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Personal Information

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International Researcher IDs

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

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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 yapılarda 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. **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)
- II. **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)
- III. **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)
- IV. **Structural and Optical Properties of Interfacial InSe Thin Film**
Emir C., TATAROĞLU A., COŞKUN E., BİLGE OCAK S.
ACS OMEGA, 2024 (SCI-Expanded)
- V. **Optical and dielectric behavior of Al/CrO₃/p-Si device**
Güllü Ö., TATAROĞLU A.
Optical Materials, vol.148, 2024 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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., Altındal-Yerişkin S.
ECS Journal of Solid State Science and Technology, vol.12, no.8, 2023 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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., Yakuphanoglu F.
Sensors and Actuators, A: Physical, vol.331, 2021 (SCI-Expanded)
- XXII. **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)
- XXIII. **Photoresponse characteristics of Au/(CoFe2O4-PVP)/n-Si/Au (MPS) diode**
Uluslan 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)
- XXIV. **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)
- XXV. **A Compare Study on Electrical Properties of MS Diodes with and Without CoFe2O4-PVP Interlayer**
Tataroglu A., Buyukbas Uluslan A., Altindal Ş., Azizian-Kalandaragh Y.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.31, no.4, pp.1668-1675, 2021 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Electrical Properties of MOS Capacitor with TiO2/SiO2 Dielectric Layer**
Cetin S. Ş., Efkere H. İ., Sertel T., Tataroglu A., Özçelik S.
SILICON, vol.12, no.12, pp.2879-2883, 2020 (SCI-Expanded)

- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)

- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIIL. **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)
- LIV. **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)
- LV. **The effect of thickness on the optical, structural and electrical properties of ZnO thin film deposited on n-type Si**
Efker 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)
- LVI. **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)
- LVII. **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., İlhan M., Al-Ghamdi A. A., Yakuphanoglu F.
SILICON, vol.10, no.3, pp.913-920, 2018 (SCI-Expanded)
- LVIII. **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)
- LIX. **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)
- LX. **Electrical characterization of MIS diode prepared by magnetron sputtering**
Tanrikulu H., TATAROĞLU A., Tanrikulu E., Ulsan A. B.
INDIAN JOURNAL OF PURE & APPLIED PHYSICS, vol.56, no.2, pp.142-148, 2018 (SCI-Expanded)
- LXI. **Ruthenium(II) Complex Based Photodiode for Organic Electronic Applications**
TATAROĞLU A., Ocaya R., Dere A., Dayan O., Serbetci Z., Al-Sehemi A. G., Soylu M., Al-Ghamdi A. A., Yakuphanoglu F.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.1, pp.828-833, 2018 (SCI-Expanded)
- LXII. **On the conduction mechanisms of Au/(Cu₂O–CuO–PVA)/n-Si (MPS) Schottky barrier diodes (SBDs) using current–voltage–temperature (I–V–T) characteristics**
Ulsan A. B., TATAROĞLU A., Azizian-Kalandaragh Y., Altindal Ş.
Journal of Materials Science: Materials in Electronics, vol.29, no.1, pp.159-170, 2018 (SCI-Expanded)
- LXIII. **A photodiode based on PbS nanocrystallites for FYTRONIX solar panel automatic tracking controller**
Wageh S., Farooq W. A., TATAROĞLU A., Dere A., Al-Sehemi A. G., Al-Ghamdi A. A., Yakuphanoglu F.
PHYSICA B-CONDENSED MATTER, vol.527, pp.44-51, 2017 (SCI-Expanded)
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Non Academic Experience

MİLLÎ EĞİTİM BAKANLIĞI