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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

Dissertations

Doctorate, CdS ince filmlerin farklı yöntemlerle büyütülmesi, yapısal, elektriksel ve optiksel özelliklerinin incelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2002

Postgraduate, Bakır difüzyonunun CuGaSe₂-Ga As güneş pillerinin karakteristiklerine etkisi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 1997

Research Areas

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

Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2014 - Continues

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2009 - 2014

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

Lecturer PhD, Karadeniz Technical University, Fen Fakültesi, Fizik, 2002 - 2004

Research Assistant, Karadeniz Technical University, Fen Fakültesi, Fizik, 1995 - 2002

Courses

Optics, Undergraduate, 2014 - 2015

Fizik-I, Undergraduate, 2014 - 2015

Advising Theses

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), Doctorate, C.BETHEL(Student), 2022

BACAKSIZ E., Investigation of the effect of selenium addition to window and absorption layers on cell performance in CdS/CdTe solar cells, Doctorate, A.Çiriş(Student), 2021

BACAKSIZ E., The fabrication and investigation of some structural, optical and electrical properties of tellerium doped Cu(In,Ga)Se₂ thin films, Doctorate, Y.Atasoy(Student), 2018

Bacaksız E., Thesis, Postgraduate, S.Erkan(Student), 2018

BACAKSIZ E., Investigation of effects of the film homogeneity on the cell efficiency of Cu₂ZnSnS₄ (CZTS) based thin film solar cell, Doctorate, M.Ali(Student), 2017

Bacaksız E., The production and investigation of some structural, optical and magnetic properties of ZnO-based diluted magnetic semiconductors, Doctorate, S.Yılmaz(Student), 2013

Bacaksız E., Thesis, Postgraduate, Y.Atasoy(Student), 2012

Bacaksız E., Thesis, Postgraduate, H.Bayrak(Student), 2011

Bacaksız E., Thesis, Postgraduate, S.Yılmaz(Student), 2007

Bacaksız E., Kimyasal püskürtme yöntemiyle alde edilen CdO ince filmlerinin bazı yapısal, elektriksel ve optik özelliklerinin incelenmesi, Postgraduate, İ.POLAT(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Improving photovoltaic characteristics of CdS-based hybrid solar cells through Mn incorporation**
Doğan V., Yılmaz S., TOMAKİN M., Törelİ S., POLAT İ., BACAKSIZ E.
Journal of Photochemistry and Photobiology A: Chemistry, vol.453, 2024 (SCI-Expanded)
- II. **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, vol.372, 2024 (SCI-Expanded)
- III. **Introduction of Co atoms into CdS thin films for improving photovoltaic properties**
Yılmaz S., Doğan V., TOMAKİN M., Törelİ S., POLAT İ., BACAKSIZ E.
Materials Today Communications, vol.39, 2024 (SCI-Expanded)
- IV. **Performance assessment of oxygenated CdS films-based photodetector**
POLAT İ., Yılmaz S., KÜÇÜKÖMEROĞLU T., TOMAKİN M., BACAKSIZ E.
Materials Today Communications, vol.38, 2024 (SCI-Expanded)
- V. **Improving device performance of sputtered CZTSe based solar cells by Manganese doping**
Atasoy Y., Başol B. M., BACAKSIZ E.
Optical Materials, vol.149, 2024 (SCI-Expanded)
- VI. **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, vol.39, no.2, 2024 (SCI-Expanded)
- VII. **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, vol.267, 2024 (SCI-Expanded)
- VIII. **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, vol.44, 2024 (SCI-Expanded)
- IX. **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, vol.34, no.27, 2023 (SCI-Expanded)
- X. **Photodetector properties of CdSe thin films grown by close space sublimation method**

Olgar M. A., Başol B. M., POLAT İ., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.34, no.25, 2023 (SCI-Expanded)

- XI. **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, vol.129, no.8, 2023 (SCI-Expanded)
- XII. **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, vol.129, no.8, 2023 (SCI-Expanded)
- XIII. **Characterization of Cu(In,Ga)(Te,S)₂ thin films grown on stainless steel foil substrates**
KARACA A., Başol B. M., Olgar M. A., Büyüklimanlı T., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.56, no.19, 2023 (SCI-Expanded)
- XIV. **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, vol.170, 2022 (SCI-Expanded)
- XV. **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, vol.149, 2022 (SCI-Expanded)
- XVI. **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, vol.10, no.6, 2022 (SCI-Expanded)
- XVII. **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., BACAKSIZ E., Stathopoulos V. N., Pandis P. K., Argirusis C., Andreouli C., Tatoudi Z., ALTIN İ.
CATALYSTS, vol.12, no.5, 2022 (SCI-Expanded)
- XVIII. **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, vol.12, no.5, 2022 (SCI-Expanded)
- XIX. **Fabrication of CdS nanospheres-based hybrid solar cells having increased efficiency**
Yılmaz S., Unverdi A., TOMAKİN M., POLAT İ., BACAKSIZ E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.3, 2022 (SCI-Expanded)
- XX. **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., BACAKSIZ E.
SOLAR ENERGY, vol.234, pp.128-136, 2022 (SCI-Expanded)
- XXI. **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., BACAKSIZ E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.128, 2021 (SCI-Expanded)
- XXII. **Silver Doped Zinc Stannate (Ag-ZnSnO₃) for the Photocatalytic Degradation of Caffeine under UV Irradiation**
Anucha C. B., Altin İ., BACAKSIZ E., Stathopoulos V. N., POLAT İ., YAŞAR A., Yüksel Ö. F.
WATER, vol.13, no.9, 2021 (SCI-Expanded)
- XXIII. **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, vol.54, no.21, 2021 (SCI-Expanded)
- XXIV. **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., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.7, pp.9685-9693, 2021 (SCI-

Expanded)

- XXV. **Phase transformation in Cu₂SnS₃ (CTS) thin films through pre-treatment in sulfur atmosphere**
Olgar M., Başol B., TOMAKIN M., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.8, pp.10018-10027, 2021 (SCI-Expanded)
- XXVI. **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.
SEPARATIONS, vol.8, no.3, 2021 (SCI-Expanded)
- XXVII. **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., BACAKSIZ E., Magnacca G.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.123, 2021 (SCI-Expanded)
- XXVIII. **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.
SEPARATIONS, vol.8, no.3, 2021 (SCI-Expanded)
- XXIX. **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., Bacaksız E.
Separations, vol.7, no.4, pp.1-20, 2020 (SCI-Expanded)
- XXX. **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., Bacaksız E., Polat İ., Stathopoulos V. N.
NANOMATERIALS, vol.10, no.11, 2020 (SCI-Expanded)
- XXXI. **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., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.15, pp.12932-12942, 2020 (SCI-Expanded)
- XXXII. **Transparent and conductive CdS:Ca thin films for optoelectronic applications**
Yilmaz S., Polat İ., Tomakin M., Bacaksız E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.7, 2020 (SCI-Expanded)
- XXXIII. **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, vol.30, no.13, pp.12612-12618, 2019 (SCI-Expanded)
- XXXIV. **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, vol.30, no.11, pp.10435-10442, 2019 (SCI-Expanded)
- XXXV. **Growth of Cu₂ZnSnS₄ (CZTS) thin films using short sulfurization periods**
OLGAR M. A., TOMAKIN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
MATERIALS RESEARCH EXPRESS, vol.6, no.5, 2019 (SCI-Expanded)
- XXXVI. **Improved optical transparency of calcium-doped ZnO thin films**
POLAT İ., Yilmaz S., Tomakin M., BACAKSIZ E.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.13, pp.326-332, 2019 (SCI-Expanded)
- XXXVII. **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, vol.91, pp.90-96, 2019 (SCI-Expanded)
- XXXVIII. **Determination of optimum Er-doping level to get high transparent and low resistive Cd_{1-x}Er_xS thin films**
Yilmaz S., Polat İ., Tomakin M., Bacaksız E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.6, pp.5662-5669, 2019 (SCI-Expanded)
- XXXIX. **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, vol.34, no.3, 2019 (SCI-Expanded)
- XL. **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, vol.90, pp.101-106, 2019 (SCI-Expanded)
- XLI. **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, vol.125, no.1, 2019 (SCI-Expanded)
- XLII. **Surface modification of CBD-grown CdS thin films for hybrid solar cell applications**
Yilmaz S., UNVERDI A., Tomakin M., POLAT İ., BACAKSIZ E.
OPTIK, vol.185, pp.256-263, 2019 (SCI-Expanded)
- XLIII. **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, vol.88, pp.234-238, 2018 (SCI-Expanded)
- XLIV. **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, vol.29, no.17, pp.14774-14782, 2018 (SCI-Expanded)
- XLV. **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, vol.124, no.7, 2018 (SCI-Expanded)
- XLVI. **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, vol.29, no.12, pp.10054-10060, 2018 (SCI-Expanded)
- XLVII. **Electrodeposition of Si-DLC nanocomposite film and its electronic application**
Basman N., Uzun R., Gocer E., BACAKSIZ E., Kolemen U.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, vol.24, no.5, pp.2287-2294, 2018 (SCI-Expanded)
- XLVIII. **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 (SCI-Expanded)
- XLIX. **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., BACAKSIZ E., Bilkan C.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, vol.87, no.3, pp.409-417, 2017 (SCI-Expanded)
- L. **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., BACAKSIZ E., AYDOĞAN Ş.

SENSORS AND ACTUATORS A-PHYSICAL, vol.261, pp.56-65, 2017 (SCI-Expanded)

- L.I. **Interpretation of barrier height inhomogeneities in Au/In₂S₃/SnO₂/(In-Ga) structures at low temperatures**
TECİMER H., Altındal S., Aksu S., Atasoy Y., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.10, pp.7501-7508, 2017 (SCI-Expanded)
- L.II. **Enhancement in the optical and electrical properties of CdS thin films through Ga and K co-doping**
Yilmaz S., TORELI S. B., POLAT İ., OLGAR M. A., Tomakin M., BACAKSIZ E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.60, pp.45-52, 2017 (SCI-Expanded)
- L.III. **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., BACAKSIZ E.
THIN SOLID FILMS, vol.624, pp.167-174, 2017 (SCI-Expanded)
- L.IV. **Physical properties of CdS:Ga thin films synthesized by spray pyrolysis technique**
Yilmaz S., POLAT İ., OLGAR M. A., Tomakin M., TORELI S. B., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.4, pp.3191-3199, 2017 (SCI-Expanded)
- L.V. **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., BACAKSIZ E.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.682, pp.610-617, 2016 (SCI-Expanded)
- L.VI. **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., BACAKSIZ E.
THIN SOLID FILMS, vol.592, pp.189-194, 2015 (SCI-Expanded)
- L.VII. **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, vol.21, no.1, pp.24-37, 2015 (SCI-Expanded)
- L.VIII. **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., BACAKSIZ E., Koralli P., Kompitsas M., ÇANKAYA G.
MATERIALS LETTERS, vol.142, pp.273-276, 2015 (SCI-Expanded)
- L.IX. **MICROSTRUCTURE AND TRIBOLOGICAL PROPERTIES OF Ti BORIDED BY ELECTRON BEAM EVAPORATION TECHNIQUE**
KARA G., PÜRÇEK G., ATASOY Y., BACAKSIZ E.
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.21, no.1, pp.24-37, 2015 (SCI-Expanded)
- L.X. **The influence of Cu-doping on structural, optical and photocatalytic properties of ZnO nanorods**
Polat İ., Yilmaz S., Altin İ., BACAKSIZ E., Sökmen M.
MATERIALS CHEMISTRY AND PHYSICS, vol.148, no.3, pp.528-532, 2014 (SCI-Expanded)
- L.XI. **Synthesis and characterization of Mn-doped ZnO nanorods grown in an ordered periodic honeycomb pattern using nanosphere lithography**
Yilmaz S., Garry S., McGlynn E., BACAKSIZ E.
CERAMICS INTERNATIONAL, vol.40, no.6, pp.7753-7759, 2014 (SCI-Expanded)
- L.XII. **Synthesis and fabrication of Mg-doped ZnO-based dye-synthesized solar cells**
POLAT İ., Yilmaz S., BACAKSIZ E., Atasoy Y., Tomakin M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, no.7, pp.3173-3178, 2014 (SCI-Expanded)
- L.XIII. **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., BACAKSIZ E., ÇANKAYA G., Koralli P., Manolakos D. E., Kompitsas M.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.14, no.7, pp.5002-5010, 2014 (SCI-Expanded)
- L.XIV. **Structural, morphological, optical and electrical evolution of spray deposited ZnO rods co-doped**

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Yilmaz S., POLAT İ., Atasoy Y., BACAŞIZ E.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, no.4, pp.1810-1816, 2014 (SCI-Expanded)

- LXV. **Defect-mediated ferromagnetism in ZnO:Mn nanorods**
Yilmaz S., McGlynn E., BACAŞIZ E., Bogan J.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.115, no.1, pp.313-321, 2014 (SCI-Expanded)
- LXVI. **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, vol.585, pp.178-184, 2014 (SCI-Expanded)
- LXVII. **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, vol.545, pp.64-70, 2013 (SCI-Expanded)
- LXVIII. **The effect of metal work function on the barrier height of metal/CdS/SnO₂/In-Ga structures**
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