

# Prof. EMİN BACAĞSIZ

## Personal Information

Office Phone: [+90 462 377 2545](tel:+904623772545)

Email: [eminb@ktu.edu.tr](mailto:eminb@ktu.edu.tr)

Web: <https://avesis.ktu.edu.tr//eminb>

## International Researcher IDs

ORCID: 0000-0002-0041-273X

Yoksis Researcher ID: 31961

## 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 CuGaSe<sub>2</sub>-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 TiO<sub>2</sub> photocatalyst on  $\alpha$ -Al<sub>2</sub>O<sub>3</sub> 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

BACAŞIZ 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

BACAŞIZ E., The fabrication and investigation of some structural, optical and electrical properties of tellerium doped Cu(In,Ga)Se<sub>2</sub> thin films, Doctorate, Y.Atasoy(Student), 2018

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

BACAŞIZ E., Investigation of effects of the film homogeneity on the cell efficiency of Cu<sub>2</sub>ZnSnS<sub>4</sub> (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 elde 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. **Fabrication and characterization of self-powered SnO<sub>2</sub>/CdTe<sub>1-x</sub>Se<sub>x</sub>/CdTe photodetectors**  
Yılmaz S., Başol B. M., POLAT İ., KÜÇÜKÖMEROĞLU T., BACAŞIZ E.  
Journal of Materials Science: Materials in Electronics, vol.35, no.36, 2024 (SCI-Expanded)
- II. **Development of photovoltaic and photodetection characteristics in CdS/P3HT devices through Al-doping**  
Törelİ S., Yılmaz S., TOMAKİN M., POLAT İ., BACAŞIZ E.  
Materials Science and Engineering: B, vol.309, 2024 (SCI-Expanded)
- III. **Enhancement of the response speed of CIGS-based photodetector by Te-doping**  
Yılmaz S., Başol B. M., Atasoy Y., POLAT İ., KÜÇÜKÖMEROĞLU T., BACAŞIZ E.  
Sensors and Actuators A: Physical, vol.377, 2024 (SCI-Expanded)
- IV. **Improving photovoltaic characteristics of CdS-based hybrid solar cells through Mn incorporation**  
Doğan V., Yılmaz S., TOMAKİN M., Törelİ S., POLAT İ., BACAŞIZ E.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.453, 2024 (SCI-Expanded)
- V. **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., BACAŞIZ E.  
Sensors and Actuators A: Physical, vol.372, 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, vol.190, 2024 (SCI-Expanded)
- VII. **Introduction of Co atoms into CdS thin films for improving photovoltaic properties**  
Yılmaz S., Doğan V., TOMAKİN M., Törelİ S., POLAT İ., BACAŞIZ E.  
Materials Today Communications, vol.39, 2024 (SCI-Expanded)
- VIII. **Improving device performance of sputtered CZTSe based solar cells by Manganese doping**  
Atasoy Y., Başol B. M., BACAŞIZ E.  
Optical Materials, vol.149, 2024 (SCI-Expanded)
- IX. **Performance assessment of oxygenated CdS films-based photodetector**  
POLAT İ., Yılmaz S., KÜÇÜKÖMEROĞLU T., TOMAKİN M., BACAŞIZ E.  
Materials Today Communications, vol.38, 2024 (SCI-Expanded)
- X. **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)

- XI. **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)
- XII. **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, vol.221, no.2, 2024 (SCI-Expanded)
- XIII. **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)
- XIV. **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, vol.363, 2023 (SCI-Expanded)
- XV. **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)
- XVI. **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, vol.34, no.25, 2023 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **Characterization of Cu(In,Ga)(Te,S)<sub>2</sub> 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, vol.56, no.19, 2023 (SCI-Expanded)
- XX. **The effect of ZnCl<sub>2</sub> and CdCl<sub>2</sub> 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)
- XXI. **Comparison of the impact of different chlorination treatments to ZnS and CdS thin films**  
Çiriş A., Atasoy Y., Tomakin M., Bacaksız E.  
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- XXII. **Molybdenum Modified Sol-Gel Synthesized TiO<sub>2</sub> 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)
- XXIII. **Preparation and Characterization of Supported Molybdenum Doped TiO<sub>2</sub> on alpha-Al<sub>2</sub>O<sub>3</sub> 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.  
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- XXIV. **Preparation and Characterization of Supported Molybdenum Doped TiO<sub>2</sub> on α-Al<sub>2</sub>O<sub>3</sub> Ceramic Substrate for the Photocatalytic Degradation of Ibuprofen (IBU) under UV Irradiation**  
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Catalysts, vol.12, no.5, 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., BACAKSIZ E.  
SOLAR ENERGY, vol.234, pp.128-136, 2022 (SCI-Expanded)
- XXVI. **Fabrication of CdS nanospheres-based hybrid solar cells having increased efficiency**  
Yilmaz S., Unverdi A., TOMAKİN M., POLAT İ., BACAKSIZ E.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.3, 2022 (SCI-Expanded)
- XXVII. **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)
- 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, vol.54, no.21, 2021 (SCI-Expanded)
- XXIX. **Silver Doped Zinc Stannate (Ag-ZnSnO<sub>3</sub>) 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)
- XXX. **Phase transformation in Cu<sub>2</sub>SnS<sub>3</sub> (CTS) thin films through pre-treatment in sulfur atmosphere**  
Olgar M., Başol B., TOMAKİN M., BACAKSIZ E.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.8, pp.10018-10027, 2021 (SCI-Expanded)
- XXXI. **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)
- XXXII. **Enhanced Photocatalytic Activity of CuWO<sub>4</sub> Doped TiO<sub>2</sub> 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)
- XXXIII. **Hydrothermal preparation of B-TiO<sub>2</sub>-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)
- XXXIV. **Immobilized TiO<sub>2</sub>/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)
- XXXV. **Synthesis and characterization of B/NaF and silicon phthalocyanine-modified TiO<sub>2</sub> 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, vol.7, no.4, pp.1-20, 2020 (SCI-Expanded)
- XXXVI. **Synthesis, Characterization, and Photocatalytic Evaluation of Manganese (III) Phthalocyanine Sensitized ZnWO<sub>4</sub> (ZnWO<sub>4</sub>MnPc) for Bisphenol A Degradation under UV Irradiation**  
Anucha C. B., Altin İ., Bıyıklıoğlu Z., Bacaksiz E., Polat İ., Stathopoulos V. N.  
NANOMATERIALS, vol.10, no.11, 2020 (SCI-Expanded)
- XXXVII. **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-

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- XXXVIII. **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)
- XXXIX. **Growth and characterization of Cu<sub>2</sub>SnS<sub>3</sub> (CTS), Cu<sub>2</sub>SnSe<sub>3</sub> (CTSe), and Cu<sub>2</sub>Sn(S,Se)(<sub>3</sub>) (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)
- XL. **Structural, optical and Schottky diode properties of Cu<sub>2</sub>ZnSnS<sub>4</sub> 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)
- XLI. **Growth of Cu<sub>2</sub>ZnSnS<sub>4</sub> (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)
- XLII. **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)
- 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, vol.34, no.3, 2019 (SCI-Expanded)
- XLIV. **Alloying and phase transformation in CdS/CdSe bilayers annealed with or without CdCl<sub>2</sub>**  
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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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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- XLIX. **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)
- L. **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)
- LI. **An evaluation of structural, optical and electrical characteristics of Ag/ZnO rods/SnO<sub>2</sub>/In-Ga Schottky diode**  
KÜÇÜKÖMEROĞLU T., YILMAZ S., POLAT İ., BACAKSIZ E.

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- LII. **Electrodeposition of Si-DLC nanocomposite film and its electronic application**  
Basman N., Uzun R., Gocer E., BACAŞIZ E., Kolemen U.  
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- LIII. **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.  
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- LIV. **The Investigation of Current-Conduction Mechanisms of Te/NaF:CdS/SnO<sub>2</sub> 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, vol.87, no.3, pp.409-417, 2017 (SCI-Expanded)
- LV. **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, vol.261, pp.56-65, 2017 (SCI-Expanded)
- LVI. **Interpretation of barrier height inhomogeneities in Au/In<sub>2</sub>S<sub>3</sub>/SnO<sub>2</sub>/(In-Ga) structures at low temperatures**  
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JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.10, pp.7501-7508, 2017 (SCI-Expanded)
- LVII. **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., BACAŞIZ E.  
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- LVIII. **Effect of heat treating metallic constituents on the properties of Cu<sub>2</sub>ZnSnSe<sub>4</sub> 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, vol.624, pp.167-174, 2017 (SCI-Expanded)
- LIX. **Physical properties of CdS:Ga thin films synthesized by spray pyrolysis technique**  
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JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.4, pp.3191-3199, 2017 (SCI-Expanded)
- LX. **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, vol.682, pp.610-617, 2016 (SCI-Expanded)
- LXI. **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, vol.592, pp.189-194, 2015 (SCI-Expanded)
- LXII. **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)
- LXIII. **A novel nanostructured CuIn<sub>0.7</sub>Ga<sub>0.3</sub>(Se<sub>0.4</sub>Te<sub>0.6</sub>)(2)/SLG multinary compounds thin films: For photovoltaic applications**  
Varol S. F., BACAŞIZ E., Koralli P., Kompitsas M., ÇANKAYA G.  
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- LXIV. **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, vol.21, no.1, pp.24-37, 2015 (SCI-Expanded)
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