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Eğitim Bilgileri

Post Doktora, University of Durham, Applied Physics Group, Physics, Birleşik Krallık 1997 - 1998

Doktora, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1992 - 1997

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1989 - 1992

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1984 - 1989

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Preparation and electrical structural optical characterization of In Se thin films, Orta Doğu Teknik Üniversitesi, 1997

Yüksek Lisans, Effects of The Growth On The Properties of CdS Thin Films, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1993

Araştırma Alanları

Fizik, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Elektronik yapı, arayüzeylerin, ince filmlerin ve düşük boyutlu yapıların elektrik özellikleri, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2001 - Devam Ediyor

Yonetilen Tezler

- PARLAK M., Growth, characterization and device applications of cadmium zinc telluride thin films, Doktora, Ç.DOĞRU(Öğrenci), 2022
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Exploring Temperature-Dependent bandgap and Urbach energies in CdTe thin films for optoelectronic applications**
Surucu O., Sürücü G., Hasanli N., Parlak M., Isik M.
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- II. **Performance analysis of CuSbSe₂ thin-film solar cells with Cd-free window layers**
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- III. **A new method to determine the continuous refractive index of an absorbing film by Generalized Stockwell Transform**
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- IV. **Nanowire geometry effects on devices and transport mechanisms: SnS₂/SiNW heterojunction**
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Ünal M., Balbaşı Ö. B., Sedani S. H., Karaman M. C., Çelik G., Bender D., Genç A. M., Parlak M., Turan R.
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- X. **Investigation of seeded vertical gradient freeze (VGF) growth of CdZnTe bulk crystals**
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- XIII. **Temperature-dependent optical characteristics of sputtered NiO thin films**
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- XIV. **Characterization of Cu-rich and Zn-poor Cu₂ZnSnS₄ single crystal grown by vertical Bridgman technique**
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- XV. **Fabrication of CdSexTe1-x thin films by sequential growth using double sources**
Demir M., Gullu H., Terlemezoglu M., Parlak M.
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- XVI. **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.
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- XVII. **Structural and temperature-tuned bandgap characteristics of thermally evaporated beta-In₂S₃ thin films**
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- XVIII. **Temperature effects on optical characteristics of CdSe thin films**
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- XXX. **Temperature -dependent optical and electrical characterization of Cu-Ga-S thin films and their diode characteristics on n-Si**
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- XXXIV. **Characterization of one-step deposited Cu₂ZnSnS₄ thin films derived from a single crystalline powder**
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- XXXV. **Investigation of electrical characteristics of Ag/ZnO/Si sandwich structure**
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- XXXVII. **FABRICATION AND CHARACTERIZATION OF TiO₂ THIN FILM FOR DEVICE APPLICATIONS**
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- XL. **Frequency effect on electrical and dielectric characteristics of In/Cu₂ZnSnTe₄/Si/Ag diode structure**
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- XLI. **Analysis of temperature-dependent transmittance spectra of Zn_{0.5}In_{0.5}Se (ZIS) thin films**
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- XLIV. **Effects of Si nanowire on the device properties of n-ZnSe/p-Si heterostructure**
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- XLV. **PbS quantum dot enhanced p-CIGS/n-Si heterojunction diode**
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- XLVI. **Construction of self-assembled vertical nanoflakes on CZTSSe thin films**
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- XLVII. **INVESTIGATION ON DEVICE CHARACTERISTICS OF n-CdS/p-Ag(Ga-In)Te-2 HETEROJUNCTION DIODE**
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- XLVIII. **Temperature dependence of electrical properties in Cu_{0.5}Ag_{0.5}InSe₂/Si heterostructure**
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- XLIX. **Investigation of carrier transport mechanisms in the Cu-Zn-Se based hetero-structure grown by sputtering technique**
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- L. **Analysis of current conduction mechanism in CZTSSe/n-Si structure**
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- LI. **HRTEM Analysis of Crystallographic Defects in CdZnTe Single Crystal**
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- LII. **Study on the electrical properties of ZnSe/Si heterojunction diode**
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- LIV. **Electric and photoelectric properties of n-AgInSe₂/p-Si heterojunction diode fabricated by successive layer deposition**
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- LV. **Investigation of precursor sequence and post-annealing effects on the properties of Cu₂SnZnSe₄ thin films deposited by the elemental thermal evaporation**
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- LVI. **Deposition of CZTSe thin films and illumination effects on the device properties of Ag/n-Si/p-CZTSe/In heterostructure**
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- LVII. **Structural characterization of Zn-In-Se thin films**
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- LVIII. **Investigations of thermal annealing role on the optical properties of Zn-In-Se thin films**
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- LX. **Cu(In,Ga)(Se,Te)₂ pentenary thin films formed by reaction of precursor layers**
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- LXI. **Device behavior of an In/p-Ag(Ga,In)Te-2/n-Si/Ag heterojunction diode**
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- I. **CdZnTe BULK-CRYSTAL GROWTH AND SURFACE PROCESSING TECHNOLOGY AT METU-CGL**
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- III. **Directional Self Assembly of Nanoflakes on the Surface of CZTSSe Thin Films on Glass Substrates: Growth and Characterization**
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