrik ile dielektrik özelliklerinin frekans ve voltaja bağlı incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik, Yoğun Madde Fiziği, 2020
- II. Postgraduate, Au/n-4H-SiC (MS) schottky diyotların hazırlanması ve elektriksel karakteristiklerinin frekansa bağlı incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik, Yoğun Madde Fiziği, 2013

## Research Areas

Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Optical Properties, Spectroscopy of Matter, Electronic transport in condensed matter

## Academic Titles / Tasks

- I. Associate Professor, Kütahya Health Sciences University, Mühendislik Ve Doğa Bilimleri Fakültesi, Temel Bilimler, 2022 - Continues

- II. Assistant Professor, Kütahya Health Sciences University, Mühendislik Ve Doğa Bilimleri Fakültesi, Temel Bilimler, 2022 - 2022
- III. Lecturer, Bingol University, Health Services Vocational School, Department Of Medical Services And Techniques, 2014 - 2022

## Academic and Administrative Experience

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- I. Program Koordinatörü, Bingol University, Health Services Vocational School, Department Of Medical Services And Techniques, 2021 - 2022
- II. Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Bingol University, Health Services Vocational School, 2021 - 2022
- III. Ek Ders Komisyonu, Bingol University, Health Services Vocational School, 2020 - 2022
- IV. Assistant Director of Vocational School, Bingol University, Health Services Vocational School, Department Of Medical Services And Techniques, 2017 - 2018

## Courses

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- I. Görme Optiği II, Associate Degree, 2021 - 2022
- II. Temel Fizik, Associate Degree, 2021 - 2022
- III. Uygulamalı Ders, Associate Degree, 2020 - 2021
- IV. Optik Aletler ve Kullanımı, Associate Degree, 2020 - 2021
- V. Görme Optiği I, Associate Degree, 2020 - 2021
- VI. Fizik ve Geometrik Optik, Associate Degree, 2020 - 2021

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

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- I. **The diode and photodiode performances of BaZrO<sub>3</sub> perovskite-based device under the influence of thermal and light external stimuli**  
Orak İ., Karabulut A., Yiğit E., Sevgili Ö., Ruşen A., Özel F.  
Sensors and Actuators A: Physical, vol.337, 2022 (Journal Indexed in SCI Expanded)
- II. **Synthesis of canthaxanthin from  $\beta$ -carotene and evaluation of both substances in diode construction**  
Uzun İ., Orak İ., Sevgili Ö., Yiğit E., Karakaplan M.  
Journal of Materials Science: Materials in Electronics, vol.33, no.4, pp.1888-1898, 2022 (Journal Indexed in SCI Expanded)
- III. **The surface and electrical properties of the Al/Ba<sub>2</sub>P<sub>2</sub>O<sub>7</sub>/p-Si heterojunctions in wide range of temperature and frequency**  
Sevgili Ö., Özel F., Ruşen A., Yiğit E., Orak İ.  
Surfaces and Interfaces, vol.28, 2022 (Journal Indexed in SCI Expanded)
- IV. **Optical and Electrical Properties of Pyrene-Imine Organic Interface Layer Based on p-Si**  
Yeşildağ A., Erdoğan M., Sevgili Ö., Çaldıran Z., Orak İ.  
Journal of Electronic Materials, vol.50, no.11, pp.6448-6458, 2021 (Journal Indexed in SCI Expanded)
- V. **The current transformer mechanism and structural properties of novel Al/BODIPY/pSi and Au/BODIPY/pSi heterojunctions**  
Sevgili Ö., Tasyürek L. B. , Bayindir S., Orak I., Caliskan E.  
Materials Science in Semiconductor Processing, vol.130, 2021 (Journal Indexed in SCI Expanded)
- VI. **The investigation of the electrical characteristics and photo-response properties of the Al/(CMAT)/p-Si structures**

Sevgili Ö.

Solid State Sciences, vol.117, 2021 (Journal Indexed in SCI Expanded)

- VII. **The synthesis, current transformer mechanism and structural properties of novel rhodanine-based Al/Bis(Rh)-Ph/p-Si and Al/Bis(Rh)-TPE/p-Si heterojunctions**  
Karabulut A., Lafzi F., Bayindir S., Sevgili Ö., Orak I.  
Journal of Molecular Structure, vol.1231, 2021 (Journal Indexed in SCI Expanded)
- VIII. **Determining the potential barrier presented by the interfacial layer from the temperature induced I-V characteristics in Al/p-Si Structure with native oxide layer**  
Özdemir M., Sevgili Ö., Orak I., Turut A.  
Materials Science in Semiconductor Processing, vol.125, 2021 (Journal Indexed in SCI Expanded)
- IX. **The investigation of current condition mechanism of Al/Y2O3/p-Si Schottky barrier diodes in wide range temperature and illuminate**  
Sevgili Ö., Orak İ.  
Microelectronics Reliability, vol.117, 2021 (Journal Indexed in SCI Expanded)
- X. **On the examination of temperature-dependent possible current-conduction mechanisms of Au/(nanocarbon-PVP)/n-Si Schottky barrier diodes in wide range of voltage**  
Sevgili Ö.  
Journal of Materials Science: Materials in Electronics, 2021 (Journal Indexed in SCI Expanded)
- XI. **A comparison study regarding Al/p-Si and Al/(carbon nanofiber-PVP)/p-Si diodes: current/impedance-voltage (I/Z-V) characteristics**  
Sevgili Ö., Yıldırım M., Azizian-Kalandaragh Y., ALTINDAL Ş.  
Applied Physics A: Materials Science and Processing, vol.126, no.8, 2020 (Journal Indexed in SCI Expanded)
- XII. **Frequency and voltage dependence of electrical and dielectric properties in metal-interfacial layer-semiconductor (MIS) type structures**  
Sevgili Ö., Azizian-Kalandaragh Y., ALTINDAL Ş.  
Physica B: Condensed Matter, vol.587, 2020 (Journal Indexed in SCI Expanded)
- XIII. **Frequency-Dependent Admittance Analysis of Au/n-Si Structure with CoSO4-PVP Interfacial Layer**  
Taşçoğlu İ., Sevgili Ö., Azizian-Kalandaragh Y., ALTINDAL Ş.  
Journal of Electronic Materials, vol.49, no.6, pp.3720-3727, 2020 (Journal Indexed in SCI Expanded)
- XIV. **Characterization of aluminum 8-hydroxyquinoline microbelts and microdots, and photodiode applications**  
Sevgili Ö., Canlı S., Akman F., Orak I., Karabulut A., Yıldırım N.  
Journal of Physics and Chemistry of Solids, vol.136, 2020 (Journal Indexed in SCI Expanded)
- XV. **Investigation of the efficiencies of the (SnO2-PVA) interlayer in Au/n-Si (MS) SDs on electrical characteristics at room temperature by comparison**  
Bilkan Ç., Azizian-Kalandaragh Y., Sevgili Ö., ALTINDAL Ş.  
Journal of Materials Science: Materials in Electronics, vol.30, no.23, pp.20479-20488, 2019 (Journal Indexed in SCI Expanded)
- XVI. **The synthesis of new bola-amphiphile TPEs and the comparison of current transformer mechanism and structural properties for Al/Bis(HCTA)-TPE/p-Si and Al/Bis(HCOA)-TPE/p-Si heterojunctions**  
Sevgili Ö., Lafzi F., Karabulut A., Orak İ., Bayındır S.  
Composites Part B: Engineering, vol.172, pp.226-233, 2019 (Journal Indexed in SCI Expanded)
- XVII. **Examination of dielectric response of Au/HgS-PVA/n-Si (MPS) structure by impedance spectroscopy method**  
Sevgili Ö., Taşçoğlu İ., Boughdachi S., Azizian-Kalandaragh Y., ALTINDAL Ş.  
Physica B: Condensed Matter, vol.566, pp.125-135, 2019 (Journal Indexed in SCI Expanded)
- XVIII. **The Structural and Electrical Properties of the Au/n-Si (MS) Diodes with Nanocomposites Interlayer (Ag-Doped ZnO/PVP) by Using the Simple Ultrasound-Assisted Method**  
ALTINDAL Ş., Sevgili Ö., Azizian-Kalandaragh Y.  
IEEE Transactions on Electron Devices, vol.66, no.7, pp.3103-3109, 2019 (Journal Indexed in SCI Expanded)
- XIX. **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. , Sevgili Ö., ALTINDAL Ş.

Physica B: Condensed Matter, vol.560, pp.91-96, 2019 (Journal Indexed in SCI Expanded)

- XX. **A comparison of electrical parameters of Au/n-Si and Au/(CoSO<sub>4</sub> -PVP)/n-Si structures (SBDs) to determine the effect of (CoSO<sub>4</sub> -PVP) organic interlayer at room temperature**

ALTINDAL Ş., Sevgili Ö., Azizian-Kalandaragh Y.

Journal of Materials Science: Materials in Electronics, 2019 (Journal Indexed in SCI Expanded)

- XXI. **The Investigation of Current-Conduction Mechanisms of Te/NaF:CdS/SnO<sub>2</sub> Structure in Wide Temperature Range of 80–400 K**

Sevgili Ö., YILMAZ Ş., ALTINDAL Ş., BACAĞIZ E., Bilkan Ç.

Proceedings of the National Academy of Sciences India Section A - Physical Sciences, vol.87, no.3, pp.409-417, 2017 (Journal Indexed in SCI Expanded)

- XXII. **Energy density distribution profiles of surface states, relaxation time and capture cross-section in Au/n-type 4H-SiC SBDs by using admittance spectroscopy method**

Kaya A., Sevgili Ö., ALTINDAL Ş.

International Journal of Modern Physics B, vol.28, no.17, 2014 (Journal Indexed in SCI Expanded)

### Articles Published in Other Journals

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- I. **Terbiyum (Tb) Katkılı Arayüzeyin Al/p-Si Schottky Diyotların Elektrik Karakteristikleri Üzerine Etkisi**

SEVGİLİ Ö.

International Journal of Pure and Applied Sciences, vol.7, no.2, pp.219-228, 2021 (Other Refereed National Journals)

- II. **Termal Buharlaştırma Yöntemiyle Hazırlanan Al/TiO<sub>2</sub>/p-Si Schottky Diyotun Elektriksel Özelliklerinin Sıcaklık ve Aydınlanma Şiddetine Bağlı İncelenmesi**

SEVGİLİ Ö.

Türk Doğa ve Fen Dergisi, vol.10, no.1, pp.275-283, 2021 (Other Refereed National Journals)

- III. **The investigation of the complex dielectric and electric modulus of Al/Mg<sub>2</sub>Si/p-Si Schottky diode and its AC electrical conductivity in a wide frequency range**

Sevgili Ö.

Turkish Journal of Physics, vol.45, no.3, pp.159-168, 2021 (Refereed Journals of Other Institutions)

- IV. **The Effect of Measurement Frequency on Dielectric Characteristics in Al/P-Si Structures with Interfacial Native Oxide Layer**

Özdemir M. C. , SEVGİLİ Ö., ORAK İ., TURUT A.

Journal of the Institute of Science and Technology, vol.10, no.1, pp.91-100, 2020 (Other Refereed National Journals)

- V. **Effect of measurement frequency on admittance characteristics in Al/p-Si structures with interfacial native oxide layer**

Özdemir M. C. , SEVGİLİ Ö., ORAK İ., TURUT A.

International Journal of Chemistry and Technology, vol.3, no.2, pp.129-135, 2019 (Other Refereed National Journals)

### Refereed Congress / Symposium Publications in Proceedings

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- I. **Analyzed of electrical properties of Al/AlN/p-Si Schottky Diode prepared by thermal evaporation**  
SEVGİLİ Ö.

8th International conference on materials science and nanotechnology for next generation (MSNG2021), 14 - 16

July 2021

- II. **The Effect Of The Rare-Earth Elements Doped Interface On The Frequency-Dependent Electrical Characteristics Of Al/p-Si Schottky Diode**  
SEVGİLİ Ö.  
ISARC 2. INTERNATIONAL GOBEKLITEPE SCIENTIFIC STUDIES CONGRESS, Turkey, 20 March 2021
- III. **Electrical Characteristics of Al/(Organic Interlayer)/p-Si Schottky Diodes Under Various Illumination Intensities**  
SEVGİLİ Ö.  
ISPEC 9th International Conference on Engineering Natural Sciences, 13 - 15 November 2020
- IV. **A Comparison Electrical Parameters of Au/n-Si (MS) and Au/(ITO-PVP)/n-Si (MPS) Structures Obtained from the Forward Bias (IV) and Reverse Bias (CV) Characteristics**  
SEVGİLİ Ö., Azizian Kalandaragh Y., ALTINDAL Ş., Hamdaoui N.  
1st International Conference on Optoelectronics, Applied Optics and Microelectronics, 17 - 19 August 2019
- V. **The Electrical Characteristics Of Schottky Diode Fabricated with and without the Interface in a Wide Frequency**  
Şahinkaya M. A. , SEVGİLİ Ö., ORAK İ.  
Turkish Physical Society 35th International Physich Congress, 4 - 08 September 2019
- VI. **On the Electrical and Photovoltaic Properties of Al/p-Si Schottky Diode**  
Şahinkaya M. A. , SEVGİLİ Ö., ORAK İ.  
Turkish Physical Society 34th International Physich Congress, 5 - 09 September 2018
- VII. **Examination of Electrical Properties of Doped Organic Layer/Scottky Diodes**  
Şahinkaya M. A. , SEVGİLİ Ö., ORAK İ.  
Turkish Physical Society 34th International Physich Congress, 5 - 09 September 2018
- VIII. **The Photovoltaik Properties of Al/TiO<sub>2</sub>/p-Si Schottky Diode**  
SEVGİLİ Ö., Şahinkaya M. A. , ORAK İ., ALTINDAL Ş.  
Turkish Physical Society 34th International Physich Congress, 5 - 09 September 2018
- IX. **Frequency Dependent on Electric Properties of Al/TiO<sub>2</sub>-(R-CuWs)/pSi Schottky Diode**  
SEVGİLİ Ö., Şahinkaya M. A. , ORAK İ., ÖZEL F., ALTINDAL Ş.  
Turkish Physical Society 34th International Physich Congress, 5 - 09 September 2018
- X. **Design and Fabrication of Organic-Silicon Photodiode**  
Şahinkaya M. A. , BAYINDIR S., ORAK İ., SEVGİLİ Ö.  
International Conference On Physical Chemistry and Functional Materials, 19 - 21 June 2018
- XI. **The Organic Thin Film Characterization and Its Optical and Electrical Band Gap Properties**  
ORAK İ., SEVGİLİ Ö., AKMAN F.  
International Conference On Physical Chemistry and Functional Materials, 19 - 21 June 2018
- XII. **The Electrical Characterization Of Organic Interface on Electronic Device**  
SEVGİLİ Ö., ORAK İ., GEÇİBESLER İ. H. , TURUT A.  
INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICESICSMD-2017, 17 - 19 August 2017
- XIII. **The Analysis Of Electrical Characteristics Of Al/Graphane/p-Si Schottky Diodes**  
SEVGİLİ Ö., bağıcı u., ORAK İ.  
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017
- XIV. **The Investigation of Electrical and Photovoltaic Properties of Au/n-GaAs Schottky Diodes Under Dark and Illumination Conditions**  
SEVGİLİ Ö., bağıcı u., ORAK İ.  
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017
- XV. **The Investigation Of The Frequency Dependent Profile Of Te/NaF:CdS/SnO<sub>2</sub> Schottky Diodes**  
SEVGİLİ Ö., ALTINDAL Ş., BACAĞSIZ E.  
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017

**XVI. Current Voltage Temperature I-V-T Characteristics of An/V doped PVC+CNQ/p-Si Structures**

VURAL Ö., SEVGİLİ Ö., KAYA A., TECİMER H., ALTINDAL Ş.

International Semiconductor Science & Technology Conferance, 13 - 15 January 2014, pp.166

**XVII. ANALYSIS OF ELECTRICAL AND PHOTOVOLTAIC CHARACTERISTICS OF Au/CONDUCTING POLYMER (P3DMTFT)/n-GaAs SCHOTTKY DIODE**

Lapa H. E. , KÖKCE A., ALDEMİR D. A. , SEVGİLİ Ö., ÖZDEMİR A. F.

TURKISH PHYSICAL SOCIETY 30TH INTERNATIONAL PHYSICS CONGRESS, 2 - 05 September 2013

## Scientific Refereeing

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- I. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, January 2022
- II. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, November 2021
- III. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, July 2021
- IV. BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, June 2021
- V. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, June 2021
- VI. JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, Journal Indexed in SCI-E, June 2021
- VII. SILICON, Journal Indexed in SCI-E, February 2021
- VIII. PHYSICA SCRIPTA, Journal Indexed in SCI-E, February 2021
- IX. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, January 2021
- X. NANOTECHNOLOGY, Journal Indexed in SCI-E, October 2020
- XI. MATERIALS RESEARCH EXPRESS, Journal Indexed in SCI-E, January 2020
- XII. İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, October 2019
- XIII. İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, June 2019
- XIV. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, May 2019
- XV. İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, April 2019
- XVI. JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, Journal Indexed in SCI-E, April 2018
- XVII. Journal Of Nanoelectronics And Optoelectronics, Journal Indexed in SCI-E, November 2017

## Edit Congress and Symposium Activities

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- I. ISARC 2. INTERNATIONAL GOBEKLITEPE SCIENTIFIC STUDIES CONGRESS, Session Moderator, Şanlıurfa, Turkey, 2021

## Coaching Duties

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## Refereeing Duties

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