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Education Information

Doctorate, Istanbul University, Fen Edebiyat, Fizik, Turkey Continues

Research Areas

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Anomalous Capacitance Behavior of Sol-Gel Deposited V2O5 Film on Crystalline Silicon**
BULGURCUOĞLU A. E., GOKDEMİR F. P., ÖZDEMİR O., Kutlu K.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, no.2, pp.146-151, 2017 (SCI-Expanded)
- 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.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.38, pp.300-305, 2015 (SCI-Expanded)
- 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 (SCI-Expanded)
- IV. **Comparison of Structural and Electrochemical Properties of V2O5 Thin Films Prepared by Organic/Inorganic Precursors**
Gokdemir F. P., ÖZDEMİR O., Kutlu K.
ELECTROCHIMICA ACTA, vol.121, pp.240-244, 2014 (SCI-Expanded)
- V. **Structural Modification of Sol-Gel Synthesized V2O5 and TiO2 Thin Films with/without Erbium Doping**
Gokdemir F. P., Saatci A. E., ÖZDEMİR O., Kutlu K.
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, 2014 (SCI-Expanded)
- VI. **Influence of Heat Treatment on Structure and Charge Capacity of Sol-Gel produced TiO2 Films**
KUTLU K.
Key Engineering Materials, vol.1, 2013 (SCI-Expanded)
- 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 (SCI-Expanded)
- VIII. **Investigation of Electrical Transport in PECVD Grown a-SiCx:H Thin Film**
KUTLU K.
Materials Science and Application, no.2, pp.993-999, 2011 (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, no.4, pp.257-266, 2010 (SCI-Expanded)
- X. Excess Capacitance Due To Minority Carrier Injection in CrSi₂/p-c-Si Isotype Junction**
KUTLU K.
Japanese Journal of Applied Physics, no.49, 2010 (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, no.9, 2010 (SCI-Expanded)
- 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.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.12, pp.133-141, 2009 (SCI-Expanded)
- XIII. Electrical and photovoltaic properties of Cr/Si Schottky diodes**
Tatar B., BULGURCUOĞLU A. E., Gokdemir P., Aydoğan P., Yilmazer D., ÖZDEMİR O., Kutlu K.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.12, pp.5208-5212, 2009 (SCI-Expanded)
- XIV. Conduction mechanism analysis in beta-FeSi₂/n-Si heterojunction through J-V-T measurement**
ÖZDEMİR O., Tatar B., Yilmazer D., Gokdemir P., Kutlu K.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.23, no.9, 2008 (SCI-Expanded)
- XV. Conduction Mechanism Analysis in beta-FeSi₂/n-Si heterojunction Through J-V-T Measurement**
ÖZDEMİR O., Tatar B., Yilmazer D., Gökdemir P., Kutlu K.
Semiconductor Science and Technology, vol.23, 2008 (SCI-Expanded)

Articles Published in Other Journals

- 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 (Scopus)
- II. International Congress on Energy Efficiency and Energy Related Materials (ENEFM2013)**
Gökdemir F. P., Özdemir O., Keskin B., Kutlu K.
Springer Proceedings in Physics, vol.155, pp.307-313, 2014 (Scopus)
- III. Electroluminescence property of organic light emitting diode (OLED)**
Gökdemir F. P., Özdemir O., Bulgurcuoğlu A. E., Kutlu K., Menda U. D., Kavak P., Can N.
AIP Conference Proceedings, vol.1569, pp.364-371, 2013 (Scopus)

Books & Book Chapters

- I. Influence of Heat Treatment on Structure and Charge Capacity of Sol-Gel Produced TiO₂ Films**
Özdemir O., Gökdemir F. P., Keskin B., Kutlu K.
in: International Congress on Energy Efficiency and Energy Related Materials ENEFM2013,
Oral, A.Y., Bahsi, Z.B., Ozer, M., Editor, Springer, Zürich, pp.307-313, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. Enhancement of photovoltaic performance of PCPDTTBTT solar cells with inclusion of Gold (Au) Nanorods**
KAVAK P., Altürk Parlak E., Evcimen N. İ., Nalbant Esentürk E., KUTLU K.

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**
KAVAK P., Altürk Parlak E., ÖZDEMİR O., KUTLU K.
EMRS Spring Meeting 2015, Lille, France, 18 May 2015, pp.50
- 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.
EMRS Spring Meeting 2015, Lille, France, 11 May 2015, pp.54
- IV. **Structural Optical and Electrochemical Investigation of Electrochromic Tungsten Oxide Thin Films**
GÖKDEMİR F. P., SAATCI A. E., ÖZDEMİR O., KESKİN B., KUTLU K.
17th Solid State Protonic Conference (SSPC-17), SEUL, KUZEY KORE, 14 - 19 September 2014
- V. **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.
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- VII. **Dielectric Strength of WO₃ Thin Films By Admittance and Ellipsometry Measurements**
ÖZDEMİR O., CHOI F. P., BULGURCUOĞLU A. E., KUTLU K.
4th International Advances in Applied Physics and Materials Science Congress & Exhibition, Muğla, Turkey, 24 April 2014, pp.346
- VIII. **Investigation of Sol-Gel Deposited Vanadium Oxide By Capacitance/Voltage Measurement As SIS Structure**
BULGURCUOĞLU A. E., CHOI F. P., ÖZDEMİR O., KUTLU K.
4th International Advances in Applied Physics and Materials Science Congress & Exhibition, Muğla, Turkey, 24 April 2014, pp.260
- IX. **Structural, Optical and Electrochromic Properties of Cerium Dioxide Thin Films Prepared By Sol Gel Dip Coating Method**
Gökdemir F. P., Özdemir O., Bulgurcuoğlu A. E., Kutlu K., Keskin B.
APMAS 2014, Muğla, Turkey, 24 - 27 April 2014
- X. **Effect of Erbium Doping on Sol-Gel Synthesized Vanadium Pentoxide and Titanium Dioxide Thin Films**
GOKDEMİR F. P., YUZBASIOĞLU E., Saatci A. E., ÖZDEMİR O., Kutlu K.
3rd International Conference on Materials and Applications for Sensors and Transducers (IC-MAST), Prague, Czech Republic, 13 - 17 September 2013, vol.605, pp.400-403
- XI. **Comparative Study of Structural and Electro-Chemical Properties of V₂O₅ Thin Films Prepared by Organic/Inorganic Precursors**
GÖKDEMİR F. P., ÖZDEMİR O., KESKİN B., KUTLU K.
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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 Structural, Optical and Electrochromic Properties**
Gökdemir F. P., Özdemir O., Keskin B., Kutlu K.
Advanced Materials World Congress, İzmir, Turkey, 16 - 19 September 2013
- XIV. **Carrier Transport Property of Organic Light Emitting Diode (OLED) Through Admittance Spectroscopy**

- KAVAK P., BULGURCUOĞLU A. E., TEKIN E., GÖKDEMİR F. P., CAN N., ÖZDEMİR O., MENDA U. D., KUTLU K.
3rd International Advances in Applied Physics & Materials Science Congress, Antalya, Turkey, 20 April 2013, pp.271
- XV. **Energy-Band Diagram of PCDTBT, PCBM and Blend by Cyclic Voltammetry and UV-Visible Measurements**
Gökdemir F. P., Özdemir O., Kavak P., Can N., Kutlu K.
International Advances in Applied Physics and Material Science Congress 2013, Antalya, Turkey, 24 - 28 April 2013
- XVI. **Simulation Study of Charge Transport in PCDTBT:PCBM Organic Solar Cell**
KAVAK P., BULGURCUOĞLU A. E., GÖKDEMİR F. P., KUTLU K., ÖZDEMİR O., MENDA U. D.
3rd International Advances in Applied Physics & Materials Science Congress, Antalya, Turkey, 20 April 2013, pp.233
- XVII. **Current-Voltage Analysis of PCBM:PCDTBT Blend To Find Out Charge Transport Path**
Gökdemir F. P., Özdemir O., Kutlu K., Menda U. D., Kavak P., Bulgurcuoğlu A. E.
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- XVIII. **Investigation of Potential to Produce Electricity from Commercial Solar Cell Through Beta Particles**
AYARCI KURUOĞLU N., BOZKURT K., ÖZDEMİR O., MENDA U. D., AKÇALI Ö., KUTLU K.
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- XIX. **Electroluminescence Property of Organic Light Emitting Diode (OLED)**
ÖZDEMİR O., TEKIN E., PRAVADALI S., KAVAK P., Saatci A. E., GOKDEMİR F. P., MENDA U. D., CAN N., Kutlu K.
3rd International Congress on Advances in Applied Physics and Materials Science, Antalya, Turkey, 24 - 28 April 2013, vol.1569, pp.364-371
- XX. **Electroluminescence property of organic light emitting diode (OLED)**
Gökdemir F. P., Özdemir O., Bulgurcuoğlu A. E., Kutlu K., Can N., Kavak P.
3rd International Advances in Applied Physics and Materials Science Congress, APMAS 2013, Antalya, Turkey, 24 - 28 April 2013, vol.1569, pp.364-371
- XXI. **Current-Voltage Analysis of PCBM:PCDTBT Blend To Find Out Charge Transport Path**
Saatci A. E., KAVAK P., PARLAK E. A., GOKDEMİR F. P., MENDA U. D., ÖZDEMİR O., Kutlu K.
3rd International Congress on Advances in Applied Physics and Materials Science, Antalya, Turkey, 24 - 28 April 2013, vol.1569, pp.414-418
- XXII. **Admittance Analysis in (PPE-PPV) Polymer (AnE-PVstat) Light Emitting Diodes**
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Conference on Organic Light Emitting Materials and Devices XVII, California, United States Of America, 25 - 28 August 2013, vol.8829
- XXIII. **Energy-Band Diagram of PCDTBT, PCBM and Blend by Cyclic Voltammetry and UV-Visible Measurements**
Kutlu K., KAVAK P., PARLAK E. A., Saatci A. E., GOKDEMİR F. P., MENDA U. D., ÖZDEMİR O.
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- XXIV. **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.
International SolarTR-2 Solar Electricity Conference and Exhibition, Antalya, Turkey, 15 November 2012, pp.90
- XXV. **Nuclear Battery: Betavoltaic Power Source and Applications**
AYARCI KURUOĞLU N., BOZKURT K., ÖZDEMİR O., KUTLU K.
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- XXVI. **Nano-Crystal V2O5 nH(2)O Sol-Gel Films Made by Dip Coating**
ÖZDEMİR O., GOKDEMİR F. P., MENDA U. D., KAVAK P., Saatci A. E., Kutlu K.
2nd International Congress on Advances in Applied Physics and Materials Science (APMAS), Antalya, Turkey, 26 - 29 April 2012, vol.1476, pp.233-240
- XXVII. **Ionic Conduction in Different Hydrated V2O5 Film**
Saatci A. E., GOKDEMİR F. P., MENDA U. D., KAVAK P., ÖZDEMİR O., Kutlu K.
2nd International Congress on Advances in Applied Physics and Materials Science (APMAS), Antalya, Turkey, 26 - 29 April 2012, vol.1476, pp.289-295

- 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. **Improvement of organic solar cell efficiency using silver cathode**
KAVAK P., Altürk Parlak E., KUTLU K., ÖZDEMİR O.
Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 10 September 2011, pp.551
- XXX. **Structural Modifications of Sol-Gel Derived V2O5 Thin Film By Lithium ion Assessed Through Cyclic Voltammetry and FTIR Measurements**
KUTLU K.
TFD 28. ULUSLARARASI FİZİK KONGRESİ, 01 September 2011
- XXXI. **Influence of V5 and V4 Oxidation States On Electrochromic and IR Properties of Sol-Gel Deposited V2O5 Films**
KUTLU K.
E-MRS 2011 Fall Meeting Conference, 01 September 2011
- XXXII. **Sol-gel Synthesized V2O5 Thin Film for Display Technology**
KUTLU K.
28th International Physics Congress, 01 September 2011
- XXXIII. **Characterization of Doped Amorphous and Crystalline Silicon Interface for HIT Solar Cell**
KUTLU K.
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- XXXIV. **Investigation of Electrical Transport in PECVD grown a SiCx H Thin Film**
ÖZDEMİR O., BOZKURT K., KUTLU K.
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- XXXV. **Earthquakes-Ionospheric Model Derived From GPS-TEC Measurements**
KUTLU K.
27. TFD Uluslararası Fizik Kongresi, 01 September 2010
- XXXVI. **Observation of Excess Current/Capacitance Issues on Organic Based Heterojunctions**
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- XXXVII. **Structural Modifications of Sol-Gel Derived V2O5 Thin Film By Lithium ion Assessed Through Cyclic Voltammetry and FTIR Measurements**
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- XXXVIII. **Structural properties of FePc thin films synthesis by spray pyrolysis technique**
KAVAK P., KUTLU K., ÖZDEMİR O., Ürgen M.
Turkish Physical Society 26th International Physics Congress, Muğla, Turkey, 15 September 2009, pp.350
- XXXIX. **Alternative Approach for Determination of Energy Band Gap of Semiconductors Through Electrical Analysis**
Gökdemir F. P., Özdemir O., Menda U. D., Kutlu K.
7th International Conference of the Balkan Physical Union, Alexandroupoli, Greece, 9 - 13 September 2009
- XL. **Electrical properties of CrSi2/n-cryst. Si Heterojunction**
BULGURCUOĞLU A. E., TATAR B., CHOİ F. P., KUTLU K., ÖZDEMİR O., KAVAK P., MENDA U. D.
5. Ulusal Nanobilim ve Nanoteknoloji Konferansı, Eskişehir, Turkey, 08 June 2009, pp.84
- XLI. **" Fabrication and electrical properties of FePc/Si heterojunction**
KAVAK P., TATAR B., KUTLU K.
Turkish Physical Society 25th International Physics Congress, Muğla, Turkey, 30 August 2008, pp.371
- XLII. **Electrical features of Au/β-FeSi2/N-Si heterojunction through J-V-T Measurements**
ÖZDEMİR O., TATAR B., YILMAZER D., GOKDEMİR F. P., AYDOĞAN P., BULGURCUOĞLU A. E., KUTLU K.
25th International Physics Congress, Muğla, Turkey, 25 August 2008, pp.408

- XLIII. Electrical properties of Cr/Si Schottky Diodes Through I-V-T Measurement**
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- XLIV. Electrical Features of Au/-FeSi₂/n-Si Heterojunction Through J-V-T Measurement**
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25 th International Conference of The Turkish Physical Society, Muğla, Turkey, 25 - 29 August 2008
- XLV. Cr/Si Schottky kontakların Fotovoltaik Özelliklerin İncelenmesi**
Gökdemir F. P., Özdemir O., Bulgurcuoğlu A. E., Kutlu K., Tatar B., Menda U. D.
II.Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Eskişehir, Turkey, 13 June 2008
- XLVI. Cr/Si Schottky Kontakların Fotovoltaik Özelliklerinin İncelenmesi**
BULGURCUOĞLU A. E., TATAR B., CHOI F. P., KUTLU K., ÖZDEMİR O., MENDA U. D.
II. Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Eskişehir, Turkey, 12 June 2008, pp.22
- XLVII. " Fabrication and electrical properties of Ag/p-FePc/n-TiO₂/FTO heterojunction photovoltaic cell**
KAVAK P., TATAR B., KUTLU K., Ürgen M.
International Workshop on Advanced Materials and Devices for Photovoltaic Applications, Ankara, Turkey, 20 April 2008, pp.56
- XLVIII. Determination of conduction mechanism in Cr/beta-FeSi₂/n-Si heterojunction through I-V-T measurement**
BULGURCUOĞLU A. E., TATAR B., CHOI F. P., KUTLU K., ÖZDEMİR O., KAVAK P., MENDA U. D.
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- XLIX. Conduction Mechanism Analysis in beta-FeSi₂/n-Si Heterojunction Through J-V-T Measurement**
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- L. Birkaç Dış Faktörün Aynı Anda Etkisiyle Polimer Kompozitlerinin Yıpranmasının Önceden Söylenilmesi Problemleri Sözlü Bildiri**
Mamedov S., Varol S., Alekberov V., Kutlu K., Can N., Özcanlı Y.
Türk Fizik Derneği, 18.Fizik Kongresi, Adana, Turkey, 25 - 28 October 1999, pp.86
- LI. Farklı Taşıyıcı Sıcaklıklarında Kaplanan CeF₃ Filmlerinin Optik Parametrelerinin İncelenmesi**
CAN ÖMÜR B., Akçiz C., Kutlu K.
TFD-15 Türk Fizik Derneği 15.Fizik Kongresi, Antalya, Turkey, 26 September 1995, pp.236
- LII. İki Atomlu Bir Molekülün Titreşim ve Dönme Enerjileri**
Can N., Kutlu K.
Türk Fizik Derneği 15.Fizik Kongresi (TFD15), Antalya, Turkey, 26 - 29 September 1995, pp.195
- LIII. Annealing Effect of Sol-Gel Deposited ZnO Thin Film, Produced by Sol-Gel Technique**
ÖZDEMİR O., Saatci E., Kutlu K.
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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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Supported Projects

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

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

KUTLU K., CHOI F. P., Project Supported by Higher Education Institutions, Fotovoltaik uygulamalar için FeSi₂/Si heteroeklemlerin incelenmesi, 2007 - 2009

Metrics

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Non Academic Experience

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