

Prof. ADEM TATAROĞLU

Personal Information

Email: ademt@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/ademt>

International Researcher IDs

ScholarID: p4zepgoAAAAJ

ORCID: 0000-0003-2074-574X

Publons / Web Of Science ResearcherID: V-8882-2017

ScopusID: 9337459000

Yoksis Researcher ID: 134460

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2000 - 2004

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1996 - 2000

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1989 - 1993

Dissertations

Doctorate, MOS yapılarında temel fiziksel parametrelerin frekans ve radyasyon miktarına bağlı incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2004

Postgraduate, Metal-oksit-yarıiletken (MOS) kapasitörlerde dielektrik sabitinin frekans, sıcaklık ve kalınlığa bağlı incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1999

Research Areas

Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2017 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2011 - 2017

Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 2009 - 2011

Research Assistant, Gazi University, Fen Fakültesi, Fizik, 1999 - 2009

Academic and Administrative Experience

Gazi University, Fotonik Uygulama Ve Araştırma Merkezi, 2017 - Continues

Gazi University, Fen Bilimleri Enstitüsü, 2012 - 2016

Courses

DİELEKTRİK FİZİĞİ I, Postgraduate, 2016 - 2017

FİZ. 102 FİZİK II, Undergraduate, 2016 - 2017

FİZ. 101 FİZİK I, Undergraduate, 2016 - 2017

Advising Theses

TATAROĞLU A., Fabrication Of Mis Hemt Passivated By Ald For High Voltage And Low Leakage Current, Postgraduate, D.GÜLCÜ(Student), 2019

TATAROĞLU A., Investigation Of Dielectric Properties Of Au/Si3n4/P-Gaas (Mos) Capacitor, Postgraduate, S.YILMAZ(Student), 2019

TATAROĞLU A., The Effect Of Temperture And Frequency On Electrical Parameters Of Au/(Cu2o-Cuo-Pva)/N-Si Metal-Polymer-Semiconductor Structure, Doctorate, A.BÜYÜKBAŞ(Student), 2018

TATAROĞLU A., The Investigation Of Electrical Properties Of Au/Tio2/N-Si (Mis) Structure, Postgraduate, H.TANRIKULU(Student), 2017

TATAROĞLU A., The Effects Of Gamma Radiation On The Electrical And Dielectric Parameters Of Mis Structure With Silicon Nitrate Interfacial Insulator Layer, Doctorate, R.ERTUĞRUL(Student), 2016

TATAROĞLU A., MOS kapasitörün elektriksel özellikleri üzerine gama radyasyonun etkileri, Postgraduate, H.MERT(Student), 2015

TATAROĞLU A., Investigated Of Electric And Dielectric Properties Of Auge/Sio2/P- Si/Auge (Mos) Capacitor, Postgraduate, A.BÜYÜKBAŞ(Student), 2015

TATAROĞLU A., The Effects Of Gamma Radiation On The Electrical Properties Of Mos Capacitor, Postgraduate, H.Mert(Student), 2015

TATAROĞLU A., An investigation into current- voltage (i-v) characteristics of Au/Si3N4/n-Si (MIS) structures, Postgraduate, F.ZEHRA(Student), 2012

TATAROĞLU A., Au/Si3N4/n-Si (MIS) yapıların kapasitans-voltaj (C-V) ve iletkenlik-voltaj (G/w-V) karakteristiklerinin incelenmesi, Postgraduate, Ş.SEZGİN(Student), 2011

TATAROĞLU A., The investigation of dielectric properties of Au/Si3N4/n-Si structures, Postgraduate, T.ATASEVEN(Student), 2011

TATAROĞLU A., MIS YAPILARIN DİELEKTRİK ÖZELLİKLERİNİN FREKANS VE SICAKLIĞA BAĞLI İNCELENMESİ, Postgraduate, H.ERBAŞ(Student), 2010

TATAROĞLU A., Metal-yarıiletken Schottky diyotların elektriksel karakteristiklerinin frekans ve sıcaklığa bağlı incelenmesi, Postgraduate, İ.KAYA(Student), 2010

TATAROĞLU A., MIS yapıların dielektrik özelliklerinin frekans ve sıcaklığa bağlı incelenmesi, Postgraduate, H.ERBAŞ(Student), 2010

TATAROĞLU A., METAL-YARIİLETKEN SCHOTTKY DİYOTLARIN ELEKTRİKSEL KARAKTERİSTİKLERİN FREKANS VE SICAKLIĞA BAĞLI İNCELENMESİ, Postgraduate, İ.KAYA(Student), 2010

TATAROĞLU A., METAL-YALITKAN-YARIİLETKEN YAPILARIN ELEKTRİKSEL ÖZELLİKLERİNİN FREKANS VE SICAKLIĞA BAĞLI İNCELENMESİ, Postgraduate, F.KİRAZOĞLU(Student), 2010

TATAROĞLU A., Metal-yalıtkan-yarıiletken yapıların elektriksel özelliklerinin frekans ve sıcaklığa bağlı incelenmesi, Postgraduate, F.KİRAZOĞLU(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

I. Investigation of AlN-based Schottky type photodetector in visible light detection

KOÇYİĞİT A., Yıldız D., Erdal M., TATAROĞLU A., Yıldırım M.
Physica B: Condensed Matter, vol.690, 2024 (SCI-Expanded)

II. The Electrical and Photodetector Characteristics of the Graphene:PVA/p-Si Schottky Structures Depending on Illumination Intensities

ULUSOY M., Koçyiğit S., TATAROĞLU A., ALTINDAL YERİŞKİN S.

ACS Omega, vol.9, no.29, pp.32243-32255, 2024 (SCI-Expanded)

- III. **Structural, morphological, optical and electrical characterization of MgO thin films grown by sputtering technique on different substrates**
Toprak B. Ç., Efkere H. İ., Aydın S. Ş., Tataroğlu A., Özçelik S.
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.35, pp.1-10, 2024 (SCI-Expanded)
- IV. **The electronic and optoelectronic properties of Al/hydroxymethyl functionalized Zn(II)Pc/p-Si photonic device**
Al-Sehemi A. G., Ocakoglu K., Ince M., Karabulut A., TATAROĞLU A., Dere A., Al-Ghamdi A. A., Yakuphanoglu F.
Polymer Bulletin, vol.81, no.5, pp.4351-4368, 2024 (SCI-Expanded)
- V. **Impact of TiO₂, ZnO, and Methylene Blue Doping on the Dielectric anisotropy of planar 8CB nematic liquid crystal**
Ocaya R. O., Al-Sehemi A. G., Karataş Ş., TATAROĞLU A., Dere A., Al-Ghamdi A. A., Yakuphanoglu F.
Optical Materials, vol.150, 2024 (SCI-Expanded)
- VI. **Analysis of the optical and electronic characteristics of Al/NiPc complex/p-Si diode**
Güllü O., Efe U., TATAROĞLU A.
Physica Scripta, vol.99, no.3, 2024 (SCI-Expanded)
- VII. **Optical and dielectric behavior of Al/CrO₃/p-Si device**
Güllü Ö., TATAROĞLU A.
Optical Materials, vol.148, 2024 (SCI-Expanded)
- VIII. **Influence of ionizing radiation on admittance measurements of Au/TiO₂/n-Si (MIS) capacitor**
İzdeş M., Ertuğrul Uyar R., TATAROĞLU A.
Journal of Materials Science: Materials in Electronics, vol.35, no.6, 2024 (SCI-Expanded)
- IX. **Structural and Optical Properties of Interfacial InSe Thin Film**
Emir C., TATAROĞLU A., COŞKUN E., BİLGE OCAK S.
ACS OMEGA, no.7, pp.7588-7596, 2024 (SCI-Expanded)
- X. **High-temperature sensitivity complex dielectric/electric modulus, loss tangent, and AC conductivity in Au/(S:DLC)/p-Si (MIS) structures**
TATAROĞLU A., Durmuş H., Vahid A. F., Avar B., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, vol.35, no.3, 2024 (SCI-Expanded)
- XI. **The structural, electrical, and photoelectrical properties of Al/Cu₂CdSnS₄ chalcogenide film/p-Si Schottky-type photodiode**
Al-Sehemi A. G., TATAROĞLU A., Dere A., Karabulut A., Al-Ghamdi A. A., Yakuphanoglu F.
Journal of Materials Science: Materials in Electronics, vol.34, no.30, 2023 (SCI-Expanded)
- XII. **Effect of CuO doping on the performance of LaB₆ interlayer films in Al/CuO:LaB₆/p-Si/Al diodes**
Ocaya R. O., Al-Sehemi A. G., Tataroğlu A., Dere A., Erol I., Aksu M., Al-Ghamdi A. A., Yakuphanoglu F.
PHYSICA B-CONDENSED MATTER, vol.666, 2023 (SCI-Expanded)
- XIII. **Optoelectronic and Photonic Characteristics of Al/p-Si Diode with Boric Acid-Doped Zinc Oxide Interlayer**
Al-Sehemi A. G., TATAROĞLU A., Karabulut A., Dere A., Al-Ghamdi A. A., Yakuphanoglu F.
JOM, vol.75, no.9, pp.3587-3600, 2023 (SCI-Expanded)
- XIV. **Electrical and optical properties of p-Si based structures with lead oxide interfaces**
Aydemir G. A., AKAY D., TATAROĞLU A., BİLGE OCAK S.
Materials Science and Engineering B: Solid-State Materials for Advanced Technology, vol.294, 2023 (SCI-Expanded)
- XV. **Analysis of the Current Transport Characteristics (CTCs) in the Au/n-Si Schottky Diodes (SDs) with Al₂O₃ Interfacial Layer over Wide Temperature Range**
Buyukbas-Uluslan A., TATAROĞLU A., Altindal-Yerişkin S.
ECS Journal of Solid State Science and Technology, vol.12, no.8, 2023 (SCI-Expanded)
- XVI. **Analysis of dielectric, impedance and electrical properties of interfacial layer: AlN**
Yıldız D., TATAROĞLU A.
Journal of Materials Science: Materials in Electronics, vol.34, no.12, 2023 (SCI-Expanded)

- XVII. **Dielectric, Conductivity and Modulus Properties of Au/ZnO/p-InP (MOS) Capacitor**
Acar F. Z., Uyar R. E., Tataroglu A.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.12, no.3, 2023 (SCI-Expanded)
- XVIII. **Production of spin coated chromium oxide (CrO₃) thin layers and application in the Al/p-Si metal semiconductor structures**
Güllü Ö., TATAROĞLU A.
Physica Scripta, vol.98, no.1, 2023 (SCI-Expanded)
- XIX. **The effect of temperature on the electrical characteristics of Ti/n-GaAs Schottky diodes**
Durmuş H., Tataroğlu A., Altındal Ş., Yıldırım M.
Current Applied Physics, vol.44, pp.85-89, 2022 (SCI-Expanded)
- XX. **Analysis of admittance measurements of Al/Gr-PVA/p-Si (MPS) structure**
Ata D., Yeriskin S., Tataroglu A., Balbasi M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.169, 2022 (SCI-Expanded)
- XXI. **Hydrothermal Synthesis of ZnO-Doped Poly-2-(4-Fluorophenyl)-2-Oxoethyl-2-Methylprop-2-Enoate Nanocomposites for Electronic Devices**
Erol I., Al-Sehemi A. G., Tataroglu A., Dere A., Al-Ghamdi A. A., Yakuphanoglu F.
JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, vol.61, no.7-8, pp.958-970, 2022 (SCI-Expanded)
- XXII. **Electrical, kinetic and photoelectrical properties of CuAlMnMg shape memory alloy/n-Si Schottky diode**
Canbay C. A., TATAROĞLU A., Dere A., Al-Sehemi A. G., Karabulut A., Al-Ghamdi A. A., Yakuphanoglu F.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.888, 2021 (SCI-Expanded)
- XXIII. **Double-exponential current-voltage (I-V) behavior of bilayer graphene-based Schottky diode**
Kutluoglu E. E., ORHAN E., TATAROĞLU A., BAYRAM Ö.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
- XXIV. **Investigation of structural, kinetics and electrical properties of CuAlMnZn shape memory alloy - p-type silicon Schottky diode**
Aldirmaz E., Güler M., Güler E., Dere A., TATAROĞLU A., Yakuphanoğlu F.
Sensors and Actuators, A: Physical, vol.331, 2021 (SCI-Expanded)
- XXV. **A systematic influence of Cu doping on structural and opto-electrical properties of fabricated Yb₂O₃ thin films for Al/Cu-Yb₂O₃/p-Si Schottky diode applications**
Mohan K., Panneerselvam A., Marnadu R., Chandrasekaran J., Shkir M., TATAROĞLU A.
Inorganic Chemistry Communications, vol.129, 2021 (SCI-Expanded)
- XXVI. **Photoresponse characteristics of Au/(CoFe₂O₄-PVP)/n-Si/Au (MPS) diode**
Ulusan A. B., Tataroglu A., ALTINDAL Ş., Azizian-Kalandaragh Y.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.12, pp.15732-15739, 2021 (SCI-Expanded)
- XXVII. **Complex dielectric permittivity, electric modulus and electrical conductivity analysis of Au/Si₃N₄/p-GaAs (MOS) capacitor**
Turkay S., TATAROĞLU A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.9, pp.11418-11425, 2021 (SCI-Expanded)
- XXVIII. **A Compare Study on Electrical Properties of MS Diodes with and Without CoFe₂O₄-PVP Interlayer**
Tataroglu A., Buyukbas Ulsan A., Altındal Ş., Azizian-Kalandaragh Y.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.31, no.4, pp.1668-1675, 2021 (SCI-Expanded)
- XXIX. **Frequency dependence of the dielectric properties of Au/(NG:PVP)/n-Si structures**
Akbas A. M., TATAROĞLU A., ALTINDAL Ş., Azizian-Kalandaragh Y.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.6, pp.7657-7670, 2021 (SCI-Expanded)
- XXX. **Electrical characterization of Au/n-Si (MS) diode with and without graphene-polyvinylpyrrolidone (Gr-PVP) interface layer**

TATAROĞLU A., ALTINDAL Ş., Azizian-Kalandaragh Y.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.3, pp.3451-3459, 2021 (SCI-Expanded)

- XXXI. **The photo-electrical performance of the novel CuAlMnFe shape memory alloy film in the diode application**
Canbay C. A., Tataroglu A., Dere A., Al-Sehemi A. G., Karabulut A., Bektas A., Al-Ghamdi A. A., Yakuphanoglu F.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.264, 2021 (SCI-Expanded)
- XXXII. **Electrical Properties of MOS Capacitor with TiO₂/SiO₂ Dielectric Layer**
Cetin S. Ş., Efkere H. İ., Sertel T., Tataroğlu A., Özçelik S.
SILICON, vol.12, no.12, pp.2879-2883, 2020 (SCI-Expanded)
- XXXIII. **Ionizing radiation effects on Au/TiO₂/n-Si metal-insulator-semiconductor (MIS) structure**
Ertugrul-Uyar R., Buyukbas-Ulusan A., Tataroglu A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.22, pp.19846-19851, 2020 (SCI-Expanded)
- XXXIV. **Current voltage analyses of Graphene-based structure onto Al₂O₃/p-Si using various methods**
Efil E., Kaymak N., Seven E., Orhan E., Bayram Ö., Bilge Ocak S., Tataroğlu A.
VACUUM, vol.181, 2020 (SCI-Expanded)
- XXXV. **Electrical and photoresponse properties of CoSO₄-PVP interlayer based MPS diodes**
Tataroglu A., Altindal Ş., Azizian-Kalandaragh Y.
Journal of Materials Science: Materials in Electronics, vol.31, no.14, pp.11665-11672, 2020 (SCI-Expanded)
- XXXVI. **Electrical characterization of silicon nitride interlayer-based MIS diode**
Buyukbas-Ulusan A., Tataroglu A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9888-9893, 2020 (SCI-Expanded)
- XXXVII. **Electrical properties of Graphene/Silicon structure with Al₂O₃ interlayer**
Kaymak N., Bayram Ö., Tataroğlu A., Bilge Ocak S., Orhan E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9719-9725, 2020 (SCI-Expanded)
- XXXVIII. **Dielectric, ac conductivity and electric modulus studies at MPS structure with (Cu₂O)-doped PVA interfacial layer**
Buyukbas-Ulusan A., Yeriskin S., Tataroglu A., Balbasi M., Azizian-Kalandaragh Y.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, no.5-6, pp.256-260, 2020 (SCI-Expanded)
- XXXIX. **A Temperature Sensor Based on Al/p-Si/CuCdO₂/Al Diode for Low Temperature Applications**
Dere A., Tataroglu A., Al-Sehemi A. G., EREN H., Soyly M., Al-Ghamdi A. A., Yakuphanoglu F.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.4, pp.2317-2325, 2020 (SCI-Expanded)
- XL. **C-V-f and G/ω-V-f characteristics of Au/(In₂O₃-PVP)/n-Si (MPS) structure**
Tataroglu A., Altindal Ş., Azizian-Kalandaragh Y.
Physica B: Condensed Matter, vol.582, 2020 (SCI-Expanded)
- XLI. **Impedance spectroscopy of Au/TiO₂/n-Si metal-insulator-semiconductor (MIS) capacitor**
Buyukbas-Ulusan A., Tataroglu A.
PHYSICA B-CONDENSED MATTER, vol.580, 2020 (SCI-Expanded)
- XLII. **CuAlMnV shape memory alloy thin film based photosensitive diode**
Canbay C. A., Tataroglu A., Farooq W. A., Dere A., KARABULUT A., Atif M., Hanif A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.107, 2020 (SCI-Expanded)
- XLIII. **Comparison of electrical properties of MS and MPS type diode in respect of (In₂O₃-PVP) interlayer**
TATAROĞLU A., ALTINDAL Ş., Azizian-Kalandaragh Y.
Physica B: Condensed Matter, vol.576, 2020 (SCI-Expanded)
- XLIV. **Effects of temperature and frequency on capacitance and conductance characteristics of zinc-oxide based MIS-Structure**

Kaymak N., Efil E., Seven E., Tataroğlu A., Bilge Ocak S., Orhan E.

PHYSICA B-CONDENSED MATTER, vol.576, 2020 (SCI-Expanded)

- XLV. **Frequency dependent dielectric properties of atomic layer deposition grown zinc-oxide based MIS structure**
Efil E., Kaymak N., Seven E., Tataroglu A., Ocak S., Orhan E.
PHYSICA B-CONDENSED MATTER, vol.568, pp.31-35, 2019 (SCI-Expanded)
- XLVI. **A comparative study on the electrical and dielectric properties of Al/Cd-doped ZnO/p-Si structures**
Buyukbas-Ulusan A., Tascioglu I., Tataroglu A., Yakuphanoglu F., Altindal Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.13, pp.12122-12129, 2019 (SCI-Expanded)
- XLVII. **Metallo-Phthalocyanines Based Photocapacitors**
Tataroglu A., KORAN K., Caliskan E., Al-Sehemi A. G., GÖRGÜLÜ A. O., Al-Ghamdi A., Yakuphanoglu F.
SILICON, vol.11, no.3, pp.1275-1286, 2019 (SCI-Expanded)
- XLVIII. **Double-exponential current-voltage (I-V) and negative capacitance (NC) behavior of Al/(CdSe-PVA)/p-Si/Al (MPS) structure**
Buyukbas-Ulusan A., Tataroglu A., Azizian-Kalandaragh Y., Kosal M.
Journal of Materials Science: Materials in Electronics, vol.30, no.10, pp.9572-9581, 2019 (SCI-Expanded)
- XLIX. **Cu-Al-Mn shape memory alloy based Schottky diode formed on Si**
Aldirmaz E., TATAROĞLU A., Dere A., Guler M., Guler E., Karabulut A., Yakuphanoglu F.
PHYSICA B-CONDENSED MATTER, vol.560, pp.261-266, 2019 (SCI-Expanded)
- L. **Dielectric, modulus and conductivity studies of Au/PVP/n-Si (MPS) structure in the wide range of frequency and voltage at room temperature**
Alptekin S., Tataroglu A., Altinda S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.7, pp.6853-6859, 2019 (SCI-Expanded)
- LI. **Electrical characteristics analyses of zinc-oxide based MIS structure grown by atomic layer deposition**
Kaymak N., Efil E., Seven E., Tataroğlu A., Bilge S., Orhan E.
MATERIALS RESEARCH EXPRESS, vol.6, no.2, 2019 (SCI-Expanded)
- LII. **Analysis of barrier inhomogeneities in AuGe/n-Ge Schottky diode**
Ulusan A. B., TATAROĞLU A.
INDIAN JOURNAL OF PHYSICS, vol.92, no.11, pp.1397-1402, 2018 (SCI-Expanded)
- LIII. **Forward and reverse bias current-voltage (I-V) characteristics in the metal-ferroelectric-semiconductor (Au/SrTiO₃/n-Si) structures at room temperature**
Buyukbas-Ulusan A., Altindal-Yeriskin S., TATAROĞLU A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.19, pp.16740-16746, 2018 (SCI-Expanded)
- LIV. **Boron doped graphene based linear dynamic range photodiode**
Dere A., Coskun B., TATAROĞLU A., Al-Sehemi A. G., Al-Ghamdi A. A., Alateeq H. M. A., Qindeel R., Farooq W. A., Yakuphanoglu F.
PHYSICA B-CONDENSED MATTER, vol.545, pp.86-93, 2018 (SCI-Expanded)
- LV. **Frequency-Dependent Dielectric Parameters of Au/TiO₂/n-Si (MIS) Structure**
Ulusan A. B., TATAROĞLU A.
SILICON, vol.10, no.5, pp.2071-2077, 2018 (SCI-Expanded)
- LVI. **Analysis of interface states in Au/ZnO/p-InP (MOS) structure**
Acar F. Z., Buyukbas-Ulusan A., TATAROĞLU A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.15, pp.12553-12560, 2018 (SCI-Expanded)
- LVII. **Electronic and optoelectronic properties of Al/coumarin doped Pr₂Se₃-Ti₂Se/p-Si devices**
TATAROĞLU A., Ahmedova C., Barim G., Al-Sehemi A. G., KARABULUT A., Al-Ghamdi A. A., Farooq W. A., Yakuphanoglu F.

- JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.15, pp.12561-12572, 2018 (SCI-Expanded)
- LVIII. The effect of thickness on the optical, structural and electrical properties of ZnO thin film deposited on n-type Si**
Efkere H. İ., Tataroğlu A., Cetin S. Ş., Topaloglu N., Gonullu M., Ateş H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1165, pp.376-380, 2018 (SCI-Expanded)
- LIX. Electrical and impedance properties of MPS structure based on (Cu₂O–CuO–PVA) interfacial layer**
Buyukbas-Ulusan A., Yeriskin S. A., TATAROĞLU A., Balbasi M., Kalandaragh Y.
Journal of Materials Science: Materials in Electronics, vol.29, no.10, pp.8234-8243, 2018 (SCI-Expanded)
- LX. Structural, Electrical and Photoresponse Properties of Si-based Diode with Organic Interfacial Layer Containing Novel Cyclotriphosphazene Compound**
TATAROĞLU A., Ozen F., KORAN K., Dere A., GÖRGÜLÜ A. O., Al-Senany N., Al-Ghamdi A., Farooq W. A., Yakuphanoglu F.
SILICON, vol.10, no.3, pp.683-691, 2018 (SCI-Expanded)
- LXI. Optical, Electrical and Photoresponse Properties of Si-based Diodes with NiO-doped TiO₂ Film Prepared by Sol-gel Method**
TATAROĞLU A., Al-Sehemi A. G., Ilhan M., Al-Ghamdi A. A., Yakuphanoglu F.
SILICON, vol.10, no.3, pp.913-920, 2018 (SCI-Expanded)
- LXII. A shape memory alloy based on photodiode for optoelectronic applications**
Aldirmaz E., Guler M., Guler E., Dere A., TATAROĞLU A., Al-Sehemi A. G., Al-Ghamdi A. A., Yakuphanoglu F.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.743, pp.227-233, 2018 (SCI-Expanded)
- LXIII. Electrical characterization of MIS diode prepared by magnetron sputtering**
Tanrikulu H., TATAROĞLU A., Tanrikulu E., Uluslan A. B.
INDIAN JOURNAL OF PURE & APPLIED PHYSICS, vol.56, no.2, pp.142-148, 2018 (SCI-Expanded)
- LXIV. On the conduction mechanisms of Au/(Cu₂O–CuO–PVA)/n-Si (MPS) Schottky barrier diodes (SBDs) using current–voltage–temperature (I–V–T) characteristics**
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MİLLİ EĞİTİM BAKANLIĞI