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Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, Türkiye 1998 - 2002

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, Türkiye 1993 - 1997

Lisans, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, Türkiye 1989 - 1993

Yaptığı Tezler

Doktora, CdS ince filmlerin farklı yöntemlerle büyütülmesi, yapısal, elektriksel ve optiksel özelliklerinin incelenmesi, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2002

Yüksek Lisans, Bakır difüzyonunun CuGaSe₂-Ga As güneş pillerinin karakteristiklerine etkisi, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 1997

Araştırma Alanları

Fizik, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Yüzeyler ve arayüzeyler; İnce filmler ve nanosistemler, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, 2014 - Devam Ediyor

Doç. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, 2009 - 2014

Yrd. Doç. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, 2005 - 2009

Öğretim Görevlisi Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, 2002 - 2004

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, 1995 - 2002

Verdiği Dersler

Optics, Lisans, 2014 - 2015

Fizik-I, Lisans, 2014 - 2015

Yönetilen Tezler

Bacaksız E., Development of doped TiO₂ photocatalyst on α-Al₂O₃ ceramic substrate and their use in the degradation of ibuprofen, caffeine, and carbamazepine as model contaminants of emerging concern (CECs), Doktora, C.BETHEL(Öğrenci), 2022

BACAKSIZ E., CdS/CdTe güneş hücrelerinde pencere ve soğurma katmanlarına selenyum katkısının hücre performansına etkisinin incelenmesi, Doktora, A.Çiriş(Öğrenci), 2021

BACAKSIZ E., Tellür katkılı Cu(In,Ga)Se₂ ince filmlerinin üretimi ve bazı yapısal, optik ve elektrik özelliklerinin incelenmesi, Doktora, Y.Atasoy(Öğrenci), 2018

Bacaksız E., İki-aşamalı bir teknik kullanılarak büyütülen Cu(In, Ga)Te₂ (CIGT) ince filmlerinin bazı yapısal özelliklerinin incelenmesi, Yüksek Lisans, S.Erkan(Öğrenci), 2018

BACAKSIZ E., Cu₂ZnSnS₄ (CZTS) tabanlı ince film güneş hücrelerinde film homojenliğinin hücre verimi üzerindeki etkisinin incelenmesi, Doktora, M.Ali(Öğrenci), 2017

Bacaksız E., ZnO tabanlı seyreltik manyetik yarıiletkenlerin üretimi ve bazı yapısal, optik ve manyetik özelliklerinin incelenmesi, Doktora, S.Yılmaz(Öğrenci), 2013

Bacaksız E., İki-aşamalı büyütme tekniği ile hazırlanan CuInSe₂ filmlerinin yapısal, optik ve Schottky diyot özellikleri, Yüksek Lisans, Y.Atasoy(Öğrenci), 2012

Bacaksız E., Cu/CdS/SnO₂ /In-Ga yapısının akım iletim mekanizmalarının incelenmesi, Yüksek Lisans, H.Bayrak(Öğrenci), 2011

Bacaksız E., Düşük altlık sıcaklıklarında üretilen CdTe ince filmlere CdCl₂'ün etkisinin incelenmesi, Yüksek Lisans, S.Yılmaz(Öğrenci), 2007

Bacaksız E., Kimyasal püskürtme yöntemiyle elde edilen CdO ince filmlerinin bazı yapısal, elektriksel ve optik özelliklerinin incelenmesi, Yüksek Lisans, İ.POLAT(Öğrenci), 2006

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Development of photovoltaic and photodetection characteristics in CdS/P3HT devices through Al-doping**
Törel S., Yılmaz S., TOMAKİN M., POLAT İ., BACAKSIZ E.
Materials Science and Engineering: B, cilt.309, 2024 (SCI-Expanded)
- II. **Enhancement of the response speed of CIGS-based photodetector by Te-doping**
Yılmaz S., Başol B. M., Atasoy Y., POLAT İ., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
Sensors and Actuators A: Physical, cilt.377, 2024 (SCI-Expanded)
- III. **Improving photovoltaic characteristics of CdS-based hybrid solar cells through Mn incorporation**
Doğan V., Yılmaz S., TOMAKİN M., Törel S., POLAT İ., BACAKSIZ E.
Journal of Photochemistry and Photobiology A: Chemistry, cilt.453, 2024 (SCI-Expanded)
- IV. **Improvement in performance of SnSe-based photodetectors via post deposition sulfur diffusion**
Yılmaz S., Başol B. M., POLAT İ., Olğar M. A., BAYAZIT T., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
Sensors and Actuators A: Physical, cilt.372, 2024 (SCI-Expanded)
- V. **Introduction of Co atoms into CdS thin films for improving photovoltaic properties**
Yılmaz S., Doğan V., TOMAKİN M., Törel S., POLAT İ., BACAKSIZ E.
Materials Today Communications, cilt.39, 2024 (SCI-Expanded)
- VI. **Employing pre-annealing as a control tool for alloying in CdSeTe/ CdTe stacks produced by evaporation in vacuum**
Çiriş A., Atasoy Y., Bacaksız E.
MICRO AND NANOSTRUCTURES, cilt.190, 2024 (SCI-Expanded)
- VII. **Performance assessment of oxygenated CdS films-based photodetector**
POLAT İ., Yılmaz S., KÜÇÜKÖMEROĞLU T., TOMAKİN M., BACAKSIZ E.
Materials Today Communications, cilt.38, 2024 (SCI-Expanded)
- VIII. **Improving device performance of sputtered CZTSe based solar cells by Manganese doping**
Atasoy Y., Başol B. M., BACAKSIZ E.
Optical Materials, cilt.149, 2024 (SCI-Expanded)

- IX. **Impact of CdSeTe and CdSe film deposition parameter on the properties of CdSeTe/CdTe absorber structure for solar cell applications**
Çiriş A., Atasoy Y., TOMAKİN M., KARACA A., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
Semiconductor Science and Technology, cilt.39, sa.2, 2024 (SCI-Expanded)
- X. **Improved CZTSe solar cell efficiency via silver and germanium alloying**
Atasoy Y., BACAKSIZ E., Çiriş A., Olğar M. A., Zan R., Al-dala Ali A. M., KÜÇÜKÖMEROĞLU T., Başol B. M.
Solar Energy, cilt.267, 2024 (SCI-Expanded)
- XI. **An Investigation on CdSeTe/CdTe Stacks Deposited by Evaporation: Impact of Halide Treatment Depending on the Applied Surface**
Çiriş A., Atasoy Y., TOMAKİN M., BACAKSIZ E.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, cilt.221, sa.2, 2024 (SCI-Expanded)
- XII. **Self-driven, stable broadband photodetector based on GaAs:CdS heterojunction with ultrahigh on/off ratio and detectivity**
YILDIRIM F., BACAKSIZ E., Türüt A., AYDOĞAN Ş.
Surfaces and Interfaces, cilt.44, 2024 (SCI-Expanded)
- XIII. **Growth and characterization of CT(S,Se) thin films and Al/n-Si/p-CT(S,Se)/Mo heterojunction diode application employing a two-stage process**
Bayazıt T., Olğar M. A., Küçükömeroğlu T., Bacaksız E., Tomakin M.
SENSORS AND ACTUATORS A-PHYSICAL, cilt.363, 2023 (SCI-Expanded)
- XIV. **Investigation of growth temperature effects on SnSe-based photodetector performance**
Yılmaz S., Başol B. M., POLAT İ., Çiriş A., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.34, sa.27, 2023 (SCI-Expanded)
- XV. **Photodetector properties of CdSe thin films grown by close space sublimation method**
Olğar M. A., Başol B. M., POLAT İ., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.34, sa.25, 2023 (SCI-Expanded)
- XVI. **CdSe thin films-based photodetector doped with Cu, In and Ga atoms: a comparative work**
Yılmaz S., Polat İ., Tomakin M., Küçükömeroğlu T., Bacaksız E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.129, sa.8, 2023 (SCI-Expanded)
- XVII. **Facile synthesis and characterization of CdS thin films doped by yttrium atoms**
Yılmaz S., TOMAKİN M., POLAT İ., BACAKSIZ E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.129, sa.8, 2023 (SCI-Expanded)
- XVIII. **Characterization of Cu(In,Ga)(Te,S)₂ thin films grown on stainless steel foil substrates**
KARACA A., Başol B. M., Olğar M. A., Büyüklimanlı T., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.56, sa.19, 2023 (SCI-Expanded)
- XIX. **The effect of ZnCl₂ and CdCl₂ treatment on ZnS/CdS junction partner on CdTe cell performance**
Çiriş A., Atasoy Y., KARACA A., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
Materials Science in Semiconductor Processing, cilt.149, 2022 (SCI-Expanded)
- XX. **Comparison of the impact of different chlorination treatments to ZnS and CdS thin films**
Çiriş A., Atasoy Y., Tomakin M., Bacaksız E.
MICRO AND NANOSTRUCTURES, cilt.170, 2022 (SCI-Expanded)
- XXI. **Molybdenum Modified Sol-Gel Synthesized TiO₂ for the Photocatalytic Degradation of Carbamazepine under UV Irradiation**
Anucha C. B., BACAKSIZ E., Stathopoulos V. N., Pandis P. K., Argirusis C., Andreouli C., Tatoudi Z., ALTIN İ.
PROCESSES, cilt.10, sa.6, 2022 (SCI-Expanded)
- XXII. **Preparation and Characterization of Supported Molybdenum Doped TiO₂ on α-Al₂O₃ Ceramic Substrate for the Photocatalytic Degradation of Ibuprofen (IBU) under UV Irradiation**
Anucha C. B., BACAKSIZ E., Stathopoulos V. N., Pandis P. K., Argirusis C., Andreouli C., Tatoudi Z., ALTIN İ.
Catalysts, cilt.12, sa.5, 2022 (SCI-Expanded)
- XXIII. **Preparation and Characterization of Supported Molybdenum Doped TiO₂ on alpha-Al₂O₃ Ceramic Substrate for the Photocatalytic Degradation of Ibuprofen (IBU) under UV Irradiation**

- Anucha C. B., BACAŞIZ E., Stathopoulos V. N., Pandis P. K., Argirusis C., Andreouli C., Tatoudi Z., ALTIN İ. CATALYSTS, cilt.12, sa.5, 2022 (SCI-Expanded)
- XXIV. **Fabrication of CdS nanospheres-based hybrid solar cells having increased efficiency**
Yilmaz S., Unverdi A., TOMAKİN M., POLAT İ., BACAŞIZ E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.128, sa.3, 2022 (SCI-Expanded)
- XXV. **Effect of ultra-thin CdSe(x)Te(1-x) interface layer on parameters of CdTe solar cells**
Ciris A., Basol B. M., Atasoy Y., KARACA A., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAŞIZ E.
SOLAR ENERGY, cilt.234, ss.128-136, 2022 (SCI-Expanded)
- XXVI. **Effect of CdS and CdSe pre-treatment on interdiffusion with CdTe in CdS/CdTe and CdSe/CdTe heterostructures**
Çiriş A., Başol B. M., Atasoy Y., KÜÇÜKÖMEROĞLU T., KARACA A., TOMAKİN M., BACAŞIZ E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.128, 2021 (SCI-Expanded)
- XXVII. **Silver Doped Zinc Stannate (Ag-ZnSnO₃) for the Photocatalytic Degradation of Caffeine under UV Irradiation**
Anucha C. B., Altin İ., BACAŞIZ E., Stathopoulos V. N., POLAT İ., YAŞAR A., Yüksel Ö. F.
WATER, cilt.13, sa.9, 2021 (SCI-Expanded)
- XXVIII. **Processing CdS- and CdSe-containing window layers for CdTe solar cells**
Ciris A., Basol B. M., Atasoy Y., KARACA A., TOMAKİN M., Kucukomeroglu T., Bacaksiz E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.54, sa.21, 2021 (SCI-Expanded)
- XXIX. **Deposition of CdSeTe alloys using CdTe-CdSe mixed powder source material in a close-space sublimation process**
Çiriş A., Başol B. M., Atasoy Y., KARACA A., KÜÇÜKÖMEROĞLU T., TOMAKİN M., BACAŞIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.7, ss.9685-9693, 2021 (SCI-Expanded)
- XXX. **Phase transformation in Cu₂SnS₃ (CTS) thin films through pre-treatment in sulfur atmosphere**
Olğar M., Başol B., TOMAKİN M., BACAŞIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.8, ss.10018-10027, 2021 (SCI-Expanded)
- XXXI. **Hydrothermal preparation of B-TiO₂-graphene oxide ternary nanocomposite, characterization and photocatalytic degradation of bisphenol A under simulated solar irradiation**
ALTIN İ., Ma X., Boffa V., BACAŞIZ E., Magnacca G.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.123, 2021 (SCI-Expanded)
- XXXII. **Immobilized TiO₂/ZnO Sensitized Copper (II) Phthalocyanine Heterostructure for the Degradation of Ibuprofen under UV Irradiation**
BethelAnucha C., Altin I., BACAŞIZ E., DEĞİRMENCİOĞLU İ., KÜÇÜKÖMEROĞLU T., Yilmaz S., Stathopoulos V. N.
SEPARATIONS, cilt.8, sa.3, 2021 (SCI-Expanded)
- XXXIII. **Enhanced Photocatalytic Activity of CuWO₄ Doped TiO₂ Photocatalyst Towards Carbamazepine Removal under UV Irradiation**
Anucha C. B., ALTIN İ., BACAŞIZ E., KÜÇÜKÖMEROĞLU T., Belay M. H., Stathopoulos V. N.
SEPARATIONS, cilt.8, sa.3, 2021 (SCI-Expanded)
- XXXIV. **Synthesis and characterization of B/NaF and silicon phthalocyanine-modified TiO₂ and an evaluation of their photocatalytic removal of carbamazepine**
Anucha C. B., Altin I., Fabbri D., Değirmencioğlu İ., Calza P., Magnacca G., Stathopoulos V. N., Bacaksiz E.
Separations, cilt.7, sa.4, ss.1-20, 2020 (SCI-Expanded)
- XXXV. **Synthesis, Characterization, and Photocatalytic Evaluation of Manganese (III) Phthalocyanine Sensitized ZnWO₄ (ZnWO₄MnPc) for Bisphenol A Degradation under UV Irradiation**
Anucha C. B., Altin İ., Bıyıklıoğlu Z., Bacaksiz E., Polat İ., Stathopoulos V. N.
NANOMATERIALS, cilt.10, sa.11, 2020 (SCI-Expanded)
- XXXVI. **Structural, morphological, optical analyses of Ni-doped CdS thin films and their photovoltaic performance in hybrid solar cells**
Yilmaz S., Tomakin M., Unverdi A., Aydin A., POLAT İ., BACAŞIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.15, ss.12932-12942, 2020 (SCI-

Expanded)

- XXXVII. **Transparent and conductive CdS:Ca thin films for optoelectronic applications**
Yilmaz S., Polat İ., Tomakin M., Bacaksız E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.126, sa.7, 2020 (SCI-Expanded)
- XXXVIII. **Growth and characterization of Cu₂SnS₃ (CTS), Cu₂SnSe₃ (CTSe), and Cu₂Sn(S,Se)(3) (CTSSe) thin films using dip-coated Cu-Sn precursor**
BAYAZIT T., OLGAR M. A., KÜÇÜKÖMEROĞLU T., BACAKSIZ E., TOMAKIN M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.30, sa.13, ss.12612-12618, 2019 (SCI-Expanded)
- XXXIX. **Structural, optical and Schottky diode properties of Cu₂ZnSnS₄ thin films grown by two-stage method**
Atasoy Y., OLGAR M. A., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.30, sa.11, ss.10435-10442, 2019 (SCI-Expanded)
- XL. **Growth of Cu₂ZnSnS₄ (CZTS) thin films using short sulfurization periods**
OLGAR M. A., TOMAKIN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
MATERIALS RESEARCH EXPRESS, cilt.6, sa.5, 2019 (SCI-Expanded)
- XLI. **Improved optical transparency of calcium-doped ZnO thin films**
POLAT İ., Yilmaz S., Tomakin M., BACAKSIZ E.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, cilt.13, ss.326-332, 2019 (SCI-Expanded)
- XLII. **Alloying and phase transformation in CdS/CdSe bilayers annealed with or without CdCl₂**
CIRIS A., BASOL B. M., Yilmaz S., Atasoy Y., Tomakin M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.91, ss.90-96, 2019 (SCI-Expanded)
- XLIII. **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.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, cilt.34, sa.3, 2019 (SCI-Expanded)
- XLIV. **CZTS layers formed under sulfur-limited conditions at above atmospheric pressure**
OLGAR M. A., BACAKSIZ E., TOMAKIN M., KÜÇÜKÖMEROĞLU T., BASOL B. M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.90, ss.101-106, 2019 (SCI-Expanded)
- XLV. **Surface modification of CBD-grown CdS thin films for hybrid solar cell applications**
Yilmaz S., UNVERDI A., Tomakin M., POLAT İ., BACAKSIZ E.
OPTIK, cilt.185, ss.256-263, 2019 (SCI-Expanded)
- XLVI. **A research on growth and characterization of CdS:Eu thin films**
Yilmaz S., POLAT İ., Tomakin M., BACAKSIZ E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.125, sa.1, 2019 (SCI-Expanded)
- XLVII. **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.
Materials Science in Semiconductor Processing, cilt.88, ss.234-238, 2018 (SCI-Expanded)
- XLVIII. **Optical and electrical optimization of dysprosium-doped CdS thin films**
Yilmaz S., POLAT İ., Tomakin M., TORELI S. B., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.29, sa.17, ss.14774-14782, 2018 (SCI-Expanded)
- XLIX. **Sm-doped CdS thin films prepared by spray pyrolysis: a structural, optical, and electrical examination**
YILMAZ S., POLAT İ., TOMAKIN M., KÜÇÜKÖMEROĞLU T., TORELI S. B., BACAKSIZ E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.124, sa.7, 2018 (SCI-Expanded)
- L. **An evaluation of structural, optical and electrical characteristics of Ag/ZnO rods/SnO₂/In-Ga Schottky diode**
KÜÇÜKÖMEROĞLU T., YILMAZ S., POLAT İ., BACAKSIZ E.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.29, sa.12, ss.10054-10060, 2018 (SCI-Expanded)

- LI. **Electrodeposition of Si-DLC nanocomposite film and its electronic application**
Basman N., Uzun R., Gocer E., BACAŞIZ E., Kolemen U.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, cilt.24, sa.5, ss.2287-2294, 2018 (SCI-Expanded)
- LII. **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., BACAŞIZ E.
THIN SOLID FILMS, cilt.649, ss.30-37, 2018 (SCI-Expanded)
- LIII. **The Investigation of Current-Conduction Mechanisms of Te/NaF:CdS/SnO₂ Structure in Wide Temperature Range of 80-400 K**
Sevgili O., YILMAZ Ş., Altımdal S., BACAŞIZ E., Bilkan C.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, cilt.87, sa.3, ss.409-417, 2017 (SCI-Expanded)
- LIV. **Synthesis and characterization of ZnO micro-rods and temperature-dependent characterizations of heterojunction of ZnO microrods/CdTe and ZnO microrods/ZnTe structures**
OLGAR M. A., Atasoy Y., BACAŞIZ E., AYDOĞAN Ş.
SENSORS AND ACTUATORS A-PHYSICAL, cilt.261, ss.56-65, 2017 (SCI-Expanded)
- LV. **Interpretation of barrier height inhomogeneities in Au/In₂S₃/SnO₂/(In-Ga) structures at low temperatures**
TECİMER H., Altımdal S., Aksu S., Atasoy Y., BACAŞIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.28, sa.10, ss.7501-7508, 2017 (SCI-Expanded)
- LVI. **Enhancement in the optical and electrical properties of CdS thin films through Ga and K co-doping**
Yılmaz S., TORELİ S. B., POLAT İ., OLGAR M. A., Tomakin M., BACAŞIZ E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.60, ss.45-52, 2017 (SCI-Expanded)
- LVII. **Effect of heat treating metallic constituents on the properties of Cu₂ZnSnSe₄ thin films formed by a two-stage process**
OLGAR M. A., Basol B. M., Atasoy Y., Tomakin M., Aygun G., Ozyuzer L., BACAŞIZ E.
THIN SOLID FILMS, cilt.624, ss.167-174, 2017 (SCI-Expanded)
- LVIII. **Physical properties of CdS:Ga thin films synthesized by spray pyrolysis technique**
Yılmaz S., POLAT İ., OLGAR M. A., Tomakin M., TORELİ S. B., BACAŞIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.28, sa.4, ss.3191-3199, 2017 (SCI-Expanded)
- LIX. **Influence of copper composition and reaction temperature on the properties of CZTSe thin films**
Olgar M. A., Atasoy Y., Basol B. M., Tomakin M., Aygun G., Ozyuzer L., BACAŞIZ E.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.682, ss.610-617, 2016 (SCI-Expanded)
- LX. **Cu(In,Ga)(Se,Te)(2) pentenary thin films formed by reaction of precursor layers**
Atasoy Y., BASOL B. M., POLAT İ., Tomakin M., PARLAK M., BACAŞIZ E.
THIN SOLID FILMS, cilt.592, ss.189-194, 2015 (SCI-Expanded)
- LXI. **Microstructure And Tribological Properties Of Ti Borided By Electron Beam Evaporation Technique**
Kara G., Pürçek G., Bacaksız E., Atasoy Y.
Journal Of The Balkan Tribological Association, cilt.21, sa.1, ss.24-37, 2015 (SCI-Expanded)
- LXII. **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.
MATERIALS LETTERS, cilt.142, ss.273-276, 2015 (SCI-Expanded)
- LXIII. **MICROSTRUCTURE AND TRIBOLOGICAL PROPERTIES OF Ti BORIDED BY ELECTRON BEAM EVAPORATION TECHNIQUE**
KARA G., PÜRÇEK G., ATASOY Y., BACAŞIZ E.
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, cilt.21, sa.1, ss.24-37, 2015 (SCI-Expanded)

- LXIV. **The influence of Cu-doping on structural, optical and photocatalytic properties of ZnO nanorods**
Polat İ., Yilmaz S., Altin İ., BACAŞIZ E., Sökmen M.
MATERIALS CHEMISTRY AND PHYSICS, cilt.148, sa.3, ss.528-532, 2014 (SCI-Expanded)
- LXV. **Synthesis and fabrication of Mg-doped ZnO-based dye-synthesized solar cells**
POLAT İ., Yilmaz S., BACAŞIZ E., Atasoy Y., Tomakin M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.25, sa.7, ss.3173-3178, 2014 (SCI-Expanded)
- LXVI. **Synthesis and characterization of Mn-doped ZnO nanorods grown in an ordered periodic honeycomb pattern using nanosphere lithography**
Yilmaz S., Garry S., McGlynn E., BACAŞIZ E.
CERAMICS INTERNATIONAL, cilt.40, sa.6, ss.7753-7759, 2014 (SCI-Expanded)
- LXVII. **Optical and Structural Properties of Nanostructured CuIn_{0.7}Ga_{0.3}(Se(1-x)Tex)₂ Chalcopyrite Thin Films-Effect of Stoichiometry and Annealing**
Fiat S., POLAT İ., BACAŞIZ E., ÇANKAYA G., Koralli P., Manolakos D. E., Kompitsas M.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, cilt.14, sa.7, ss.5002-5010, 2014 (SCI-Expanded)
- LXVIII. **Defect-mediated ferromagnetism in ZnO:Mn nanorods**
Yilmaz S., McGlynn E., BACAŞIZ E., Bogan J.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.115, sa.1, ss.313-321, 2014 (SCI-Expanded)
- LXIX. **Structural, morphological, optical and electrical evolution of spray deposited ZnO rods co-doped with indium and sulphur atoms**
Yilmaz S., POLAT İ., Atasoy Y., BACAŞIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.25, sa.4, ss.1810-1816, 2014 (SCI-Expanded)
- LXX. **Temperature and tellurium (Te) dependence of electrical characterization and surface properties for a chalcopyrite structured schottky barrier diode**
Fiat S., BACAŞIZ E., Kompitsas M., ÇANKAYA G.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.585, ss.178-184, 2014 (SCI-Expanded)
- LXXI. **The influence of stoichiometry and annealing temperature on the properties of CuIn_{0.7}Ga_{0.3}Se₂ and CuIn_{0.7}Ga_{0.3}Te₂ thin films**
Fiat S., Koralli P., BACAŞIZ E., Giannakopoulos K. P., Kompitsas M., Manolakos D. E., ÇANKAYA G.
THIN SOLID FILMS, cilt.545, ss.64-70, 2013 (SCI-Expanded)
- LXXII. **The effect of metal work function on the barrier height of metal/CdS/SnO₂/In-Ga structures**
Tascioglu I., Altindal S., POLAT İ., BACAŞIZ E.
CURRENT APPLIED PHYSICS, cilt.13, sa.7, ss.1306-1310, 2013 (SCI-Expanded)
- LXXIII. **The influence of annealing temperature and tellurium (Te) on electrical and dielectrical properties of Al/p-CIGSeTe/Mo Schottky diodes**
Fiat S., POLAT İ., BACAŞIZ E., Kompitsas M., ÇANKAYA G.
CURRENT APPLIED PHYSICS, cilt.13, sa.6, ss.1112-1118, 2013 (SCI-Expanded)
- LXXIV. **Defect-induced room temperature ferromagnetism in B-doped ZnO**
YILMAZ Ş., Nisar J., Atasoy Y., McGlynn E., Ahuja R., PARLAK M., BACAŞIZ E.
CERAMICS INTERNATIONAL, cilt.39, sa.4, ss.4609-4617, 2013 (SCI-Expanded)
- LXXV. **Schottky diode properties of CuInSe₂ films prepared by a two-step growth technique**
Tecimer H., Aksu S., Uslu H., Atasoy Y., BACAŞIZ E., Altindal S.
SENSORS AND ACTUATORS A-PHYSICAL, cilt.185, ss.73-81, 2012 (SCI-Expanded)
- LXXVI. **Fabrication and structural, electrical characterization of i-ZnO/n-ZnO nanorod homojunctions**
YILMAZ Ş., BACAŞIZ E., POLAT İ., Atasoy Y.
CURRENT APPLIED PHYSICS, cilt.12, sa.5, ss.1326-1333, 2012 (SCI-Expanded)
- LXXVII. **Structural, optical and magnetic properties of Zn_{1-x}Mn_xO micro-rod arrays synthesized by spray pyrolysis method**
YILMAZ Ş., BACAŞIZ E., McGlynn E., POLAT İ., ÖZCAN Ş.
THIN SOLID FILMS, cilt.520, sa.16, ss.5172-5178, 2012 (SCI-Expanded)
- LXXVIII. **Structural and electrical characterization of rectifying behavior in n-type/intrinsic ZnO-based homojunctions**

Yilmaz S., POLAT İ., Altındal S., BACAŞIZ E.

MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, cilt.177, sa.8, ss.588-593, 2012 (SCI-Expanded)

- LXXXIX. **Influence of the annealing atmosphere on structural, optical and magnetic properties of Co-doped ZnO microrods**
Aksu S., BACAŞIZ E., YILMAZ Ş., POLAT İ., Altunbas M., Turksoy M., Topkaya R., ÖZDOĞAN K.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.44, ss.1244-1249, 2012 (SCI-Expanded)
- LXXX. **ZnO and ZnS microrods coated on glass and photocatalytic activity**
Altın İ., POLAT İ., BACAŞIZ E., Sokmen M.
APPLIED SURFACE SCIENCE, cilt.258, sa.11, ss.4861-4865, 2012 (SCI-Expanded)
- LXXXI. **A short literature survey on iron and cobalt ion doped TiO₂ thin films and photocatalytic activity of these films against fungi**
Tatlıdil İ., BACAŞIZ E., BURUK C. K., Breen C., Sokmen M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.517, ss.80-86, 2012 (SCI-Expanded)
- LXXXII. **Structural, optical and magnetic properties of Ni-doped ZnO micro-rods grown by the spray pyrolysis method**
YILMAZ Ş., McGlynn E., BACAŞIZ E., Cullen J., Chellappan R. K.
CHEMICAL PHYSICS LETTERS, ss.72-76, 2012 (SCI-Expanded)
- LXXXIII. **Current transport mechanism in CdS thin films prepared by vacuum evaporation method at substrate temperatures below room temperature**
TOMAKİN M., Altunbas M., BACAŞIZ E., Celik S.
THIN SOLID FILMS, cilt.520, sa.7, ss.2532-2536, 2012 (SCI-Expanded)
- LXXXIV. **Effects of Cu diffusion-doping on structural, optical, and magnetic properties of ZnO nanorod arrays grown by vapor phase transport method**
Yilmaz S., McGlynn E., BACAŞIZ E., ÖZCAN Ş., Byrne D., Henry M. O., Chellappan R. K.
JOURNAL OF APPLIED PHYSICS, cilt.111, sa.1, 2012 (SCI-Expanded)
- LXXXV. **The influence of diffusion temperature on the structural, optical, and magnetic properties of nickel-doped zinc oxysulfide thin films**
POLAT İ., Aksu S., Altunbas M., BACAŞIZ E.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, cilt.209, sa.1, ss.160-166, 2012 (SCI-Expanded)
- LXXXVI. **The influence of substrate temperature on electrical properties of Cu/CdS/SnO₂ Schottky diode**
TOMAKİN M., Altunbas M., BACAŞIZ E.
PHYSICA B-CONDENSED MATTER, cilt.406, sa.23, ss.4355-4360, 2011 (SCI-Expanded)
- LXXXVII. **Structural, optical and magnetic properties of Mn diffusion-doped CdS thin films prepared by vacuum evaporation**
Aksu S., BACAŞIZ E., PARLAK M., YILMAZ Ş., POLAT İ., Altunbas M., Turksoy M., Topkaya R., ÖZDOĞAN K.
MATERIALS CHEMISTRY AND PHYSICS, cilt.130, ss.340-345, 2011 (SCI-Expanded)
- LXXXVIII. **Microstructural, optical and magnetic properties of cobalt-doped zinc oxysulfide thin films**
POLAT İ., Aksu S., Altunbas M., BACAŞIZ E.
MATERIALS CHEMISTRY AND PHYSICS, cilt.130, ss.800-805, 2011 (SCI-Expanded)
- LXXXIX. **The influence of diffusion temperature on the structural, optical and magnetic properties of manganese-doped zinc oxysulfide thin films**
POLAT İ., Aksu S., Altunbas M., YILMAZ Ş., BACAŞIZ E.
JOURNAL OF SOLID STATE CHEMISTRY, cilt.184, sa.10, ss.2683-2689, 2011 (SCI-Expanded)
- XC. **Degradation of Candida albicans on TiO₂ and Ag-TiO₂ thin films prepared by sol-gel and nanosuspensions**
Tatlıdil İ., Sokmen M., Breen C., Clegg F., Buruk C. K., BACAŞIZ E.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, cilt.60, sa.1, ss.23-32, 2011 (SCI-Expanded)
- XCI. **Structural, optical and magnetic properties of Cr doped ZnO microrods prepared by spray pyrolysis method**

- YILMAZ Ş., PARLAK M., ÖZCAN Ş., Altunbas M., McGlynn E., BACAŞIZ E.
APPLIED SURFACE SCIENCE, cilt.257, sa.22, ss.9293-9298, 2011 (SCI-Expanded)
- XCII. **Preparation and characterization of new window material CdS thin films at low substrate temperature (< 300 K) with vacuum deposition**
TOMAKİN M., Altunbas M., BACAŞIZ E., POLAT İ.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.14, sa.2, ss.120-127, 2011 (SCI-Expanded)
- XCIII. **On the mechanism of current-transport in Cu/CdS/SnO₂/In-Ga structures**
Uslu H., Altındal S., POLAT İ., Bayrak H., BACAŞIZ E.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.509, sa.18, ss.5555-5561, 2011 (SCI-Expanded)
- XCIV. **Fabrication of p-type CuSCN/n-type micro-structured ZnO heterojunction structures**
BACAŞIZ E., AKSU S., Cankaya G., YILMAZ Ş., POLAT İ., KÜÇÜKÖMEROĞLU T., Varilci A.
THIN SOLID FILMS, cilt.519, sa.11, ss.3679-3685, 2011 (SCI-Expanded)
- XCV. **Structural, optical and electrical properties of Al-doped ZnO microrods prepared by spray pyrolysis**
BACAŞIZ E., Aksu S., Yilmaz S., PARLAK M., Altunbas M.
THIN SOLID FILMS, cilt.518, sa.15, ss.4076-4080, 2010 (SCI-Expanded)
- XCVI. **Structural and electrical characterization of ZnO-based homojunctions**
BACAŞIZ E., Cankaya G., POLAT İ., YILMAZ Ş., DURAN C., Altunbas M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.496, ss.560-565, 2010 (SCI-Expanded)
- XCVII. **The influence of substrate temperature on the morphology, optical and electrical properties of thermal-evaporated ZnTe Thin Films**
BACAŞIZ E., Aksu S., Ozer N., TOMAKİN M., ÖZÇELİK A. E.
APPLIED SURFACE SCIENCE, cilt.256, sa.5, ss.1566-1572, 2009 (SCI-Expanded)
- XCVIII. **The influence of substrate temperature on the morphology, optical and electrical properties of thermal-evaporated ZnSe thin films**
BACAŞIZ E., Aksu S., POLAT İ., YILMAZ Ş., Altunbas M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.487, ss.280-285, 2009 (SCI-Expanded)
- XCIX. **Effects of annealing temperature on the structural and optical properties of ZnO hexagonal pyramids**
BACAŞIZ E., YILMAZ Ş., PARLAK M., Varilci A., Altunbas M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.478, ss.367-370, 2009 (SCI-Expanded)
- C. **Structural characterization of Zn_{1-x}Cd_xO (0 ≤ x ≤ 0.20) microrods grown by spray pyrolysis**
BACAŞIZ E., Altunbas M., Ozcelik S., Oltulu O., TOMAKİN M., YILMAZ Ş.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.12, sa.3, ss.118-121, 2009 (SCI-Expanded)
- CI. **Nickel diffusion in polycrystalline CuInSe₂ thin films with a < 112 > fiber texture**
Celik A., ÇEVİK U., BACAŞIZ E., CELİK N.
THIN SOLID FILMS, cilt.517, sa.9, ss.2851-2854, 2009 (SCI-Expanded)
- CII. **The effects of zinc nitrate, zinc acetate and zinc chloride precursors on investigation of structural and optical properties of ZnO thin films**
BACAŞIZ E., PARLAK M., TOMAKİN M., Özçelik A., Karakiz M., Altunbaş M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.466, ss.447-450, 2008 (SCI-Expanded)
- CIII. **Structural, optical and magnetic properties of Cd(1-x)Co_xS thin films prepared by spray pyrolysis**
BACAŞIZ E., TOMAKİN M., Altunbas M., PARLAK M., Colakoglu T.
PHYSICA B-CONDENSED MATTER, cilt.403, ss.3740-3745, 2008 (SCI-Expanded)
- CIV. **Effective atomic numbers and electron densities for CdSe and CdTe semiconductors**
ÇEVİK U., BACAŞIZ E., DAMLA N., CELİK A.
RADIATION MEASUREMENTS, cilt.43, sa.8, ss.1437-1442, 2008 (SCI-Expanded)
- CV. **Structural, optical and magnetic properties of Zn_{1-x}Co_xO thin films prepared by spray pyrolysis**
BACAŞIZ E., Aksu S., Basol B. M., Altunbaş M., PARLAK M., Yamnaz E.
THIN SOLID FILMS, cilt.516, sa.21, ss.7899-7902, 2008 (SCI-Expanded)
- CVI. **Effective atomic numbers and electron densities of CuGaSe₂ semiconductor in the energy range 6-511 keV**

- CELİK A., ÇEVİK U., BACAKSIZ E., CELİK N.
X-RAY SPECTROMETRY, cilt.37, sa.5, ss.490-494, 2008 (SCI-Expanded)
- CVII. **Structural, magnetic and optical properties of Co-diffused CdTe thin films**
Alver U., BACAKSIZ E., Yanmaz E.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.456, ss.6-9, 2008 (SCI-Expanded)
- CVIII. **Influence of fluorine doping on structural, electrical and optical properties of spray pyrolysis ZnS films**
KÜÇÜKÖMEROĞLU T., BACAKSIZ E., Terzioglu C., Varilci A.
THIN SOLID FILMS, cilt.516, sa.10, ss.2913-2916, 2008 (SCI-Expanded)
- CIX. **Structure and nanomechanical properties of CdTe thin films**
PÜRÇEK G., BACAKSIZ E., Miskioglu I.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, cilt.198, ss.202-206, 2008 (SCI-Expanded)
- CX. **Influence of Fluorine Doping on the structural, electrical and Optical Properties of Spray Pyrolysis ZnS thin Films Properties**
Küçükömeroğlu T., BACAKSIZ E., Terzioglu C., Varilci A.
THIN SOLID FILMS, cilt.516, ss.2913-2916, 2008 (SCI-Expanded)
- CXI. **Temperature dependence of ZnO rods produced by ultrasonic spray pyrolysis method**
Alver U., KILINC T., BACAKSIZ E., NEZIR S.
MATERIALS CHEMISTRY AND PHYSICS, cilt.106, ss.227-230, 2007 (SCI-Expanded)
- CXII. **Effects of CdCl₂ treatment on properties of CdTe thin films grown by evaporation at low substrate temperatures**
Bacaksiz E., Altunbaş M., Yfniiaz S., Tornakin M., Parlak M.
CRYSTAL RESEARCH AND TECHNOLOGY, cilt.42, sa.9, ss.890-894, 2007 (SCI-Expanded)
- CXIII. **Temperature of ZnO rods produced by ultrasonic spray pyrolysis method**
Alver U., Kılınç T., BACAKSIZ E., Nezir S.
MATERIALS CHEMISTRY AND PHYSICS, cilt.106, ss.227-230, 2007 (SCI-Expanded)
- CXIV. **Ag-Diffusion in ZnS Thin Films Prepared by Spray Pyrolysis**
BACAKSIZ E., Gorur O., Tomakin M., Yanmaz E., Altunbaş M.
MATERIALS LETTERS, cilt.61, ss.5239-5242, 2007 (SCI-Expanded)
- CXV. **Structure and optical properties of Zn_{1-x}Fe_xO thin films prepared by ultrasonic spray pyrolysis**
Alver U., Kılınç T., Bacaksiz E., Nezir S.
MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, cilt.138, sa.1, ss.74-77, 2007 (SCI-Expanded)
- CXVI. **Synthesis and characterization of spray pyrolysis Zinc Oxide microrods**
ALVER U., KILINC T., BACAKSIZ E., Kucukomeroglu T., NEZIR S., MUTLU I. H., ASLAN F.
THIN SOLID FILMS, cilt.515, ss.3448-3451, 2007 (SCI-Expanded)
- CXVII. **Effects of substrate temperature and post-deposition anneal on properties of evaporated cadmium telluride films**
Bacaksiz E., Basol B. M., Altunbaş M., Novruzov V., Yanmaz E., Nezir S.
THIN SOLID FILMS, cilt.515, sa.5, ss.3079-3084, 2007 (SCI-Expanded)
- CXVIII. **K shell fluorescence yield of Cd and Zn in Cd_{1-x}Zn_xS thin films**
BACAKSIZ E., Cevik U.
CHEMICAL PHYSICS LETTERS, cilt.427, ss.132-136, 2006 (SCI-Expanded)
- CXIX. **Effects of Substrate Temperature and Post-Deposited Anneal on Properties of Evaporated CdSe Films**
BACAKSIZ E., Başol B., Altunbaş M., Tomakin M., Yılmaz S., Abay B.
Phys. Status Solidi B, cilt.244, ss.497-504, 2006 (SCI-Expanded)
- CXX. **Determination of attenuation coefficients, thicknesses and effective atomic numbers for CuInSe₂ semiconductor**
Cevik U., Baltas H., Celik A., Bacaksiz E.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH

- MATERIALS AND ATOMS, cilt.247, sa.2, ss.173-179, 2006 (SCI-Expanded)
- CXXI. **Structural,, electrical and optical properties of Cd_{1-x}Zn_xO thin films and alloying effects on K beta/K alpha intensity ratios**
BACAŞIZ E., BOLAT S., Cevik U., DOĞAN O., ABAY B.
X-RAY SPECTROMETRY, cilt.35, sa.3, ss.165-168, 2006 (SCI-Expanded)
- CXXII. **Alloying effects on K²/K¹ intensity ratios and electrical properties in Cd_{1-x}Zn_xS semi-conductor alloys**
BACAŞIZ E., Doğan O.
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, cilt.95, ss.133-139, 2005 (SCI-Expanded)
- CXXIII. **Copper diffusion in ZnS thin films**
BACAŞIZ E., DZHAFAROV T., NOVRUZOV V., OZTURK K., TOMAKIN M., Kucukomeroglu T., ALTUNBAS M., YANMAZ E., ABAY B.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, cilt.201, sa.13, ss.2948-2952, 2004 (SCI-Expanded)
- CXXIV. **Measurement of diffusion coefficients of Ag in YBa₂Cu₃O₇ by the EDXRF technique**
DOĞAN O., ERTUGRUL M., Cevik U., BACAŞIZ E., TIRASOĞLU E., KOBYA A. İ., ERDOĞAN H.
X-RAY SPECTROMETRY, cilt.32, sa.5, ss.363-366, 2003 (SCI-Expanded)
- CXXV. **Light-assisted deposition of CdS thin films**
BACAŞIZ E., Novruzov V., Karal H., Yanmaz E., Altunbaş M., Kopya A.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.34, sa.21, ss.3109-3112, 2001 (SCI-Expanded)
- CXXVI. **Molybdenum diffusion in CuInSe₂ thin films**
Dzhafarov T., Sadıgov M., Cıngı E., Bacaksiz E., Çalıřkan M.
JOURNAL OF MATERIALS SCIENCE LETTERS, cilt.19, sa.17, ss.1521-1524, 2000 (SCI-Expanded)
- CXXVII. **Molybdenum diffusion in CuInSe₂ thin films**
Dzhafarov T., Sadıgov M., BACAŞIZ E., Cıngı E., Çalıřkan M.
Jpn.J Appl.Phys.,Supl, cilt.39, ss.194-197, 2000 (SCI-Expanded)
- CXXVIII. **Measurement of diffusion coefficients and the effect of the diffusion on Tc YBa₂Cu₃O₇ by the EDXRF technique**
Doğan O., Ertugrul M., BACAŞIZ E.
Balkan Physics Letters, cilt.88, ss.88-92, 2000 (SCI-Expanded)
- CXXIX. **Formation of p-type CdS thin films by laser-stimulated copper diffusion**
Dzhafarov T., Altunbaş M., Kopya A., Novruzov V., Bacaksiz E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.32, sa.24, 1999 (SCI-Expanded)
- CXXX. **Production of CuInSe₂ thin films by a sequential processes of evaporations and selenization**
Sadıgov M., Özkan M., Bacaksiz E., Altunbaş M., Kopya A.
JOURNAL OF MATERIALS SCIENCE, cilt.34, sa.18, ss.4579-4584, 1999 (SCI-Expanded)
- CXXXI. **Effect of copper diffusion on photovoltaic characteristics of CuGaSe₂-GaAs cells**
Dzhafarov T., Sadıgov M., Bacaksiz E., Ören D., Karabay I.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.52, ss.135-140, 1998 (SCI-Expanded)
- CXXXII. **Levels of cesium radionuclides in lichens and mosses from the province of Ordu in the Eastern Black Sea area of Turkey**
SAKA A., Cevik U., BACAŞIZ E., KOPYA A., TIRASOĞLU E.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, cilt.222, ss.87-92, 1997 (SCI-Expanded)

Diđer Dergilerde Yayınlanan Makaleler

- I. **ZINC SULFIDE ANTI-REFLECTIVE THIN FILM COATING FOR GERMANIUM OPTICAL WINDOWS**
KARACA A., SAĐLAM S., BACAŞIZ E., ÖZÇELİK S.
Eurasian Journal of Science Engineering and Technology, cilt.3, sa.1, ss.36-45, 2022 (Hakemli Dergi)
- II. **Titanium dioxide (TiO₂)-based photocatalyst materials activity enhancement for**

contaminants of emerging concern (CECs) degradation: In the light of modification strategies

Anucha C. B., Altın İ., Bacaksız E., Stathopoulos V. N.

CHEMICAL ENGINEERING JOURNAL ADVANCES, cilt.10, 2022 (ESCI)

- III. **Improved performance of CdS powder-based hybrid solar cells through surface modification**
Ünverdi A., Yılmaz S., Tomakin M., Polat İ., Bacaksız E.
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.11, sa.4, ss.1315-1323, 2021 (Hakemli Dergi)
- IV. **INVESTIGATION OF THE EFFECT OF HEATING RAMPING RATE ON Cu(In, Ga)Te₂ THIN FILMS**
Erkan S., Atasoy Y., Çiriş A., Bacaksız E.
Eurasian Journal of Science Engineering and Technology, cilt.2, sa.1, ss.10-17, 2021 (Hakemli Dergi)
- V. **Exploration of impact of Cr-doping on physical and optical properties of CdS thin films in hybrid photovoltaic cells**
Bacaksız E., Yılmaz S.
Turkish Journal of Materials, cilt.5, sa.1, ss.1-9, 2020 (Hakemli Dergi)
- VI. **Enhanced efficiency of CdS/P3HT hybrid solar cells via interfacial modification**
Yılmaz S., POLAT İ., Tomakin M., UNVERDI A., BACAKSIZ E.
TURKISH JOURNAL OF PHYSICS, cilt.43, sa.1, ss.116-125, 2019 (ESCI)
- VII. **Role of Mg doping in the structural, optical, and electrical characteristics of ZnO-based DSSCs**
POLAT İ., Yılmaz S., Tomakin M., BACAKSIZ E.
TURKISH JOURNAL OF PHYSICS, cilt.41, sa.2, ss.160-170, 2017 (ESCI)
- VIII. **Optical, Structural and Morphological Characterization of CuIn_{0.7}Ga_{0.3}(Se_{0.6}Te_{0.4})₂ Thin Films Under Different Annealing Temperatures**
Fiat S., BACAKSIZ E., Kompitsas M., Cankaya G.
C.B.Ü, Fen Bilimler, Fen Bilimler, cilt.9, ss.9-16, 2013 (Hakemli Dergi)
- IX. **Effect of CdCl₂/annealing on the crystalline transformation of CdTe thin films grown by evaporation at a low substrate temperat**
POLAT İ., Yılmaz S., BACAKSIZ E., Altunbaş M., Tomakin M.
Turk J Phys, cilt.35, ss.1-6, 2011 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **ZnO and ZnS microrods coated on glass and photocataytic activity**
ALTIN İ., POLAT İ., BACAKSIZ E., SÖKMEN M.
7th Nanoscience and Nanotechnology Conference, Sabancı Üniversitesi, 27 June-01 July 2011, İstanbul, Türkiye, ss.1
- II. **TiO₂ Nano-Particle Immobilized polymeric material and photocatalytic activity**
SÖKMEN M., Breen C., ALTIN İ., BACAKSIZ E., BURUK C. K.
International Conference on Semiconductor Photochemistry, 4-11 April 2010, Birleşik Krallık, ss.1
- III. **Synthesis of TiO₂ coated self-cleaning materials**
SÖKMEN M., ALTIN İ., Breen C., BACAKSIZ E., BURUK C. K.
7th Nanoscience and Nanotechnology Conference, Sabancı Üniversitesi, 27 June-01 July 2011, İstanbul, Türkiye, ss.1
- IV. **Structural, Optical and Photocatalytic Properties of Cu-ZnO and ZnO Nanorods**
ALTIN İ., Yılmaz S., POLAT İ., BACAKSIZ E., SÖKMEN M.
10th Nanoscience and Nanotechnology Conference, 17 June-21 June 2014, Yeditepe Üniversitesi, İstanbul, Türkiye, ss.1
- V. **Titanyum Dioksit İnce film kaplı kendi kendini temizleyen malzemeler**
SÖKMEN M., BACAKSIZ E., BURUK C. K., ALTIN İ., Sivlim T., Akkan Ş.
XXIII. Ulusal Kimya Kongresi, Cumhuriyet Üniversitesi, 16-20 Haziran 2009, Sivas, Türkiye, ss.1
- VI. **Removal of Candida albicans over TiO₂ suspensions and thin film coated surface**
ALTIN İ., Breen C., BURUK C. K., BACAKSIZ E., Sivlim T., SÖKMEN M.

International Conference on Semiconductor Photochemistry, SP-3, 4-11 April 2010, Birleşik Krallık, ss.10

- VII. **Kendi Kendini Temizleme Özelliğine Sahip Titanyum Dioksit İnce Filmlerinin Çeşitli Materyaller Üzerine Kaplanması**
SÖKMEN M., BURUK C. K., ALTIN İ., BACAKSIZ E.
IOPT's İleri Oksidasyon Teknolojileri Çalıştayı, Boğaziçi Üniversitesi, 7-8 Kasım 2008, İstanbul, Türkiye, ss.1
- VIII. **Pozitron Yok Olma Yöntemi ile Bi(Pb)-Sr-Ca-Cu-O ve Y-Ba-Cu-O Süperiletkenlerinin incelenmesi**
SAKA A. Z., YAMAK S., KOPYA A. İ., BACAKSIZ E., CEVIK U.
Turkish Physical Society XVI. International Physics Congress, İzmir, Türkiye, ss.7
- IX. **Characteristics of CuGaSez-GaAs Solar Gells**
SAKA A. Z., DZHAFAROV T. D., SADIĞOV M. S., KOPYA A. İ., BACAKSIZ E.
Turkish Physical Society XVI. International Physics Congress, İzmir, Türkiye, ss.4
- X. **Modulation Properties of Cu₂Sn(S_xSe_{1-x})₃ Thin Films Through Various Reaction Temperatures Using Rapid Thermal Processing**
BAYAZIT T., OLĞAR M. A., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
6th International conference on materials science and nanotechnology for next generation (MSNG2019), 16 - 18 Ekim 2019, ss.44
- XI. **Modulation Properties of Cu₂Sn(S_xSe_{1-x})₃ Thin Films Through Various Reaction Temperatures Using Rapid Thermal Processing**
BAYAZIT T., OLĞAR M. A., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
6th International conference on materials science and nanotechnology for next generation (MSNG2019), 16 - 18 Ekim 2019, ss.44
- XII. **Effects of Acceptor Dopants (Li, N, B) on ZnO Thin Film Prepared by Spray Pyrolysis**
BAYAZIT T., OLĞAR M. A., GÜNER S. B., TOMAKİN M., BACAKSIZ E.
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), 16 - 18 Ekim 2019, ss.197
- XIII. **Development of ZnS Antireflective Thin Film Coating for MWIR Region**
KARACA A., EFKERE H., SAĞLAM S., BACAKSIZ E., ÖZÇELİK S.
International Conference on Chemical Energy and Semiconductor Photochemistry, 4 - 06 Eylül 2019
- XIV. **Ceramic Paste Preparation and Suspension Wash Coats Formulation for Disc Shaped γ -Al₂O₃ Substrate**
BETHEL C. A., ALTIN İ., PANDIS P. K., STATHOPOULOS V. N., GEORGIPOULOS I., TATOUDI Z., ARGIRUSIS C., BACAKSIZ E.
International Conference on Chemical Energy and Semiconductor Photochemistry (CESCOP-2019), Trabzon, Türkiye, 4 - 06 Eylül 2019, ss.1
- XV. **Development of Photocatalytic TiO₂ Washcoats Over Porous γ -Al₂O₃ Substrates**
BETHEL C. A., ALTIN İ., PANDIS P. K., STATHOPOULOS V. N., GEORGIPOULOS I., TATOUDI Z., ARGIRUSIS C., BACAKSIZ E.
International Conference on Chemical Energy and Semiconductor Photochemistry (CESCOP-2019), Trabzon, Türkiye, 4 - 06 Eylül 2019, ss.1
- XVI. **Investigation of Structural Properties of Cu(In,Ga)(Se_{1-y}Te_y)₂ Thin Films Deposited on Flexible Substrate**
ATASOY Y., OLĞAR M. A., BAŞOL B. M., TOMAKİN M., ÇİRİŞ A., BACAKSIZ E.
International Turkic World Congress on Science and Engineering, Niğde, Türkiye, 17 - 18 Haziran 2019, ss.114
- XVII. **Synthesis, characterization, and photocatalytic tests of novel photocatalysts**
BETHEL C. A., ALTIN İ., FABBRI D., DEĞİRMENCİOĞLU İ., CALZA P., BACAKSIZ E., STATHOPOULOS V.
17th International Conference on Chemistry and the Environment (ICCE 2019), Thessaloniki, Yunanistan, 16 - 20 Haziran 2019, ss.1
- XVIII. **EFFECT OF SULFURIZATION TEMPERATURE ON STRUCTURAL PROPERTIES OF Cu₂SnS₃ THIN FILMS**
BAYAZIT T., TOMAKİN M., OLĞAR M. A., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
KARADENİZ 1. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMA KONGRESİ, Giresun, Türkiye, 15 - 17 Mart 2019, ss.164-165
- XIX. **Comparative Study on the Impact of Stacking Order of Precursor Layer Films by Exposing the Precursors Layers to the Sulfur Vapor at Low Temperature**

OLĞAR M. A., SEYHAN A., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.

5th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG-2018), 4 - 06 Ekim 2018, ss.83-87

- XX. **Influence of Cu and Sn Alloy on the Properties of Cu₂ZnSnS₄ (CZTS) Based Thin Film Solar Cells**
OLĞAR M. A., Klaer J., Mainz R., ÖZYÜZER L., BACAKSIZ E., Unold T.
Photovoltaic Conference (PVCON2018), Ankara, Türkiye, 4 - 06 Temmuz 2018
- XXI. **Preparation and characterization of CdS:Ga and CdS:(Ga, K) thin films via spray pyrolysis**
TÖRELİ S. B., YILMAZ S., POLAT İ., TOMAKİN M., BACAKSIZ E.
2nd International Mediterranean Science and Engineering Congress, 25 - 27 Ekim 2017
- XXII. **Thickness effects of Nb₂O₅ blocking layer on the performance of ZnO-based DSSCs**
POLAT İ., YILMAZ S., KÜÇÜKÖMEROĞLU T., TOMAKİN M., BACAKSIZ E.
2nd International Mediterranean Science and Engineering Congress, 2017 Adana Turkey, Adana, Türkiye, 25 - 27 Ekim 2017, ss.166-170
- XXIII. **Thickness effects of Nb₂O₅ blocking layer on the performance of ZnO-based DSSCs**
Polat İ., Yılmaz S., Küçükömeroğlu T., Tomakin M., Bacaksız E.
2nd International Mediterranean SCIENCE AND ENGINEERING CONGRESS, Adana, Türkiye, 25 - 27 Ekim 2017, ss.345-350
- XXIV. **Preparation and characterization of CdS:Ga and CdS:(Ga, K) thin films via spray pyrolysis**
Törelİ S. B., Yılmaz S., Polat İ., Tomakin M., Bacaksız E.
2nd International Mediterranean SCIENCE AND ENGINEERING CONGRESS, Adana, Türkiye, 25 - 27 Ekim 2017, ss.420
- XXV. **ELECTRICAL CHARACTERIZATION OF SCHOTTKY MISDIODES BASED ON DLC FILMS PREPARED WITH DIFFERENT CONDITIONS**
BAŞMAN N., UZUN R., FİAT VAROL S., BACAKSIZ E., ALKAN C., UZUN O.
3rd INTERNATIONAL CONFERENCE ON SCIENCE, ECOLOGY AND TECHNOLOGY, 14 - 16 Ağustos 2017
- XXVI. **the investigation of the frequency dependent profile of Te/NaF:CdS/SnO₂ Schottky diodes**
SEVGİLİ Ö., ALTINDAL Ş., BACAKSIZ E.
4th international conference on materials science and nanotechnology for next generation, 28 - 30 Haziran 2017
- XXVII. **Elmas-Benzeri Karbon Aratabakalı Bir Yeni Schottky Diyodun Karakterizasyonu**
BAŞMAN N., UZUN R., FİAT VAROL S., BACAKSIZ E., ALKAN C., UZUN O.
6.Fiziksel Kimya Kongresi, 15 - 18 Mayıs 2017
- XXVIII. **Electrical characterization and two diode modeling of Ag/SiO_x-DLC/piSi Schottky barrier diode**
Basman N., Uzun R., Gocer E., BACAKSIZ E., KÖLEMEN U.
2nd international conference on advances in natural and applied science, Antalya, Turkey, 18 - 21 Nisan 2017
- XXIX. **Electrical characterization and two diode modeling of Ag/SiO_x-DLC/p-Si Schottky barrier diode.**
BAŞMAN N., UZUN R., GÖÇER E., BACAKSIZ E., KÖLEMEN U.
2nd International Conference on Advances in Natural and Applied Sciences, Türkiye, 18 - 21 Nisan 2017
- XXX. **Influence of the Sulfurization Time on the Structural Optical and Electrical Properties of Cu₂ZnSnS₄ Thin Films**
Olğar M., Joachim K., Ronald M., BACAKSIZ E., TOMAKİN M., Aygun Ozyuzer G., ÖZYÜZER L., Thomas U.
Science and Applications of Thin Films, Conference&Exhibition (SATF 2016) (Sözlü Bildiri)(Yayın No:2872378), İzmir, Türkiye, 19 - 23 Eylül 2016
- XXXI. **Investigation of the Homogeneity of Cu₂ZnSnS₄ Absorber Layer Fabricated by Sputtering and Rapid Thermal Processing**
Olğar M., Joachim K., BACAKSIZ E., Roland M., Thomas U.
International Physics Conference at the Anatolian Peak (Sözlü Bildiri)(Yayın No:2823112), Erzurum, Türkiye, 25 - 27 Şubat 2016
- XXXII. **Influence of the Composition of the Metallic Precursor on the Properties of CZTS Thin Film**
ATASOY Y., Olğar M., ÖZYÜZER GÜLNUR A., ÖZYÜZER L., BACAKSIZ E.
International Physics Conference at the Anatolian Peak (Poster)(Yayın No:2823115), 25 Şubat 2016
- XXXIII. **Improvement Of Wear Resistance Of Pure Titanium (Grade-2) By Boriding Using Electro-Beam**

Evaporation Technique At Room Temperature

KARA G., PÜRÇEK G., BACAKSIZ E., ATASOY Y.

BALKANTRIB'14, 8th International Conference on Tribology, Sinaia, Romanya, 30 Ekim - 01 Kasım 2014, ss.1

XXXIV. **Structural, Optical and Photocatalytic Properties of Cu-ZnO and ZnO Nanorods**

SÖKMEN M., ALTIN İ., YILMAZ S., POLAT İ., BACAKSIZ E.

Nanoscience and Nanotechnology Conference of Turkey (NanoTR 10), İstanbul, Türkiye, 17 - 21 Haziran 2014, ss.10

XXXV. **The influence of Substrate Temperature on the Structural and Electrical Characteristics of Au/p-CdTe/Al Schottky Barrier Diodes**

ATASOY Y., AKSU S., POLAT İ., YILMAZ S., ALTINDAL S., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.

International Semiconductor Science and Technology, İstanbul, Türkiye, 13 - 15 Ocak 2014, ss.45

XXXVI. **Optical Properties of CuIn_{0.7}Ga_{0.3}Se₂ Deposited with e Beam Evaporation at Different Annealing Temperatures**

ATASOY Y., AKSU S., POLAT İ., YILMAZ S., ALTINDAL Ş., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.

Turkish Physical Society 28. International Physics Congress, Muğla, Türkiye, 6 - 09 Eylül 2011

XXXVII. **Synthesis of TiO₂ Coated Self-Cleaning Materials**

SÖKMEN M., ALTIN İ., BURUK K., BACAKSIZ E.

7th Nanoscience and Nanotechnology Congress, İstanbul, Türkiye, 27 Haziran - 01 Temmuz 2011, ss.10

XXXVIII. **ZnO and ZnS Microrods Coated on Glass and Photocatalytic Activity**

SÖKMEN M., ALTIN İ., BACAKSIZ E., POLAT İ.

7th Nanoscience and Nanotechnology Congress, İstanbul, Türkiye, 27 Haziran - 01 Temmuz 2011, ss.11

XXXIX. **Titanyum dioksit ince film kaplı kendi kendini temizleyen malzemeler**

SÖKMEN M., BACAKSIZ E., BURUK C. K., TATLIDİL İ., SİVLİM T., AKKAN Ş.

XXIII. Ulusal Kimya Kongresi, Cumhuriyet Üniversitesi, Sivas, Türkiye, 16 - 20 Mart 2009

XL. **Püskürtme yöntemiyle elde edilen Cd_{1-x}CoxS ince filmlerin yapısal, Optik ve Manyetik özelliklerinin incelenmesi**

TOMAKIN M., KÜÇÜKÖMEROĞLU T., ALTUNBAS M., BACAKSIZ E.

24. International Physics Congress, Malatya, Türkiye, 28 - 31 Ağustos 2007, ss.135

XLI. **Determination of mass attenuation coefficients for CuInSe₂ and CuGaSe₂ semiconductors**

CELİK A., ÇEVİK U., BALTAS H., BACAKSIZ E.

6th International Conference of the Balkan-Physical-Union, İstanbul, Türkiye, 22 - 26 Ağustos 2006, cilt.899, ss.169-170

XLII. **Structure and Nanomechanical Properties of CdTe Thin Film Deposited on Glass at Different Substrate Temperature,**

PÜRÇEK G., BACAKSIZ E., MİSKİOĞLU İ.

NANO-TRII (Nanoscience and Nanotechnology 2006), METU, Ankara, Türkiye, 3 - 05 Mayıs 2006, ss.1

Diğer Yayınlar

1. "Improvement Of Wear Resistance Of Pure Titanium (Grade-2) By Boriding Using Electro-Beam Evaporation Technique At Room Temperature" BALKANTRIB'14, 8th International Conference on Tribology, Sinaia, ROMANYA, 30 Ekim - 1 Kasım 2014, pp.1-7

Kara G., Pürcek G., Atasoy Y., BACAKSIZ E.

Sunum, ss.1-7, 2014

Desteklenen Projeler

ALTIN İ., ALTINOK İ., FEYZİOĞLU A. M., BACAKSIZ E., BOFFA V., Yükseköğretim Kurumları Destekli Proje, Tarımsal biyotekniklerden elde edilecek grafen nanomateryallerine katalizör eklenerek atık suların arıtımında kullanılması, 2023 -

Devam Ediyor

BACAKSIZ E., KÜÇÜKÖMEROĞLU T., ATASOY Y., ÇİRİŞ A., TÜBİTAK Projesi, CdTe Tabanlı Güneş Pillerinde Selenyum Katkısının Pencere ve Soğurma Katmanları Üzerine Etkisi İncelenerek, Yüksek Verimli Güneş Hücrelerinin Üretilmesi, Devam Ediyor

Gedikli H., Alemdağ Y., Pürçek G., Sofuoğlu H., Öztürk B., Bacaksız E., Çanakçı A., Budur A. İ., Varol T., Aslan M., et al., Yükseköğretim Kurumları Destekli Proje, Soğuk püskürtme eklemeli üretim sisteminin tasarımı imalatı ve ileri mühendislik ürünü parça imalatına yönelik uygulamalar için geliştirilmesi, 2021 - 2024

Bacaksız E., Altın İ., Anucha B. C., UFUK 2020 Projesi, Interdisciplinary cross-sectoral approach to effectively address the removal of contaminants of emerging concern from water, 2017 - 2022

SAVAŞKAN YILMAZ S., KAYGUSUZ K., KOLCUOĞLU Y., ALTIN İ., BACAKSIZ E., Yükseköğretim Kurumları Destekli Proje, INTERNATIONAL CONFERENCE ON CHEMICAL ENERGY AND SEMICONDUCTOR PHOTOCHEMISTRY, 2019 - 2020

BACAKSIZ E., Yükseköğretim Kurumları Destekli Proje, Cu ve Mn Difüzyonunun ZnO Mnoçubukların Yapısal,Optik ve Manyetik Özellikleri Üzerine Etkisinin Araştırılması, 2011 - 2012

BACAKSIZ E., TÜBİTAK Projesi, Kendi kendini temizleme özelliğine sahip TiO₂ nanofilm kaplı malzeme üretimi ve fotokatalitik dezenfeksiyon uygulama, 2010 - 2012

BACAKSIZ E., Yükseköğretim Kurumları Destekli Proje, ZnO Tabanlı Seyreltik Manyetik Yarıiletkenlerinin Yapısal, Optik, Elektrik ve Manyetik Özelliklerinin İncelenmesi, 2009 - 2010

Metrikler

Yayın: 186

Atıf (WoS): 2756

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H-İndeks (Scopus): 30