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Education Information

Post Doctorate, University of Durham, Applied Physics Group, Physics, United Kingdom 1997 - 1998

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1992 - 1997

Postgraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1989 - 1992

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1984 - 1989

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Preparation and electrical structural optical characterization of In Se thin films, Middle East Technical University, 1997

Postgraduate, Effects of The Growth On The Properties of CdS Thin Films, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1993

Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2001 - Continues

Advising Theses

PARLAK M., Structural, optical and electrical characterization of CDSEXTE1-X thin films, Postgraduate, M.Demir(Student), 2020

TURAN R., PARLAK M., Investigation of electronic properties of detector grade cadmium zinc telluride crystals and development of electrodes for x-ray and gamma ray applications, Postgraduate, D.BENDER(Student), 2019

Parlak M., CZTSSe thin film: growth, characterization and solar cell applications, Doctorate, M.TERLEMEZOĞLU(Student), 2019

PARLAK M., Deposition of Cu-Zn-Sn-Se (CZTSe) thin films and investigation of their device properties, Doctorate, Ö.BAYRAKLI(Student), 2018

AYDINOL M. K. , PARLAK M., Production and characterization of carbon-silicon nanocomposite anode materials for secondary lithium batteries, Doctorate, B.MİSER(Student), 2017

PARLAK M., ERÇELEBİ A. Ç. , Material and device characterization of ZnInSe₂ and Cu_{0.5}Ag_{0.5}InSe₂ thin films for photovoltaic applications, Doctorate, H.HÜSEYİN(Student), 2016

PARLAK M., ERÇELEBİ A. Ç. , Investigation on the incorporation of quantum dot thin film layers in the organic and inorganic solar cell structures, Doctorate, İ.CANDAN(Student), 2016

ÖZENBAŞ A. M. , PARLAK M., Effect of transition metal substitution on high-temperature properties of thermoelectric materials, Doctorate, M.GÜNEŞ(Student), 2014

BEŞİKCİ C., PARLAK M., Molecular beam epitaxy growth of InP/InGaAs structures for short wavelength infrared photodetectors, Postgraduate, O.TEMEL(Student), 2014

PARLAK M., BEŞİKCİ C., Fabrication and characterization of InP based quantum well infrared photodetectors, Postgraduate, G.TORUNOĞLU(Student), 2012

BEŞİKCİ C., PARLAK M., Molecular beam epitaxy growth and characterization of mercury cadmium telluride epilayers for infrared detector applications, Postgraduate, A.TOLUNGÜÇ(Student), 2011

PARLAK M., Electrical, structural and optical properties of AgGaSe₂-xSx thin films grown by sintered powder, Doctorate, H.KARAAĞAÇ(Student), 2010

PARLAK M., Investigation of electrical and optical properties of Ag-In-Se based devices, Doctorate, M.KALELİ(Student), 2010

AKATA KURÇ B., PARLAK M., Synthesis and characterization of titanosilicate ETS-10 for potential photovoltaic applications, Postgraduate, S.GALİOĞLU(Student), 2010

PARLAK M., Investigation of structural, electrical and optical properties of Cu_{1-x}Ag_xInSe₂ thin films as a function of x content, Postgraduate, H.HÜSEYİN(Student), 2010

KARAKAŞ G., PARLAK M., PRODUCTION OF TITANIUM DIOXIDE THIN FILMS WITH IMPROVED PHOTOCATALYTIC ACTIVITY: THE USE OF BACTERIA AS 3D TEMPLATES, Postgraduate, B.KOÇ(Student), 2009

PARLAK M., Design and production of antireflection coating for Ge, ZnSe and ZnS in 8-12 micrometer wavelength region, Postgraduate, B.ÜÇER(Student), 2009

PARLAK M., Growth and characterization of CuIn_{1-x}GaxSe₂ (CIGS) thin films for solar cell structures, Postgraduate, İ.CANDAN(Student), 2009

PARLAK M., The effects of post-annealing process on the physical properties of silver-indium-selenium ternary semiconductor thin films deposited by electron beam technique, Doctorate, T.ÇOLAKOĞLU(Student), 2009

PARLAK M., Physical properties of CdSe thin films produced by thermal evaporation and e-beam techniques, Postgraduate, Ş.MUSTAFA(Student), 2006

PARLAK M., Electrical and structural characterization of bismuth thin films, Postgraduate, G.DURKAYA(Student), 2005

PARLAK M., Structural, electrical and optical characterization of Ge-implanted GaSe single crystal grown by Bridgman method, Postgraduate, H.KARAAĞAÇ(Student), 2005

PARLAK M., Investigation of InSe thin film based deviges, Doctorate, K.YILMAZ(Student), 2004

PARLAK M., Investigation of inse thin film based devices, Doctorate, K.Yılmaz(Student), 2004

PARLAK M., Growth and characterization of InSe single crystals, Postgraduate, D.DENİZ(Student), 2004

PARLAK M., Structural, electrical and optical characterization of N-and Si-implanted GaSe single crystal grown by Bridgman method, Doctorate, O.KARABULUT(Student), 2003

PARLAK M., The growth and characterization of GaSe thin films, Postgraduate, T.ÇOLAKOĞLU(Student), 2003

AKINOĞLU B. G. , PARLAK M., Structural electrical and optical characterization of N- and Si-implanted GaSe single crystal grown by bridgman method, Doctorate, O.Karabulut(Student), 2003

PARLAK M., The growth and characterization of gallium selenide thin films, Postgraduate, T.Çolakoğlu(Student), 2003

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

- I. **Investigation of seeded vertical gradient freeze (VGF) growth of CdZnTe bulk crystals**
BALBAŞI Ö. B. , ÜNAL M., Genç A. M. , ÇELİK G., PARLAK M., TURAN R.
Journal of Crystal Growth, vol.584, 2022 (Journal Indexed in SCI Expanded)
- II. **Interface stability problem towards the end of THM growth of cadmium zinc telluride crystals**
Ünal M., Balbaşı Ö. B. , Genç A. M. , Parlak M., Turan R.
Journal of Crystal Growth, vol.584, 2022 (Journal Indexed in SCI Expanded)
- III. **Growth and optical characterization of Sn_{0.6}Sb_{0.4}Se layer single crystals for optoelectronic applications**
Bektas T., Terlemezoglu M., Surucu O., Isik M., PARLAK M.
Materials Science in Semiconductor Processing, vol.141, 2022 (Journal Indexed in SCI Expanded)
- IV. **Growth and Characterization of Stoichiometric Cu₂ZnSnS₄ Crystal Using Vertical Bridgman Technique**
Peksu E., Terlemezoglu M., PARLAK M., Karaağaç H.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.219, no.3, 2022 (Journal Indexed in SCI)
- V. **Production of High-Performance CdZnTe Crystals Grown by THM for Radiation Detection Applications**
ÜNAL M., BALBAŞI Ö. B. , Karaman M. C. , Genç A. M. , PARLAK M., TURAN R.
Journal of Electronic Materials, 2022 (Journal Indexed in SCI Expanded)
- VI. **Temperature-dependent optical characteristics of sputtered NiO thin films**
Terlemezoglu M., Surucu O., Isik M., HASANLI N., PARLAK M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.1, 2022 (Journal Indexed in SCI)
- VII. **Characterization of Cu-rich and Zn-poor Cu₂ZnSnS₄ single crystal grown by vertical Bridgman technique**
Peksu E., Terlemezoglu M., PARLAK M., Karaağaç H.
Journal of Crystal Growth, vol.574, 2021 (Journal Indexed in SCI)
- VIII. **Fabrication of CdSexTe_{1-x} thin films by sequential growth using double sources**
DEMİR M., Gullu H., Terlemezoglu M., PARLAK M.
Physica B: Condensed Matter, vol.619, 2021 (Journal Indexed in SCI)
- IX. **Illumination and voltage effects on the forward and reverse bias current-voltage (I-V) characteristics in In/In₂S₃/p-Si photodiodes**
Yukselturk E., Surucu O., Terlemezoglu M., PARLAK M., ALTINDAL Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.17, pp.21825-21836, 2021 (Journal Indexed in SCI)
- X. **Structural and temperature-tuned bandgap characteristics of thermally evaporated beta-In₂S₃ thin films**
Surucu O., Isik M., Terlemezoglu M., Hasanlı N., Parlak M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.12, pp.15851-15856, 2021 (Journal Indexed in SCI)
- XI. **Improvement of electrical characteristics of SnSe/Si heterostructure by integration of Si nanowires**
Coskun E., Gullu H. H. , Emir C., Parlak M.
PHYSICA B-CONDENSED MATTER, vol.604, 2021 (Journal Indexed in SCI)
- XII. **Temperature effects on optical characteristics of CdSe thin films**
Gullu H. H. , Isik M., Surucu O., Hasanlı N., Parlak M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.123, 2021 (Journal Indexed in SCI)
- XIII. **Temperature-dependent optical characteristics of sputtered Ga-doped ZnO thin films**
Gullu H. H. , Isik M., Hasanlı N., Parlak M.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.263, 2021 (Journal Indexed in SCI)
- XIV. **Towards the fabrication of third generation solar cells on amorphous, flexible and transparent**

substrates with well-ordered and disordered Si-nanowires/pillars

Peksu E., Guller O., PARLAK M., Islam M. S. , Karaağaç H.

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.124, 2020 (Journal Indexed in SCI)

- XV. **Temperature-tuned band gap properties of MoS₂ thin films**
Surucu O., Isik M., Gasanly N., Terlemezoglu M., Parlak M.
MATERIALS LETTERS, vol.275, 2020 (Journal Indexed in SCI)
- XVI. **Investigation of band gap energy versus temperature for SnS₂ thin films grown by RF-magnetron sputtering**
Isik M., Gullu H. H. , Terlemezoglu M., Surucu O. B. , PARLAK M., Gasanly N.
PHYSICA B-CONDENSED MATTER, vol.591, 2020 (Journal Indexed in SCI)
- XVII. **Temperature dependent band gap in SnS₂xSe(2-2x) (x=0.5) thin films**
Delice S., Isik M., Gullu H. H. , Terlemezoglu M., Surucu O. B. , Gasanly N., Parlak M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.114, 2020 (Journal Indexed in SCI)
- XVIII. **Electrical characterization of CdZnTe/Si diode structure**
Balbasi C. D. , Terlemezoglu M., Gullu H. H. , Yildiz D. E. , Parlak M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, 2020 (Journal Indexed in SCI)
- XIX. **Influence of temperature on optical properties of electron-beam-evaporated ZnSe thin film**
Gullu H. H. , Isik M., Gasanly N., PARLAK M.
PHYSICA SCRIPTA, vol.95, no.7, 2020 (Journal Indexed in SCI)
- XX. **Material and Si-based diode analyses of sputtered ZnTe thin films**
Gullu H. H. , Surucu O. B. , Isik M., Terlemezoglu M., Parlak M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.14, pp.11390-11397, 2020 (Journal Indexed in SCI)
- XXI. **Frequency effect on electrical and dielectric characteristics of HfO₂-interlayered Si-based Schottky barrier diode**
Gullu H. H. , Yildiz D. E. , Surucu O., Parlak M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9394-9407, 2020 (Journal Indexed in SCI)
- XXII. **Temperature-dependent material characterization of CuZnSe₂ thin films**
Gullu H. H. , Surucu O., Terlemezoglu M., Isik M., Ercelebi C., Gasanly N., Parlak M.
THIN SOLID FILMS, vol.701, 2020 (Journal Indexed in SCI)
- XXIII. **Temperature -dependent optical and electrical characterization of Cu-Ga-S thin films and their diode characteristics on n-Si**
Gullu H. H. , Isik M., Gasanly N., PARLAK M.
OPTIK, vol.208, 2020 (Journal Indexed in SCI)
- XXIV. **Synthesis and temperature-tuned band gap characteristics of magnetron sputtered ZnTe thin films**
Isik M., Gullu H. H. , PARLAK M., Gasanly N.
PHYSICA B-CONDENSED MATTER, vol.582, 2020 (Journal Indexed in SCI)
- XXV. **INVESTIGATION OF CONDUCTIVITY CHARACTERISTICS OF Zn-In-Se THIN FILMS**
Gullu H. H. , Parlak M.
SURFACE REVIEW AND LETTERS, vol.27, no.1, 2020 (Journal Indexed in SCI)
- XXVI. **Material and device properties of Si-based Cu_{0.5}Ag_{0.5}InSe₂ thin-film heterojunction diode**
Gullu H. H. , Isik M., Delice S., Parlak M., Gasanly N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.2, pp.1566-1573, 2020 (Journal Indexed in SCI)
- XXVII. **Characterization of one-step deposited Cu₂ZnSnS₄ thin films derived from a single crystalline powder**
Peksu E., TERLEMEZOĞLU M., PARLAK M., Karaağaç H.
RENEWABLE ENERGY, vol.143, pp.1133-1142, 2019 (Journal Indexed in SCI)
- XXVIII. **Temperature dependence of band gaps in sputtered SnSe thin films**
Delice S., Isik M., Gullu H., TERLEMEZOĞLU M., Bayrakli Surucu O., PARLAK M., Gasanly N.

- JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.131, pp.22-26, 2019 (Journal Indexed in SCI)
- XXIX. **Investigation of electrical characteristics of Ag/ZnO/Si sandwich structure**
Gullu H. H. , Surucu O. B. , TERLEMEZOĞLU M., Yildiz D. E. , PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.16, pp.15371-15378, 2019 (Journal Indexed in SCI)
- XXX. **FABRICATION AND CHARACTERIZATION OF TiO₂ THIN FILM FOR DEVICE APPLICATIONS**
HOSSEINI A., GÜLLÜ H. H. , COŞKUN E., PARLAK M., ERÇELEBİ A. Ç.
SURFACE REVIEW AND LETTERS, vol.26, no.6, 2019 (Journal Indexed in SCI)
- XXXI. **CZTSSe thin films fabricated by single step deposition for superstrate solar cell applications**
TERLEMEZOĞLU M., Surucu O. B. , Dogru C., Gullu H. H. , ÇİFTPINAR E. H. , Ercelebi C., PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.12, pp.11301-11306, 2019 (Journal Indexed in SCI)
- XXXII. **Analysis of temperature-dependent transmittance spectra of Zn_{0.5}In_{0.5}Se (ZIS) thin films**
Isik M., Gullu H. H. , Delice S., Gasanly N., PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.10, pp.9356-9362, 2019 (Journal Indexed in SCI)
- XXXIII. **Frequency effect on electrical and dielectric characteristics of In/Cu₂ZnSnTe₄/Si/Ag diode structure**
Gullu H. H. , Surucu O. B. , TERLEMEZOĞLU M., Yildiz D. E. , PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.10, pp.9814-9821, 2019 (Journal Indexed in SCI)
- XXXIV. **Electrical Characterization of ZnInSe₂/Cu_{0.5}Ag_{0.5}InSe₂ Thin-Film Heterojunction**
Gullu H. H. , PARLAK M.
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.5, pp.3096-3104, 2019 (Journal Indexed in SCI)
- XXXV. **Temperature dependence of electrical properties in In/Cu₂ZnSnTe₄/Si/Ag diodes**
Gullu H. H. , YILDIZ D. E. , Surucu O. B. , TERLEMEZOĞLU M., PARLAK M.
BULLETIN OF MATERIALS SCIENCE, vol.42, no.2, 2019 (Journal Indexed in SCI)
- XXXVI. **Structural and temperature-dependent optical properties of thermally evaporated CdS thin films**
IŞIK M., Gullu H. H. , Delice S., PARLAK M., Gasanly N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.93, pp.148-152, 2019 (Journal Indexed in SCI)
- XXXVII. **Effects of Si nanowire on the device properties of n-ZnSe/p-Si heterostructure**
COŞKUN E., Gullu H. H. , Colakoglu T., Emir C., Bozdogan E., PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.5, pp.4760-4765, 2019 (Journal Indexed in SCI)
- XXXVIII. **PbS quantum dot enhanced p-CIGS/n-Si heterojunction diode**
Candan I., PARLAK M., Ercelebi C.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.3, pp.2127-2135, 2019 (Journal Indexed in SCI)
- XXXIX. **Construction of self-assembled vertical nanoflakes on CZTSSe thin films**
TERLEMEZOĞLU M., SURUCU O. B. , COLAKOGLU T., ABAK M. K. , Gullu H. H. , Ercelebi C., PARLAK M.
MATERIALS RESEARCH EXPRESS, vol.6, no.2, 2019 (Journal Indexed in SCI)
- XL. **Investigation of carrier transport mechanisms in the Cu-Zn-Se based hetero-structure grown by sputtering technique**
Gullu H. H. , TERLEMEZOĞLU M., Bayrakli O., Yildiz D. E. , PARLAK M.
CANADIAN JOURNAL OF PHYSICS, vol.96, no.7, pp.816-825, 2018 (Journal Indexed in SCI)
- XLI. **Temperature dependence of electrical properties in Cu_{0.5}Ag_{0.5}InSe₂/Si heterostructure**
Gullu H. H. , PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.13, pp.11258-11264, 2018 (Journal Indexed in SCI)
- XLII. **INVESTIGATION ON DEVICE CHARACTERISTICS OF n-CdS/p-Ag(Ga-In)Te-2 HETEROJUNCTION DIODE**
Bayrakli O., Gullu H. H. , PARLAK M.
SURFACE REVIEW AND LETTERS, vol.25, no.5, 2018 (Journal Indexed in SCI)

- XLIII. **Analysis of current conduction mechanism in CZTSSe/n-Si structure**
TERLEMEZOĞLU M., Bayraklı O., Gullu H. H. , COLAKOĞLU T., Yildiz D. E. , PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.7, pp.5264-5274, 2018 (Journal Indexed in SCI)
- XLIV. **HRTEM Analysis of Crystallographic Defects in CdZnTe Single Crystal**
Yasar B., ERGUNT Y., KABUKCUOĞLU M. P. , PARLAK M., TURAN R., KALAY Y. E.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.1, pp.778-784, 2018 (Journal Indexed in SCI)
- XLV. **Study on the electrical properties of ZnSe/Si heterojunction diode**
Gullu H. H. , Bayraklı O., Yildiz D. E. , PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.23, pp.17806-17815, 2017 (Journal Indexed in SCI)
- XLVI. **Optical and electrical characteristics of thermally evaporated Cu_{0.5}Ag_{0.5}InSe₂ thin films**
Gullu H. H. , Bayraklı O., PARLAK M.
THIN SOLID FILMS, vol.639, pp.29-35, 2017 (Journal Indexed in SCI)
- XLVII. **Electric and photoelectric properties of n-AgInSe₂/p-Si heterojunction diode fabricated by successive layer deposition**
KALELİ M., ALDEMİR D. A. , PARLAK M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.123, no.9, 2017 (Journal Indexed in SCI)
- XLVIII. **Investigation of precursor sequence and post-annealing effects on the properties of Cu₂SnZnSe₄ thin films deposited by the elemental thermal evaporation**
Bayraklı O., TERLEMEZOĞLU M., Gullu H. H. , PARLAK M.
MATERIALS RESEARCH EXPRESS, vol.4, no.8, 2017 (Journal Indexed in SCI)
- XLIX. **Deposition of CZTSe thin films and illumination effects on the device properties of Ag/n-Si/p-CZTSe/In heterostructure**
Bayraklı O., TERLEMEZOĞLU M., GULLU H. H. , PARLAK M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.709, pp.337-343, 2017 (Journal Indexed in SCI)
- L. **Structural characterization of Zn-In-Se thin films**
Gullu H. H. , PARLAK M.
MODERN PHYSICS LETTERS B, vol.31, no.5, 2017 (Journal Indexed in SCI)
- LI. **Investigations of thermal annealing role on the optical properties of Zn-In-Se thin films**
Gullu H. H. , COŞKUN E., PARLAK M.
OPTİK, vol.144, pp.603-612, 2017 (Journal Indexed in SCI)
- LII. **Structural characteristics of thermally evaporated Cu_{0.5}Ag_{0.5}InSe₂ thin films**
Gullu H. H. , PARLAK M.
MATERIALS RESEARCH EXPRESS, vol.3, no.5, 2016 (Journal Indexed in SCI)
- LIII. **Cu(In,Ga)(Se,Te)(₂) pentenary thin films formed by reaction of precursor layers**
Atasoy Y., Basol B. M. , POLAT İ., TOMAKİN M., PARLAK M., BACAŞIZ E.
THIN SOLID FILMS, vol.592, pp.189-194, 2015 (Journal Indexed in SCI)
- LIV. **Device behavior of an In/p-Ag(Ga,In)Te-₂/n-Si/Ag heterojunction diode**
Coskun E., Gullu H. H. , CANDAN İ., Bayraklı O., PARLAK M., Ercelebi C.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.34, pp.138-145, 2015 (Journal Indexed in SCI)
- LV. **Study on the Structural and Electrical Properties of Sequentially Deposited Ag-Ga-In-Te Thin Films**
Coskun E., Gullu H. H. , PARLAK M., Ercelebi C.
JOURNAL OF LOW TEMPERATURE PHYSICS, vol.178, pp.162-173, 2015 (Journal Indexed in SCI)
- LVI. **Investigation of structural and optical parameters of Cu-Ag-In-Se thin films deposited by thermal evaporation method**
Gullu H. H. , CANDAN İ., COŞKUN E., PARLAK M.
OPTİK, vol.126, no.18, pp.1578-1583, 2015 (Journal Indexed in SCI)
- LVII. **Characterization of Co-evaporated Cu-Ag-In-Se Thin Films**
Gullu H. H. , COŞKUN E., PARLAK M.
BRAZILIAN JOURNAL OF PHYSICS, vol.44, no.6, pp.719-725, 2014 (Journal Indexed in SCI)

- LVIII. Device application of AgGa_{0.5}In_{0.5}Se₂ thin films deposited by thermal sequential stacked layer method**
COŞKUN E., Gullu H. H. , PARLAK M.
MATERIALS RESEARCH EXPRESS, vol.1, no.4, 2014 (Journal Indexed in SCI)
- LIX. SYNTHESIS AND APPLICATION OF RGD-BASED BIOSENSOR AND BIOIMAGING MATERIALS**
PARLAK M., ÖZÇUBUKÇU S.
JOURNAL OF PEPTIDE SCIENCE, vol.20, 2014 (Journal Indexed in SCI)
- LX. An instrument for the high temperature measurement of the Seebeck coefficient and electrical resistivity**
GÜNEŞ M., PARLAK M., Ozenbas M.
MEASUREMENT SCIENCE AND TECHNOLOGY, vol.25, no.5, 2014 (Journal Indexed in SCI)
- LXI. Production and characterization of layer by layer sputtered single-phase AgInSe₂ thin film by thermal selenization**
KALELİ M., ÇOLAKOĞLU T., PARLAK M.
APPLIED SURFACE SCIENCE, vol.286, pp.171-176, 2013 (Journal Indexed in SCI)
- LXII. Silicon nanowire-silver indium selenide heterojunction photodiodes**
KULAKCI M., ÇOLAKOĞLU T., OZDEMİR B., PARLAK M., ÜNALAN H. E. , TURAN R.
NANOTECHNOLOGY, vol.24, no.37, 2013 (Journal Indexed in SCI)
- LXIII. Preparation and characterization of cost effective spray pyrolyzed absorber layer for thin film solar cells**
Sankir N. D. , Aydin E., Unver H., Uluer E., PARLAK M.
SOLAR ENERGY, vol.95, pp.21-29, 2013 (Journal Indexed in SCI)
- LXIV. A baseball-bat-like CdTe/TiO₂ nanorods-based heterojunction core-shell solar cell**
Karaagac H., PARLAK M., Aygun L. E. , Ghaffari M., Biyikli N., Okyay A. K.
SCRIPTA MATERIALIA, vol.69, no.4, pp.323-326, 2013 (Journal Indexed in SCI)
- LXV. Structural and optical properties of Zn-In-Te thin films deposited by thermal evaporation technique**
Gullu H. H. , Bayraklı O., CANDAN İ., COŞKUN E., PARLAK M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.566, pp.83-89, 2013 (Journal Indexed in SCI)
- LXVI. Heterojunction solar cells with integrated Si and ZnO nanowires and a chalcopyrite thin film**
KARAAĞAÇ H., PARLAK M., YENGEL E., İslam M. S.
MATERIALS CHEMISTRY AND PHYSICS, vol.140, no.1, pp.382-390, 2013 (Journal Indexed in SCI)
- LXVII. Defect-induced room temperature ferromagnetism in B-doped ZnO**
Yilmaz S., Nisar J., Atasoy Y., McGlynn E., Ahuja R., PARLAK M., BACAŞIZ E.
CERAMICS INTERNATIONAL, vol.39, no.4, pp.4609-4617, 2013 (Journal Indexed in SCI)
- LXVIII. Surface morphology and depth profile study of Cd_{1-x}Zn_xTe alloy nanostructures**
Yilmaz E., Tugay E., Aktag A., YILDIZ İ., PARLAK M., TURAN R.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.545, pp.90-98, 2012 (Journal Indexed in SCI)
- LXIX. Au/TiO₂ nanorod-based Schottky-type UV photodetectors**
Karaagac H., Aygun L. E. , PARLAK M., Ghaffari M., Biyikli N., Okyay A. K.
PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, vol.6, no.11, pp.442-444, 2012 (Journal Indexed in SCI)
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