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International Researcher IDs

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Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 2013 - 2018

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 2011 - 2013

Undergraduate, Ataturk University, Fen Fakültesi, Fizik, Turkey 2007 - 2011

Research Areas

Natural Sciences

Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Çaldıran Meslek Yüksek Okulu, Elektronik ve Otomasyon Bölümü, 2022 -
Continues

Academic and Administrative Experience

Assistant Director of Vocational School, Van Yüzüncü Yil University, 2023 - 2026

Head of Department, Van Yüzüncü Yil University, 2022 - 2025

Courses

Kimyasal testler, Associate Degree, 2022 - 2023

Semiconductor Physics, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Determination of temperature and light intensity on the Ni/chlorophyll-a/n-GaP device**
Kaya F. Ş.
Journal of Physics and Chemistry of Solids, vol.183, 2023 (SCI-Expanded)
- II. A study on investigation of electrical properties of Au/Chlorophyll-a/n-Si/Al structure**
Kaya F. Ş., Duman S., Turgut G.
Physica B: Condensed Matter, vol.669, 2023 (SCI-Expanded)

- III. **The effects of electron irradiation on the current-voltage and capacitance-voltage measurements of Sn/p-GaAs/Au diodes**
Duman S., Kaya F. Ş., Dogan H., Turgut G., ŞAHİN Y.
RADIATION PHYSICS AND CHEMISTRY, vol.193, 2022 (SCI-Expanded)
- IV. **Effect of illumination on the electrical characteristics of Au/n-GaP/Al and Au/Chlorophyll-a/n-GaP/Al structures**
Kaya F. Ş., Duman S., Orak I., BARIŞ Ö.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.265, 2021 (SCI-Expanded)
- V. **Calculation of characteristics parameters of Au/methyl green/n-Si/Ag diodes from the current-voltage measurements**
KAYA F. Ş., Duman S., BARIŞ Ö., GÜRBULAK B.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.121, 2021 (SCI-Expanded)
- VI. **Effect of Temperature and Illumination on the Current-Voltage Characteristics of a Al/p-GaSe/In Diode**
Budak H., Duman S., Kaya F. Ş., Ashkhasi A., GÜRBULAK B.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.10, pp.5698-5704, 2020 (SCI-Expanded)
- VII. **Albedo parameters of selenium and boron compounds doped V2O5 thin films**
YILMAZ D., Uzunoglu Z., Baltakesmez A., Ozcelik F. Ş., GÜZELDİR B.
RADIATION PHYSICS AND CHEMISTRY, vol.166, 2020 (SCI-Expanded)
- VIII. **Electrical investigation of Al/PEDOT/C/p-Si structure**
Kaya F. Ş., ÖZNLÜER ÖZER T., Turgut G., BAYRAKÇEKEN YURTCAN A., Duman S.
RESULTS IN PHYSICS, vol.13, 2019 (SCI-Expanded)
- IX. **Fabrication and characterization of n-ZnO/p-GaAs structure**
Turgut G., KAYA F. Ş., Duman S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.9, pp.7750-7755, 2018 (SCI-Expanded)
- X. **An Evaluation of Structural, Topographic, Optical, and Temperature-Dependent Electrical Features of Sol-Gel Spin-Coated p-NiO/n-Si Heterojunction**
Turgut G., Duman S., Ozcelik F. Ş.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, vol.48A, no.6, pp.3137-3142, 2017 (SCI-Expanded)
- XI. **The effect of Sn doping Urbach Tail and optical absorption measurements of InSe crystal**
Duman S., Gurbulak B., Dogan S., Ozcelik F. Ş.
Journal of Physics: Conference Series 707, vol.707, pp.1-7, 2016 (SCI-Expanded)
- XII. **Lutentium incorporation influence on ZnO thin films coated via a sol-gel route: spin coating technique**
Turgut G., Duman S., Ozcelik F. Ş., GÜRBULAK B., Dogan S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.27, no.5, pp.5089-5098, 2016 (SCI-Expanded)
- XIII. **A study of Eu incorporated ZnO thin films: An application of Al/ZnO:Eu/p-Si heterojunction diode**
Turgut G., Duman S., SÖNMEZ E., Ozcelik F. Ş.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.206, pp.9-16, 2016 (SCI-Expanded)
- XIV. **Electrical properties of Al/p-Ge and Al/Methyl Green/p-Ge diodes**
Duman S., Turgut G., Ozcelik F. Ş., GÜRBULAK B.
PHILOSOPHICAL MAGAZINE, vol.95, no.15, pp.1646-1655, 2015 (SCI-Expanded)
- XV. **Current-Voltage and Capacitance-Conductance-Voltage Characteristics of Al/SiO₂/p-Si and Al/Methyl Green (MG)/p-Si Structures**
Duman S., Ozcelik F. Ş., GÜRBULAK B., GÜLNAHAR M., Turut A.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE,

vol.46A, no.1, pp.347-353, 2015 (SCI-Expanded)

- XVI. **An investigation of Zn/ZnO:Al/p-Si/Al heterojunction diode by sol-gel spin coating technique**
Turgut G., Duman S., Ozcelik F. Ş., SÖNMEZ E., GÜRBULAK B.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.71, no.3, pp.589-596, 2014 (SCI-Expanded)
- XVII. **The synthesis and characterization of sol-gel spin coated CdO thin films: As a function of solution molarity**
Duman S., Turgut G., Ozcelik F. Ş., GÜRBULAK B.
MATERIALS LETTERS, vol.126, pp.232-235, 2014 (SCI-Expanded)
- XVIII. **Fabrication and characterization of Al/Cu₂ZnSnS₄/n-Si/Al heterojunction photodiodes**
Turgut G., KESKENLER E. F., AYDIN S., Dogan S., Duman S., ÖZÇELİK Ş., GÜRBULAK B., Esen B.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.211, no.3, pp.580-586, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Current-Voltage Characteristics of Cr/Chlorophylla/n-GaP/Ag Device**
Kaya F. Ş.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, no.1, pp.1996-2005, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **ANALYSIS OF THE PHOTOVOLTAIC PARAMETERS OF THE Au/Chlorophyll/n-GaP/Al DEVICE**
Kaya F. Ş.
2. ULUSLARARASI ÇANKAYA BİLİMSEL ÇALIŞMALAR KONGRESİ, Ankara, Turkey, 28 - 29 September 2023, pp.223
- II. **THE EFFECTS OF CHLOROPHYLLS SYNTHESIZED FROM CORN PLANT (*Zea mays*) ON DEVICE PERFORMANCE**
Kaya F. Ş., Orak I., Kılıç Z.
7th INTERNATIONAL NEW YORK ACADEMIC RESEARCH CONGRESSSES ON LIFE, ENGINEERING, AND APPLIED SCIENCES ON HUMANITIES AND SOCIAL SCIENCES ON HEALTH SCIENCES, 18 - 20 February 2023, pp.69-70
- III. **Characterization of Zn/n-GaP/Al and Zn/Chlorophyll-a/n-GaP/Al structures, International Asian Congress on Contemporary Sciences-V**
Kaya F. Ş., Duman S.
International Asian Congress on Contemporary Sciences-V, Van, Turkey, 27 May 2022, pp.347
- IV. **Calculation of Characteristics Parameters of Au/n-GaP/Al and Al/n-GaP/Chlorophyll-a/Au Structures From the Current-Voltage and Capacitance-Voltage Measurements**
Kaya F. Ş., Duman S., Barış Ö.
International Conferences on Engineering & Natural Sciences, Van, Turkey, 20 December 2019, pp.184
- V. **Determination of Contact Parameters of Al/p-Ge Diode with Methyl Green Interlayer Science and Applications of Thin Films**
Duman S., Turgut G., Kaya F. Ş., Gürbulak B.
SATF, Muğla, Turkey, 19 September 2016, pp.148
- VI. **An investigation on characterization of ZnO/p-GaAs structure synthesized by sol-gel technique**
Turgut G., Kaya F. Ş., Duman S.
SATF, Muğla, Turkey, 19 September 2016, pp.169
- VII. **Structural Characterization of InSe:Zn Layer Semiconductor Grown by Bridgman/Stockbarger Technique**
Gürbulak B., Ashkhasi A., Şata M., Kaya F. Ş., Duman S.
IPCAP, Erzurum, Turkey, 23 February 2016, pp.60
- VIII. **Fabrication and Electrical Characterization of Al/n-ZnO/p-Si/Al Heterojunction Diode**

Doğan H., Şenadım Tüzemen E., Duman S., Kaya F. Ş.

IPCAP, Erzurum, Turkey, 23 February 2016, pp.216

- IX. **Electrical Characterization of Sn/InSe:Mn Crystal Grown by Bridgman-Stockbarger Method**
Gürbulak B., Duman S., Kaya F. Ş., Ashkhasi A., Şata M., Yılmaz S.
IPCAP, Erzurum, Turkey, 23 February 2016, pp.245
- X. **The Effect of Sn Doping on Urbach Tail and Optical Absorption Measurements of InSe crystal**
Duman S., Gürbulak B., Doğan S., Kaya F. Ş.
IPCAP, Erzurum, Turkey, 23 February 2016, pp.201
- XI. **Illumination Effect on the Electiricial of an Al/p-GaSe Schottky Diode**
Kaya F. Ş., Budak H., Duman S., Ashkhasi A., Gürbulak B.
IPCAP, Erzurum, Turkey, 25 February 2016, pp.200
- XII. **"The Synthesis and Characterization of Sol-gel Spin Coated CdO Thin Films**
Kaya F. Ş., Turgut G., Duman S., Askhasi A., Gürbulak B.
3rd International Multidisciplinary Microscopy and Microanalysis Congress &Exhibition, Muğla, Turkey, 19 October 2015, pp.234
- XIII. **Fabrication and Electrical Characterization of Au/Pyronine-G/P-Si Diode**
Duman S., Kaya F. Ş., Gürbulak B., Korucu D., Barış Ö., Turgut G.
International Semiconductor Science and Technology Conference, İstanbul, Turkey, 13 January 2014, pp.39
- XIV. **The Status of Women in Physics at Turkish Universities**
Akdemir F., Kaya F. Ş., Durak R.
Türk Fizik Derneği, 28. Uluslararası Fizik Kongresi, Muğla, Turkey, 06 September 2011, pp.215

Scientific Refereeing

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI Journal, September 2023

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, August 2018