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Education Information

Doctorate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 1998 - 2002

Postgraduate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 1993 - 1997

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 1989 - 1993

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2005 - 2009

Courses

Optics, Undergraduate, 2014 - 2015

Fizik-I, Undergraduate, 2014 - 2015

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

- I. **Fabrication of CdS nanospheres-based hybrid solar cells having increased efficiency**
Yılmaz S., Unverdi A., TOMAKİN M., POLAT İ., BACAŞIZ E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.3, 2022 (Journal Indexed in SCI)
- II. **Effect of ultra-thin CdSe(x)Te(1-x) interface layer on parameters of CdTe solar cells**
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- III. **Effect of CdS and CdSe pre-treatment on interdiffusion with CdTe in CdS/CdTe and CdSe/CdTe heterostructures**
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- IV. **Silver Doped Zinc Stannate (Ag-ZnSnO₃) for the Photocatalytic Degradation of Caffeine under UV Irradiation**
Anucha C. B., Altın İ., BACAŞIZ E., Stathopoulos V. N., POLAT İ., YAŞAR A., Yüksel Ö. F.
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- V. **Processing CdS- and CdSe-containing window layers for CdTe solar cells**

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- VI. **Phase transformation in Cu₂SnS₃ (CTS) thin films through pre-treatment in sulfur atmosphere**
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- VII. **Deposition of CdSeTe alloys using CdTe-CdSe mixed powder source material in a close-space sublimation process**
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- VIII. **Enhanced Photocatalytic Activity of CuWO₄ Doped TiO₂ Photocatalyst Towards Carbamazepine Removal under UV Irradiation**
Anucha C. B. , ALTIN İ., BACAKSIZ E., KÜÇÜKÖMEROĞLU T., Belay M. H. , Stathopoulos V. N.
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- IX. **Immobilized TiO₂/ZnO Sensitized Copper (II) Phthalocyanine Heterostructure for the Degradation of Ibuprofen under UV Irradiation**
BethelAnucha C., Altin I., BACAKSIZ E., DEĞİRMENCİOĞLU İ., KÜÇÜKÖMEROĞLU T., Yilmaz S., Stathopoulos V. N.
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- X. **Hydrothermal preparation of B-TiO₂-graphene oxide ternary nanocomposite, characterization and photocatalytic degradation of bisphenol A under simulated solar irradiation**
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- XI. **Synthesis and characterization of B/NaF and silicon phthalocyanine-modified TiO₂ and an evaluation of their photocatalytic removal of carbamazepine**
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- XII. **Synthesis, Characterization, and Photocatalytic Evaluation of Manganese (III) Phthalocyanine Sensitized ZnWO₄ (ZnWO₄MnPc) for Bisphenol A Degradation under UV Irradiation**
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- XIII. **Structural, morphological, optical analyses of Ni-doped CdS thin films and their photovoltaic performance in hybrid solar cells**
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- XIV. **Transparent and conductive CdS:Ca thin films for optoelectronic applications**
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APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.7, 2020 (Journal Indexed in SCI)
- XV. **Growth and characterization of Cu₂SnS₃ (CTS), Cu₂SnSe₃ (CTSe), and Cu₂Sn(S,Se)₃ (CTSSe) thin films using dip-coated Cu-Sn precursor**
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- XVI. **Structural, optical and Schottky diode properties of Cu₂ZnSnS₄ thin films grown by two-stage method**
Atasoy Y., OLGAR M. A. , BACAKSIZ E.
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- XVII. **Improved optical transparency of calcium-doped ZnO thin films**
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- OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.13, pp.326-332, 2019 (Journal Indexed in SCI)
- XVIII. **Growth of Cu₂ZnSnS₄ (CZTS) thin films using short sulfurization periods**
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- XIX. **Cu(In,Ga)Te-2 film growth by a two-stage technique utilizing rapid thermal processing**
ERKAN S., BASOL B. M. , Atasoy Y., CIRIS A., Yuksel O. F. , BACAKSIZ E.
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- XX. **Determination of optimum Er-doping level to get high transparent and low resistive Cd_{1-x}Er_xS thin films**
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- XXI. **Alloying and phase transformation in CdS/CdSe bilayers annealed with or without CdCl₂**
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- XXIII. **A research on growth and characterization of CdS:Eu thin films**
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- XXIV. **Surface modification of CBD-grown CdS thin films for hybrid solar cell applications**
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- XXV. **Influence of pre-annealing Cu-Sn on the structural properties of CZTSe thin films grown by a two-stage process**
Olgar M., Başol B., TOMAKIN M., Seyhan A., BACAKSIZ E.
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- XXVI. **Optical and electrical optimization of dysprosium-doped CdS thin films**
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- XXVII. **Sm-doped CdS thin films prepared by spray pyrolysis: a structural, optical, and electrical examination**
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- XXVIII. **An evaluation of structural, optical and electrical characteristics of Ag/ZnO rods/SnO₂/In-Ga Schottky diode**
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- XXIX. **Electrodeposition of Si-DLC nanocomposite film and its electronic application**
Basman N., Uzun R., Gocer E., BACAKSIZ E., KOLEMEN U.
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- XXX. **Cu(In,Ga)(Se,Te)(2) films formed on metal foil substrates by a two-stage process employing electrodeposition and evaporation**
Atasoy Y., BASOL B. M. , OLGAR M. A. , Tomakin M., BACAKSIZ E.
THIN SOLID FILMS, vol.649, pp.30-37, 2018 (Journal Indexed in SCI)
- XXXI. **The Investigation of Current-Conduction Mechanisms of Te/NaF:CdS/SnO₂ Structure in Wide**

Temperature Range of 80-400 K

Sevgili O., YILMAZ Ş., Altmdal S., BACAŞIZ E., Bilkan C.

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- XXXII. **Synthesis and characterization of ZnO micro-rods and temperature-dependent characterizations of heterojunction of ZnO microrods/CdTe and ZnO microrods/ZnTe structures**
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- XXXIV. **Enhancement in the optical and electrical properties of CdS thin films through Ga and K co-doping**
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- XXXV. **Effect of heat treating metallic constituents on the properties of Cu₂ZnSnSe₄ thin films formed by a two-stage process**
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- XXXVI. **Physical properties of CdS:Ga thin films synthesized by spray pyrolysis technique**
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- XXXVIII. **Cu(In,Ga)(Se,Te)(₂) pentenary thin films formed by reaction of precursor layers**
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- XXXIX. **Microstructure And Tribological Properties Of Ti Borided By Electron Beam Evaporation Technique**
Kara G., Pürçek G., Bacaksız E., Atasoy Y.
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- XL. **A novel nanostructured CuIn_{0.7}Ga_{0.3}(Se_{0.4}Te_{0.6})(₂)/SLG multinary compounds thin films: For photovoltaic applications**
Varol S. F. , BACAŞIZ E., Koralli P., Kompitsas M., ÇANKAYA G.
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- XLI. **MICROSTRUCTURE AND TRIBOLOGICAL PROPERTIES OF Ti BORIDED BY ELECTRON BEAM EVAPORATION TECHNIQUE**
KARA G., PÜRÇEK G., ATASOY Y., BACAŞIZ E.
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- XLII. **The influence of Cu-doping on structural, optical and photocatalytic properties of ZnO nanorods**
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- XLIII. **Synthesis and characterization of Mn-doped ZnO nanorods grown in an ordered periodic honeycomb pattern using nanosphere lithography**
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- XLV. **Optical and Structural Properties of Nanostructured CuIn_{0.7}Ga_{0.3}(Se_{1-x})Te_x(2) Chalcopyrite Thin Films-Effect of Stoichiometry and Annealing**
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- XLVI. **Structural, morphological, optical and electrical evolution of spray deposited ZnO rods co-doped with indium and sulphur atoms**
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- XLVII. **Defect-mediated ferromagnetism in ZnO:Mn nanorods**
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- LII. **Defect-induced room temperature ferromagnetism in B-doped ZnO**
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- LIV. **Fabrication and structural, electrical characterization of i-ZnO/n-ZnO nanorod homojunctions**
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