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Education Information

Doctorate, İstanbul Üniversitesi, Fen Edebiyat, Fizik, Turkey Continues

Research Areas

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

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

- I. **Anomalous Capacitance Behavior of Sol-Gel Deposited V2O5 Film on Crystalline Silicon**
BULGURCUOĞLU A. E. , GOKDEMİR F. P. , ÖZDEMİR O., Kutlu K.
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- II. **Structural, optical and electrochromic properties of cerium dioxide thin films prepared by sol-gel dip coating method**
GOKDEMİR F. P. , Saatci A. E. , ÖZDEMİR O., KESKİN B., Kutlu K.
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- III. **Structural and interfacial properties of large area n-a-Si:H/i-a-Si:H/p-c-Si heterojunction solar cells**
Pehlivan O., Menda D., Yilmaz O., Kodolbas A. O. , ÖZDEMİR O., Duygulu O., Kutlu K., Tomak M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.22, pp.69-75, 2014 (Journal Indexed in SCI)
- IV. **Comparison of Structural and Electrochemical Properties of V2O5 Thin Films Prepared by Organic/Inorganic Precursors**
Gokdemir F. P. , ÖZDEMİR O., Kutlu K.
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- V. **Structural Modification of Sol-Gel Synthesized V2O5 and TiO2 Thin Films with/without Erbium Doping**
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- VI. **Influence of Heat Treatment on Structure and Charge Capacity of Sol-Gel produced TiO2 Films**
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- VII. **Excess current/capacitance observation on polymer-fullerene bulk heterojunction, studied through I-V and C/G-V measurements**
KAVAK P., Menda U. D. , Parlak E. A. , ÖZDEMİR O., Kutlu K.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.103, pp.199-204, 2012 (Journal Indexed in SCI)
- VIII. **Investigation of Electrical Transport in PECVD Grown a-SiCx:H Thin Film**
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Materials Science and Application, pp.993-999, 2011 (Journal Indexed in SCI Expanded)
- IX. **Transport and storage properties of CrSi2/Si junctions made using the CAPVD technique**

- Menda U. D. , ÖZDEMİR O., Tatar B., Urgen M., Kutlu K.
 MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.13, pp.257-266, 2010 (Journal Indexed in SCI)
- X. **Excess Capacitance Due To Minority Carrier Injection in CrSi₂/p-c-Si Isotype Junction**
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 Japanese Journal of Applied Physics, 2010 (Journal Indexed in SCI Expanded)
- XI. **Excess Capacitance Due to Minority Carrier Injection in CrSi₂/p-Type Crystalline Si Isotype Junction**
 ÖZDEMİR O., Yilmazer U. D. , Tatar B., Urgen M., Kutlu K.
 JAPANESE JOURNAL OF APPLIED PHYSICS, vol.49, 2010 (Journal Indexed in SCI)
- XII. **Correlation of DC and AC electrical properties of Al/p-Si structure by I-V-T and C(G/omega)-V-T measurements**
 ÖZDEMİR O., Tatar B., YILMAZER D., GOKDEMİR P., KUTLU K.
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- XIII. **Electrical and photovoltaic properties of Cr/Si Schottky diodes**
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- XIV. **Conduction mechanism analysis in beta-FeSi₂/n-Si heterojunction through J-V-T measurement**
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- I. **Formation of TiO₂ thin films by a modified sol-gel route and characterization of structural, optical and electrochromic properties**
 Gökdemir F. P. , Yüzbaşıoğlu V. E. , Keskin B., Özdemir O., Kutlu K.
 Advanced Materials Letters, vol.5, pp.367-371, 2014 (Refereed Journals of Other Institutions)
- II. **International Congress on Energy Efficiency and Energy Related Materials (ENEFM2013)**
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 Springer Proceedings in Physics, vol.155, pp.307-313, 2014 (Refereed Journals of Other Institutions)
- III. **Energy-band diagram of PCDTBT, PCBM and blend by cyclic voltammetry and UV-visible measurements**
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- IV. **Electroluminescence property of organic light emitting diode (OLED)**
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- V. **Ionic conduction in different hydrated V₂O₅ films**
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Books & Book Chapters

- I. **Influence of Heat Treatment on Structure and Charge Capacity of Sol-Gel Produced TiO₂ Films**
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 in: International Congress on Energy Efficiency and Energy Related Materials ENEFM2013,
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Refereed Congress / Symposium Publications in Proceedings

- I. **Enhancement of photovoltaic performance of PCPDTTBTT solar cells with inclusion of Gold (Au) Nanorods**
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2nd International Organic Electronic Material Technologies Conference, Çanakkale, Turkey, 17 May 2016, pp.216
- II. **Improvement in photovoltaic properties of PCPDTTBTT:PCBM based bulk heterojunction solar cells with thermal annealing**
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- III. **"Investigation of Sol-Gel Deposited ZnO on c-Si By Admittance Measurement As SIS Structure**
BULGURCUOĞLU A. E. , Atalay A. Y. , KAVAK P., ÖZDEMİR O., KUTLU K.
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- IV. **Structural, Optical and Electrochemical Investigation of Electrochromic Tungsten Oxide Thin Films**
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- VI. **Determination of Band Offset of Sol-Gel Synthesized TiO₂ Over Silicon Substrates By IPE Measurement**
Can N., Saatci A., Gökdemir P., Özdemir O., Kutlu K.
Turkish Physical Society 31st International Physics Congress (TFD31) 21-24 July, Muğla, Turkey, 21 - 24 July 2014, pp.374
- VII. **Dielectric Strength of WO₃ Thin Films By Admittance and Ellipsometry Measurements**
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- VIII. **Investigation of Sol-Gel Deposited Vanadium Oxide By Capacitance/Voltage Measurement As SIS Structure**
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- X. **Effect of Erbium Doping on Sol-Gel Synthesized Vanadium Pentoxide and Titanium Dioxide Thin Films**
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- XI. **Comparative Study of Structural and Electro-Chemical Properties of V₂O₅ Thin Films Prepared by Organic/Inorganic Precursors**
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- XII. **Influence of Heat Treatment on Structure and Charge Capacity of Sol-Gel Produced TiO₂ Films**
Gökdemir F. P. , Özdemir O., Keskin B., Kutlu K.
International Congress on Energy Efficiency and Energy Related Materials (ENEFM2013), Antalya, Turkey, 9 - 12 October 2013
- XIII. **Formation of Pure Titanium Dioxide Thin Films By A Modified Sol Gel Route and Characterization of**

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- XIV. **Effect of Erbium Doping on Sol-Gel Synthesized Vanadium Pentoxide and Titanium Dioxide Thin Films**
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- XV. **Current-Voltage Analysis of PCBM:PCDTBT Blend To Find Out Charge Transport Path**
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- XVI. **Carrier Transport Property of Organic Light Emitting Diode (OLED) Through Admittance Spectroscopy**
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- XVIII. **Energy-Band Diagram of PCDTBT, PCBM and Blend by Cyclic Voltammetry and UV-Visible Measurements**
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- XIX. **Simulation Study of Charge Transport in PCDTBT:PCBM Organic Solar Cell**
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- XX. **Investigation of Potential to Produce Electricity from Commercial Solar Cell Through Beta Particles**
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- XXI. **Energy-Band Diagram of PCDTBT, PCBM and Blend by Cyclic Voltammetry and UV-Visible Measurements**
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- XXII. **Electroluminescence Property of Organic Light Emitting Diode (OLED)**
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- XXIII. **Admittance Analysis in (PPE-PPV) Polymer (AnE-PVstat) Light Emitting Diodes**
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- XXIV. **Current-Voltage Analysis of PCBM:PCDTBT Blend To Find Out Charge Transport Path**
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- XXV. **Observation of negative capacitance in ITO/PEDOT:PSS/PCDTBT:PCBM/TiO_x/Ca:Ag organic solar cells**
KAVAK P., Altürk Parlak E., KUTLU K., TORE N., ÖZDEMİR O.
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- XXVI. **Nuclear Battery: Betavoltaic Power Source and Applications**
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- XXVII. **Ionic Conduction in Different Hydrated V2O5 Film**
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- XXVIII. **Influence of Water Expulsion on Structural Properties of V2O5 nH(2)O Sol-Gel Films**
GOKDEMİR F. P. , MENDA U. D. , KAVAK P., Saatci A. E. , ÖZDEMİR O., Kutlu K.
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- XXIX. **Nano-Crystal V2O5 nH(2)O Sol-Gel Films Made by Dip Coating**
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- XXX. **Improvement of organic solar cell efficiency using silver cathode**
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- XXXI. **Structural Modifications of Sol-Gel Derived V2O5 Thin Film By Lithium ion Assessed Through Cyclic Voltammetry and FTIR Measurements**
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- XXXII. **Influence of V5 and V4 Oxidation States On Electrochromic and IR Properties of Sol-Gel Deposited V2O5 Films**
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- XXXIII. **Sol-gel Synthesized V2O5 Thin Film for Display Technology**
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- XXXIV. **Characterization of Doped Amorphous and Crystalline Silicon Interface for HIT Solar Cell**
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- XXXV. **Investigation of Electrical Transport in PECVD grown a SiCx H Thin Film**
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- XXXVI. **Earthquakes-Ionospheric Model Derived From GPS-TEC Measurements**
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- XXXVII. **Observation of Excess Current/Capacitance Issues on Organic Based Heterojunctions**
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- XXXVIII. **Structural Modifications of Sol-Gel Derived V2O5 Thin Film By Lithium ion Assessed Through Cyclic Voltammetry and FTIR Measurements**
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- XXXIX. **Structural properties of FePc thin films synthesis by spray pyrolysis technique**
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- XL. **Alternative Approach for Determination of Energy Band Gap of Semiconductors Through Electrical Analysis**
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- XLI. **Electrical properties of CrSi₂/n-cryst. Si Heterojunction**
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5. Ulusal Nanobilim ve Nanoteknoloji Konferansı, Eskişehir, Turkey, 08 June 2009, pp.84
- XLII. **" Fabrication and electrical properties of FePc/Si heterojunction**
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- XLIII. **Electrical features of Au/ β -FeSi₂/N-Si heterojunction through J-V-T Measurements**
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- XLIV. **Electrical properties of Cr/Si Schottky Diodes Through I-V-T Measurement**
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- XLV. **Electrical Features of Au/-FeSi₂/n-Si Heterojunction Through J-V-T Measurement**
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- XLVI. **Cr/Si Schottky kontakların Fotovoltaik Özelliklerin İncelenmesi**
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- XLVII. **Cr/Si Schottky Kontakların Fotovoltaik Özelliklerinin İncelenmesi**
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- XLVIII. **Determination of conduction mechanism in Cr/ β -FeSi₂/n-Si heterojunction through I-V-T measurement**
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- XLIX. **" Fabrication and electrical properties of Ag/p-FePc/n-TiO₂/FTO heterojunction photovoltaic cell**
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- LI. **Birkaç Dış Faktörün Aynı Anda Etkisiyle Polimer Kompozitlerinin Yıpranmasının Önceden Söylenilmesi Problemleri Sözlü Bildiri**
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- LII. **Farklı Taşıyıcı Sıcaklıklarında Kaplanan CeF₃ Filmlerinin Optik Parametrelerinin İncelenmesi**
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- LIII. **İki Atomlu Bir Molekülün Titreşim ve Dönme Enerjileri**
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- LIV. **Investigation of interactions of GPS Signals with Ionosphere in Marmara Region**
CAN Z., Bozkurt K., Elçin B., Oğuz O., Kutlu K.
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- LV. **Annealing Effect of Sol-Gel Deposited ZnO Thin Film, Produced by Sol-Gel Technique**
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Supported Projects

KUTLU K., KAVAK P., Project Supported by Higher Education Institutions, Sol-jel yöntemi ile üretilen ZnO ince filmlerin elektriksel ve yapısal özelliklerinin incelenmesi, 2013 - 2018

KUTLU K., KAVAK P., Project Supported by Higher Education Institutions, Sol gel yöntemi ile üretilen titanyum dioksit ince filmlerin dielektrik özelliklerinin incelenmesi, 2013 - 2018

KUTLU K., Project Supported by Higher Education Institutions, Thiophene Türevli Kopolimerlerin Organik Güneş Pili Uygulamaları ve Kararlılık Çalışmaları, 2013 - 2017

KUTLU K., Project Supported by Higher Education Institutions, Yüksek Dielektrik Sabitli Yalıtkan Filmlerin Üretilmesi ve MOS Yapıda İncelenmesi, 2012 - 2015

KUTLU K., Project Supported by Higher Education Institutions, Amorf Silisyum Tabanlı Schottky Diyotların Optik ve Elektriksel Özelliklerinin İncelenmesi, 2011 - 2012

KUTLU K., Project Supported by Higher Education Institutions, CeO₂ Filmlerin Sentezi ve Optik Özelliklerinin İncelenmesi, 2009 - 2012

KUTLU K., Project Supported by Higher Education Institutions, Kimyasal sprey püskürtme tekniği ile üretilen FePc / Si Heteroeklemlerin elektriksel ve optik özellikleri, 2010 - 2010

KUTLU K., Project Supported by Higher Education Institutions, Fotovoltaik uygulamalar için FeSi_2/Si heteroeklemlerin incelenmesi, 2007 - 2009

Citations

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