

Prof. ADEM TATAROĞLU

Personal Information

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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 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 Temperature 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, 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, 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, İ.KAYA(Student), 2010

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

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

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

- I. **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 (Journal Indexed in SCI Expanded)
- II. **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 (Journal Indexed in SCI Expanded)
- III. **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, 2021 (Journal Indexed in SCI)
- IV. **A Compare Study on Electrical Properties of MS Diodes with and Without CoFe2O4-PVP Interlayer**
Tataroglu A., Buyukbas Ulusan A., Altindal Ş., Azizian-Kalandaragh Y.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.31, no.4, pp.1668-1675, 2021

(Journal Indexed in SCI)

- V. **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, 2021 (Journal Indexed in SCI)
- VI. **Frequency dependence of the dielectric properties of Au/(NG:PVP)/n-Si structures**
Akbas A. M. , TATAROĞLU A., ALTINDAL Ş., Azizian-Kalendaragh Y.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2021 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **Electrical characterization of Au/n-Si (MS) diode with and without graphene-polyvinylpyrrolidone (Gr-PVP) interface layer**
TATAROĞLU A., ALTINDAL Ş., Azizian-Kalendaragh Y.
Journal of Materials Science: Materials in Electronics, 2021 (Journal Indexed in SCI Expanded)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **Current voltage analyses of Graphene-based structure onto Al₂O₃/p-Si using various methods**
Efil E., Kaymak N., Seven E., Orhan E., BAYRAM Ö., BİLGE OCAK S., TATAROĞLU A.
VACUUM, vol.181, 2020 (Journal Indexed in SCI)
- XII. **Electrical and photoresponse properties of CoSO₄-PVP interlayer based MPS diodes**
Tataroglu A., Altindal Ş., Azizian-Kalendaragh Y.
Journal of Materials Science: Materials in Electronics, vol.31, no.14, pp.11665-11672, 2020 (Journal Indexed in SCI Expanded)
- XIII. **Electrical properties of Graphene/Silicon structure with Al₂O₃ interlayer**
Kaymak N., BAYRAM Ö., TATAROĞLU A., BİLGE OCAK S., ORHAN E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9719-9725, 2020 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **C-V-f and G/ω-V-f characteristics of Au/(In₂O₃-PVP)/n-Si (MPS) structure**
Tataroglu A., Altindal Ş., Azizian-Kalendaragh Y.
Physica B: Condensed Matter, vol.582, 2020 (Journal Indexed in SCI Expanded)
- XVI. **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., Soylu M., Al-Ghamdi A. A. , Yakuphanoglu F.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.4, pp.2317-2325, 2020 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **Impedance spectroscopy of Au/TiO₂/n-Si metal-insulator-semiconductor (MIS) capacitor**
Buyukbas-Ulusan A., Tataroglu A.
PHYSICA B-CONDENSED MATTER, vol.580, 2020 (Journal Indexed in SCI)

- XIX. **Dielectric, ac conductivity and electric modulus studies at MPS structure with (Cu₂O-CuO)-doped PVA interfacial layer**
Buyukbas-Ulusan A., Yeriskin S. A., Tataroglu A., Balbasi M., Azizian-Kalandaragh Y.
Optoelectronics and Advanced Materials, Rapid Communications, vol.14, pp.256-260, 2020 (Journal Indexed in SCI Expanded)
- XX. **Effects of temperature and frequency on capacitance and conductance characteristics of zinc-oxide based MIS-Structure**
Kaymak N., Efil E., Seven E., TATAROĞLU A., BİLGE OCAK S., ORHAN E.
PHYSICA B-CONDENSED MATTER, vol.576, 2020 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI Expanded)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI Expanded)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI Expanded)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **On the conduction mechanisms of Au/(Cu₂O-CuO-PVA)/n-Si (MPS) Schottky barrier diodes (SBDs) using current-voltage-temperature (I-V-T) characteristics**
Uluslan A. B. , TATAROĞLU A., Azizian-Kalandaragh Y., Altindal Ş.
Journal of Materials Science: Materials in Electronics, vol.29, no.1, pp.159-170, 2018 (Journal Indexed in SCI Expanded)
- XLII. **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 (Journal Indexed in SCI)
- XLIII. **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 (Journal Indexed in SCI)
- XLIV. **A functional material based photodiode for solar tracking systems**
Dere A., TATAROĞLU A., Al-Sehemi A. G. , Al-Ghamdi A. A. , El-Tantawy F. F. , Farooq W. A. , Yakuphanoglu F.
PHYSICA B-CONDENSED MATTER, vol.520, pp.76-81, 2017 (Journal Indexed in SCI)
- XLV. **Frequency dependence of dielectric parameters of structure with Bi_{3.25}La_{0.75}Ti₃O₁₂ thin film**

prepared by sol-gel method

TATAROĞLU A., Al-Ghamdi A. A. , Yakuphanoglu F.

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.19, pp.629-633, 2017 (Journal Indexed in SCI)

- XLVI. **Frequency and electric field controllable photodevice: FYTRONIX device**
TATAROĞLU A., Al-Sehemi A. G. , Ozdemir M., ÖZDEMİR R., USTA H., Al-Ghamdi A. A. , Farooq W. A. , Yakuphanoglu F.
PHYSICA B-CONDENSED MATTER, vol.519, pp.53-58, 2017 (Journal Indexed in SCI)
- XLVII. **Electrical Properties of Dilute Nitride GaAsPN/GaPN MQW p-i-n Diode**
Sertel T., Özen Y., Tataroğlu A., Asar T., Cetin S. Ş. , Ozelik S.
JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.7, pp.4590-4595, 2017 (Journal Indexed in SCI)
- XLVIII. **A new shape memory alloy film/p-Si solar light four quadrant detector for solar tracking applications**
Canbay C. A. , TATAROĞLU A., Dere A., Al-Ghamdi A., Yakuphanoglu F.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.688, pp.762-768, 2016 (Journal Indexed in SCI)
- XLIX. **Single crystal ruthenium(II) complex dye based photodiode**
TATAROĞLU A., Dayan O., Ozdemir N., Serbetci Z., A-Ghamdi A. A. , Dere A., El-Tantawy F., Yakuphanoglu F.
DYES AND PIGMENTS, vol.132, pp.64-71, 2016 (Journal Indexed in SCI)
- L. **Radiation effects on dielectric properties of MIS structure with Si₃N₄ thin film prepared by r.f. magnetron sputtering**
Ertugrul R., TATAROĞLU A.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.18, pp.798-802, 2016 (Journal Indexed in SCI)
- LI. **Frequency and voltage dependence of dielectric properties, complex electric modulus, and electrical conductivity in Au/7% graphene doped-PVA/n-Si (MPS) structures**
Yeriskin S. A. , BALBAŞI M., TATAROĞLU A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.33, 2016 (Journal Indexed in SCI)
- LII. **Analysis of density and time constant of interface states of MIS device by conductance method**
TATAROĞLU A., Uyar R. E.
INDIAN JOURNAL OF PURE & APPLIED PHYSICS, vol.54, no.6, pp.374-378, 2016 (Journal Indexed in SCI)
- LIII. **Thermal sensors based on delafossite film/p-silicon diode for low-temperature measurements**
Elgazzar E., TATAROĞLU A., Al-Ghamdi A. A. , Al-Turki Y., Farooq W. A. , El-Tantawy F., Yakuphanoglu F.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.122, no.6, 2016 (Journal Indexed in SCI)
- LIV. **Photoresponse and photocapacitor properties of Au/AZO/p-Si/Al diode with AZO film prepared by pulsed laser deposition (PLD) method**
Alyamani A., TATAROĞLU A., El Mir L., Al-Ghamdi A. A. , Dahman H., Farooq W. A. , Yakuphanoglu F.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.122, no.4, 2016 (Journal Indexed in SCI)
- LV. **Analysis of interface states of FeO-Al₂O₃ spinel composite film/p-Si diode by conductance technique**
TATAROĞLU A., Al-Ghamdi A. A. , El-Tantawy F., Farooq W. A. , Yakuphanoglu F.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.122, no.3, 2016 (Journal Indexed in SCI)
- LVI. **Composite metal oxide semiconductor based photodiodes for solar panel tracking applications**
Al-Ghamdi A. A. , Dere A., TATAROĞLU A., Arif B., Yakuphanoglu F., El-Tantawy F., Farooq W. A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.650, pp.692-699, 2015 (Journal Indexed in SCI)
- LVII. **Photodiode and photocapacitor properties of Au/CdTe/p-Si/Al device**
Dahlan A. S. , TATAROĞLU A., Al-Ghamdi A. A. , Al-Ghamdi A. A. , Bin-Omran S., Al-Turki Y., El-Tantawy F., Yakuphanoglu F.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.646, pp.1151-1156, 2015 (Journal Indexed in SCI)
- LVIII. **Effects of Temperature on Dielectric Parameters of Metal-Oxide-Semiconductor Capacitor with Thermal Oxide Layer**
Buyukbas A., TATAROĞLU A.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.10, no.5, pp.675-679, 2015 (Journal Indexed in SCI)
- LIX. **Graphene-cobalt phthalocyanine based on optoelectronic device for solar panel tracking systems**

- TATAROĞLU A., Tuncer H., Al-Ghamdi A. A., Dere A., Arif B., Yol S., Ozdemir N., El-Tantawy F., Yakuphanoglu F.
SYNTHETIC METALS, vol.206, pp.15-23, 2015 (Journal Indexed in SCI)
- LX. **Dielectric, conductivity and modulus analysis of AuGe/SiO₂/p-Si/AuGe capacitor**
Buyukbas A., TATAROĞLU A., Balbasi M.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.17, pp.1134-1138, 2015 (Journal Indexed in SCI)
- LXI. **A novel type heterojunction photodiodes formed junctions of Au/LiZnSnO and LiZnSnO/p-Si in series**
Aydin H., TATAROĞLU A., Al-Ghamdi A. A., Yakuphanoglu F., El-Tantawy F., Farooq W. A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.625, pp.18-25, 2015 (Journal Indexed in SCI)
- LXII. **Ferroelectric Bi_{3.25}La_{0.75}Ti₃O₁₂ photodiode for solar cell applications**
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