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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), Türkiye 2016 - 2019
Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), Türkiye 2012 - 2015

Yaptığı Tezler

Doktora, Farklı x materyaller kullanılarak Au/(Bi₂O₃-x:PVA)/4H-SiC yapıların hazırlanması, elektriksel ve dielektrik özelliklerin incelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2019
Yüksek Lisans, Grafen, bor ve nadir toprak elementleriyle katkılanmış poliviniliden florür nanokompozit piezo malzemelerin üretimi ve karakterizasyonu, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2015

Araştırma Alanları

Fizik, Temel Bilimler, Mühendislik ve Teknoloji

Jüri Üyelikleri

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Kastamonu Üniversitesi, Haziran, 2023

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Kastamonu Üniversitesi, Haziran, 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Application of carbon-based nanomaterials in solar-thermal systems: An updated review**
Tuncer A. D., BADALI Y., Khanlari A.
Solar Energy, cilt.282, 2024 (SCI-Expanded)
- Frequency-dependent dielectric, electric modulus, and ac conductivity features of Au/n-Si Schottky diodes (SDs) with PVC and (PVC:Graphite/Graphene-Oxide) interlayer**
ALTINDAL YERİŞKİN S., Taşcıoğlu İ., BADALI Y.
Journal of Physics D: Applied Physics, cilt.57, sa.31, 2024 (SCI-Expanded)

- III. **Electric and dielectric responses of Au/n-Si structure by Mn doped PVC interfacial layers**
BADALI Y., Güçlü Ç. Ş.
Physica Scripta, cilt.99, sa.8, 2024 (SCI-Expanded)
- IV. **Enhanced electrical parameters of the Au/n-Si Schottky barrier diodes with graphite/graphane oxide doped PVC interlayer**
Taşcıoğlu İ., BADALI Y., ALTINDAL YERİŞKİN S.
Physica Scripta, cilt.99, sa.8, 2024 (SCI-Expanded)
- V. **A Review: Breakdown Voltage Enhancement of GaN Semiconductors Based High Electron Mobility Transistors**
Cicek O., BADALI Y.
IEEE Transactions on Device and Materials Reliability, cilt.24, sa.2, ss.275-286, 2024 (SCI-Expanded)
- VI. **The influence of the physicochemical processes on the electrical response of Al/p-Si structure with etched surface**
BADALI Y., AZIZIAN-KALANDARAGH Y.
Applied Physics A: Materials Science and Processing, cilt.130, sa.4, 2024 (SCI-Expanded)
- VII. **Electrical properties of PVC:BN nanocomposite as interfacial layer in metal-semiconductor structure**
BADALI Y.
Journal of Materials Science: Materials in Electronics, cilt.35, sa.7, 2024 (SCI-Expanded)
- VIII. **Characterization of the electrical properties of MPS schottky structures incorporating Fe doped polyvinyl chloride (PVC)**
BADALI Y.
Physica Scripta, cilt.99, sa.1, 2024 (SCI-Expanded)
- IX. **The photoresponse behavior of a Schottky structure with a transition metal oxide-doped organic polymer (RuO₂:PVC) interface**
Elamen H., BADALI Y., ULUSOY M., AZIZIAN-KALANDARAGH Y., ALTINDAL Ş., Güneşer M. T.
Polymer Bulletin, cilt.81, sa.1, ss.403-422, 2024 (SCI-Expanded)
- X. **Thermal dependence on electrical characteristics of Au/(PVC:Sm₂O₃)/n-Si structure**
BADALI Y., Altan H., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, cilt.35, sa.3, 2024 (SCI-Expanded)
- XI. **Analysis of a spiral-formed solar air heating system with ceria nanoparticles-enhanced absorber coating**
Khanlari A., BADALI Y., Tuncer A. D.
Journal of Building Engineering, cilt.71, 2023 (SCI-Expanded)
- XII. **Frequency dependent electrical and dielectric properties of the Au/(RuO₂:PVC)/n-Si (MPS) structures**
Güneşer M. T., Elamen H., BADALI Y., Altındal Ş.
Physica B: Condensed Matter, cilt.657, 2023 (SCI-Expanded)
- XIII. **Numerical and experimental investigation for enhancing thermal performance of a concentric heat exchanger using different scenarios**
Aytaç İ., BADALI Y., Tuncer A. D.
International Journal of Numerical Methods for Heat and Fluid Flow, cilt.33, sa.6, ss.2100-2127, 2023 (SCI-Expanded)
- XIV. **The temperature-dependent dielectric properties of the Au/ZnO-PVA/n-Si structure**
AZIZIAN-KALANDARAGH Y., BADALI Y., Jamshidi-Ghozlu M., Hanife F., ÖZÇELİK S., ALTINDAL Ş., Pirgholi-Givi G.
Physica B: Condensed Matter, cilt.650, 2023 (SCI-Expanded)
- XV. **The capacitance/conductance and surface state intensity characteristics of the Schottky structures with ruthenium dioxide-doped organic polymer interface**
ULUSOY M., BADALI Y., Pirgholi-Givi G., AZIZIAN-KALANDARAGH Y., ALTINDAL Ş.
Synthetic Metals, cilt.292, 2023 (SCI-Expanded)
- XVI. **21.2 mV/K High-Performance Ni(50 nm)-Au(100 nm)/Ga₂O₃/p-Si Vertical MOS Type Diode and the Temperature Sensing Characteristics with a Novel Drive Mode**

- Cicek O., Arslan E., ALTINDAL Ş., BADALI Y., Ozbay E.
IEEE Sensors Journal, cilt.22, sa.24, ss.23699-23704, 2022 (SCI-Expanded)
- XVII. **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, cilt.22, sa.23, ss.22391-22397, 2022 (SCI-Expanded)
- XVIII. **Plasma-enhanced atomic layer deposition of amorphous Ga₂O₃ gate dielectrics**
BADALI Y., Arslan E., Ulusoy T. G., ÖZÇELİK S., Özbay E.
Journal of Physics and Chemistry of Solids, cilt.170, 2022 (SCI-Expanded)
- XIX. **Graphene doped (Bi₂Te₃-Bi₂O₃-TeO₂): PVP dielectrics in metal-semiconductor structures**
BADALI Y., Farazin J., Pirgholi-Givi G., ALTINDAL Ş., Azizian-Kalandaragh Y.
Applied Physics A: Materials Science and Processing, cilt.127, sa.9, 2021 (SCI-Expanded)
- XX. **Current transport properties of (Au/Ni)/HfAlO₃/n-Si metal-insulator-semiconductor junction**
Arslan E., BADALI Y., Aalizadeh M., ALTINDAL Ş., Özbay E.
Journal of Physics and Chemistry of Solids, cilt.148, 2021 (SCI-Expanded)
- XXI. **The possible current-conduction mechanism in the Au/(CoSO₄-PVP)/n-Si junctions**
Elamen H., BADALI Y., Güneşer M. T., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, cilt.31, sa.21, ss.18640-18648, 2020 (SCI-Expanded)
- XXII. **Intersection behavior of the current-voltage (I-V) characteristics of the (Au/Ni)/HfAlO₃/n-Si (MIS) structure depends on the lighting intensity**
Arslan E., BADALI Y., ALTINDAL Ş., Özbay E.
Journal of Materials Science: Materials in Electronics, cilt.31, sa.16, ss.13167-13172, 2020 (SCI-Expanded)
- XXIII. **Investigation of the effect of different Bi₂O₃-x:PVA (x = Sm, Sn, Mo) thin insulator interface-layer materials on diode parameters**
BADALI Y., Azizian-Kalandaragh Y., Uslu İ., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, cilt.31, sa.10, ss.8033-8042, 2020 (SCI-Expanded)
- XXIV. **Ultrasound-Assisted Method for Preparation of Ag₂S Nanostructures: Fabrication of Au/Ag₂S-PVA/n-Si Schottky Barrier Diode and Exploring Their Electrical Properties**
BADALI Y., Azizian-Kalandaragh Y., Akhlaghi E. A., ALTINDAL Ş.
Journal of Electronic Materials, cilt.49, sa.1, ss.444-453, 2020 (SCI-Expanded)
- XXV. **Dielectric properties of Ag/Ru 0.03 -PVA/n-Si structures**
BADALI Y., Koçyiğit S., Uslu I., ALTINDAL Ş.
Bulletin of Materials Science, cilt.42, sa.5, 2019 (SCI-Expanded)
- XXVI. **Synthesis of boron and rare earth stabilized graphene doped polyvinylidene fluoride (PVDF) nanocomposite piezoelectric materials**
BADALI Y., Koçyiğit S., AYTİMUR A., ALTINDAL Ş., Uslu İ.
Polymer Composites, cilt.40, sa.9, ss.3623-3633, 2019 (SCI-Expanded)
- XXVII. **Fabrication, structural and electrical characterization of Au/ (CuSe-polyvinyl alcohol)/n-Si (MPS) Schottky barrier structures**
Mirzanezhad-Asl R., Phirouznia A., ALTINDAL Ş., BADALI Y., Azizian-Kalandaragh Y.
Physica B: Condensed Matter, cilt.561, ss.1-8, 2019 (SCI-Expanded)
- XXVIII. **Current-Transport Mechanisms of the Al/(Bi₂S₃-PVA Nanocomposite)/p-Si Schottky Diodes in the Temperature Range Between 220 K and 380 K**
Boughdachi S., BADALI Y., Azizian-Kalandaragh Y., ALTINDAL Ş.
Journal of Electronic Materials, cilt.47, sa.12, ss.6945-6953, 2018 (SCI-Expanded)
- XXIX. **Formation of ZnO nanopowders by the simple ultrasound-assisted method: Exploring the dielectric and electric properties of the Au/(ZnO-PVA)/n-Si structure**
Nezhadesm-Kohardafchahi S., Farjami-Shayesteh S., BADALI Y., ALTINDAL Ş., Jamshidi-Ghozlu M., Azizian-Kalandaragh Y.
Materials Science in Semiconductor Processing, cilt.86, ss.173-180, 2018 (SCI-Expanded)
- XXX. **Preparation of mixed copper/PVA nanocomposites as an interface layer for fabrication of Al/Cu-PVA/p-Si Schottky structures**

Akhlaghi E. A., BADALI Y., ALTINDAL Ş., Azizian-Kalandaragh Y.

Physica B: Condensed Matter, cilt.546, ss.93-98, 2018 (SCI-Expanded)

- XXXI. **Effects of a Thin Ru-Doped PVP Interface Layer on Electrical Behavior of Ag/n-Si Structures**
BADALI Y., Nikravan A., ALTINDAL Ş., Uslu İ.
Journal of Electronic Materials, cilt.47, sa.7, ss.3510-3520, 2018 (SCI-Expanded)
- XXXII. **Dielectric properties, electrical modulus and current transport mechanisms of Au/ZnO/n-Si structures**
BADALI Y., ALTINDAL Ş., Uslu İ.
Progress in Natural Science: Materials International, cilt.28, sa.3, ss.325-331, 2018 (SCI-Expanded)
- XXXIII. **Facile ultrasound-assisted and microwave-assisted methods for preparation of Bi2S3-PVA nanostructures: exploring their pertinent structural and optical properties and comparative studies on the electrical, properties of Au/(Bi2S3-PVA)/n-Si Schottky structure**
Boughdachi S., Azizian-Kalandaragh Y., BADALI Y., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, cilt.28, sa.23, ss.17948-17960, 2017 (SCI-Expanded)
- XXXIV. **On the Frequency and Voltage-Dependent Profiles of the Surface States and Series Resistance of Au/ZnO/n-Si Structures in a Wide Range of Frequency and Voltage**
Nikravan A., BADALI Y., ALTINDAL Ş., Uslu İ., Orak İ.
Journal of Electronic Materials, cilt.46, sa.10, ss.5728-5736, 2017 (SCI-Expanded)
- XXXV. **On the temperature dependent current transport mechanisms and barrier inhomogeneity in Au/SnO2-PVA/n-Si Schottky barrier diodes**
Bilkan Ç., BADALI Y., Fotouhi-Shablou S., Azizian-Kalandaragh Y., ALTINDAL Ş.
Applied Physics A: Materials Science and Processing, cilt.123, sa.8, 2017 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Electrical Characteristics and Photoconduction Behavior of the Au/Er2O3-PVC/n-Si Structure**
BADALI Y., ELAMEN H., GÜNEŞER M. T., ALTINDAL Ş.
2nd International Conference on Light and Light-Based Technologies, Ankara, Türkiye, 26 Mayıs 2021
- II. **The investigated electrical parameters of the Au/n-Si (MS) capacitor with different rate Gr-doped PVA interlayer**
BADALI Y., ALTINDAL Ş.
Proceedings of the International Conference on Technology and Science, Burdur, Türkiye, 14 Kasım 2019
- III. **Dielectric properties and ac conductivity of the Au/n-Si (MS) capacitor with different rate Gr-doped PVA interlayer**
BADALI Y.
Proceedings of the International Conference on Technology and Science, Burdur, Türkiye, 14 Kasım 2019
- IV. **The investigation of main electrical parameters and conduction mechanisms of Al/p-Si (MS) structures with various Zn3%-PVA interfacial layer thickness**
BADALI Y.
Proceedings of the International Conference on Technology and Science, Burdur, Türkiye, 14 Kasım 2019
- V. **Interlayer Thickness Dependent Electrical Characteristics off Al/%3Zn doped PVA/p-Si MPS structures at Room Temperature**
BADALI Y., NIKRAVAN A., BİLGİN-BENLİ B., ALTINDAL Ş., USLU İ.
1st International Underground Resources and Energy Conference, Yozgat, Türkiye, 06 Ekim 2016
- VI. **Influence Of Frequency And Applied Voltage On Dielectric Properties, Electric Modulus And Electrical Conductivity In Ag/%3Ru doped PVP/n-Si Structures**
KAYA G., BADALI Y., NIKRAVAN A., ALTINDAL Ş., USLU İ.
2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Türkiye, 17 Mayıs 2016
- VII. **The investigation of electrical characteristics of Ag/Ru-doped pvp/n-Si structure as function of**

frequency at room temperature

KAYA G., BADALI Y., NIKRAVAN A., ALTINDAL Ş., USLU İ.

International Physics Conference at the Anatolian Peak, Erzurum, Türkiye, 25 Şubat 2016

VIII. Frequency and voltage dependence of the main electrical parameters of Au/ZnO/n-Si structures at room temperature.

NIKRAVAN A., KAYA G., BADALI Y., ALTINDAL Ş., USLU İ.

International Physics Conference at the Anatolian Peak, Erzurum, Türkiye, 25 Şubat 2016

IX. Influence of frequency and applied voltage on dielectric properties electric modules and electrical conductivity in Au/ZnO/n-Si structures

BADALI Y., NIKRAVAN A., KAYA G., ALTINDAL Ş., USLU İ.

International Physics Conference at the Anatolian Peak, Erzurum, Türkiye, 25 Şubat 2016

Desteklenen Projeler

Diğer Özel Kurumlarca Desteklenen Proje, GaN Jammer, 2020 - 2022

Bilimsel Hakemlikler

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Ekim 2023

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Eylül 2023

JOURNAL OF COLLOID AND INTERFACE SCIENCE, SCI-E Kapsamındaki Dergi, Ağustos 2023

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Mayıs 2023

JOURNAL OF COLLOID AND INTERFACE SCIENCE, SCI-E Kapsamındaki Dergi, Nisan 2023

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Ağustos 2022

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Haziran 2022

INTERNATIONAL JOURNAL OF MODERN PHYSICS B, SCI-E Kapsamındaki Dergi, Haziran 2021

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Nisan 2021

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Aralık 2020

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Kasım 2020

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Eylül 2020

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Mayıs 2020

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Şubat 2020

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Eylül 2019

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Haziran 2019

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Şubat 2019

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI-E Kapsamındaki Dergi, Nisan 2018