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Kişisel Bilgiler

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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

Araştırma Alanları

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

Akademik Unvanlar / Görevler

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

Verdiği Dersler

Optics, Lisans, 2014 - 2015

Fizik-I, Lisans, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **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, cilt.128, sa.3, 2022 (SCI İndekslerine Giren Dergi)
- II. **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, cilt.234, ss.128-136, 2022 (SCI İndekslerine Giren Dergi)
- III. **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, cilt.128, 2021 (SCI İndekslerine Giren Dergi)
- IV. **Silver Doped Zinc Stannate (Ag-ZnSnO₃) for the Photocatalytic Degradation of Caffeine under UV Irradiation**
Anucha C. B. , Altın İ., BACAKSIZ E., Stathopoulos V. N. , POLAT İ., YAŞAR A., Yüksel Ö. F.
WATER, cilt.13, sa.9, 2021 (SCI İndekslerine Giren Dergi)
- V. **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.

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- VI. **Phase transformation in Cu₂SnS₃ (CTS) thin films through pre-treatment in sulfur atmosphere**
Olgar M., Başol B., TOMAKİN M., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.8, ss.10018-10027, 2021 (SCI İndekslerine Giren Dergi)
- VII. **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, cilt.32, sa.7, ss.9685-9693, 2021 (SCI İndekslerine Giren Dergi)
- VIII. **Enhanced Photocatalytic Activity of CuWO₄ Doped TiO₂ Photocatalyst Towards Carbamazepine Removal under UV Irradiation**
Anucha C. B. , ALTIN İ., BACAKSIZ E., KÜÇÜKÖMEROĞLU T., Belay M. H. , Stathopoulos V. N.
SEPARATIONS, cilt.8, sa.3, 2021 (SCI İndekslerine Giren Dergi)
- IX. **Immobilized TiO₂/ZnO Sensitized Copper (II) Phthalocyanine Heterostructure for the Degradation of Ibuprofen under UV Irradiation**
BethelAnucha C., Altin I., BACAKSIZ E., DEĞİRMENCİOĞLU İ., KÜÇÜKÖMEROĞLU T., Yilmaz S., Stathopoulos V. N.
SEPARATIONS, cilt.8, sa.3, 2021 (SCI İndekslerine Giren Dergi)
- X. **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.
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- XI. **Synthesis and characterization of B/NaF and silicon phthalocyanine-modified TiO₂ and an evaluation of their photocatalytic removal of carbamazepine**
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 İndekslerine Giren Dergi)
- XII. **Synthesis, Characterization, and Photocatalytic Evaluation of Manganese (III) Phthalocyanine Sensitized ZnWO₄ (ZnWO₄MnPc) for Bisphenol A Degradation under UV Irradiation**
Anucha C. B. , Altin İ., Biyiklioğlu Z., Bacaksiz E., Polat İ., Stathopoulos V. N.
NANOMATERIALS, cilt.10, sa.11, 2020 (SCI İndekslerine Giren Dergi)
- XIII. **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, cilt.31, sa.15, ss.12932-12942, 2020 (SCI İndekslerine Giren Dergi)
- XIV. **Transparent and conductive CdS:Ca thin films for optoelectronic applications**
Yilmaz S., Polat İ., Tomakin M., Bacaksiz E.
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- XV. **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., TOMAKİN M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.30, sa.13, ss.12612-12618, 2019 (SCI İndekslerine Giren Dergi)
- XVI. **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 İndekslerine Giren Dergi)
- XVII. **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 İndekslerine Giren Dergi)
- XVIII. **Growth of Cu₂ZnSnS₄ (CZTS) thin films using short sulfurization periods**
OLGAR M. A. , TOMAKIN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
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- XIX. **Cu(In,Ga)Te-2 film growth by a two-stage technique utilizing rapid thermal processing**
ERKAN S., BASOL B. M. , Atasoy Y., CIRIS A., Yuksel O. F. , BACAKSIZ E.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, cilt.34, sa.3, 2019 (SCI İndekslerine Giren Dergi)
- XX. **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., Bacaksiz E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.30, sa.6, ss.5662-5669, 2019 (SCI İndekslerine Giren Dergi)
- XXI. **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.
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- XXII. **CZTS layers formed under sulfur-limited conditions at above atmospheric pressure**
OLGAR M. A. , BACAKSIZ E., TOMAKIN M., KÜÇÜKÖMEROĞLU T., BASOL B. M.
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- XXIII. **A research on growth and characterization of CdS:Eu thin films**
Yilmaz S., POLAT İ., Tomakin M., BACAKSIZ E.
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- XXIV. **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 İndekslerine Giren Dergi)
- XXV. **Influence of pre-annealing Cu-Sn on the structural properties of CZTSe thin films grown by a two-stage process**
Olgar M., Başol B., TOMAKIN M., Seyhan A., BACAKSIZ E.
Materials Science in Semiconductor Processing, cilt.88, ss.234-238, 2018 (SCI İndekslerine Giren Dergi)
- XXVI. **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 İndekslerine Giren Dergi)
- XXVII. **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 İndekslerine Giren Dergi)
- XXVIII. **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 İndekslerine Giren Dergi)
- XXIX. **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, cilt.24, sa.5, ss.2287-2294, 2018 (SCI İndekslerine Giren Dergi)
- XXX. **Cu(In,Ga)(Se,Te)(2) films formed on metal foil substrates by a two-stage process employing electrodeposition and evaporation**
Atasoy Y., BASOL B. M. , OLGAR M. A. , Tomakin M., BACAKSIZ E.
THIN SOLID FILMS, cilt.649, ss.30-37, 2018 (SCI İndekslerine Giren Dergi)
- XXXI. **The Investigation of Current-Conduction Mechanisms of Te/NaF:CdS/SnO₂ Structure in Wide**

Temperature Range of 80-400 K

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

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, cilt.87, sa.3, ss.409-417, 2017 (SCI İndekslerine Giren Dergi)

- XXXII. **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 İndekslerine Giren Dergi)
- XXXIII. **Interpretation of barrier height inhomogeneities in Au/In₂S₃/SnO₂/(In-Ga) structures at low temperatures**
TECİMER H., Altındal S., Aksu S., Atasoy Y., BACAŞIZ E.
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- XXXIV. **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 İndekslerine Giren Dergi)
- XXXV. **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.
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- XXXVI. **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 İndekslerine Giren Dergi)
- XXXVII. **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 İndekslerine Giren Dergi)
- XXXVIII. **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.
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- XXXIX. **Microstructure And Tribological Properties Of Ti Borided By Electron Beam Evaporation Technique**
Kara G., Pürçek G., Bacaksız E., Atasoy Y.
Journal Of The Balkan Tribological Association, cilt.21, sa.1, ss.24-37, 2015 (SCI Expanded İndekslerine Giren Dergi)
- XL. **A novel nanostructured CuIn_{0.7}Ga_{0.3}(Se_{0.4}Te_{0.6})(₂)/SLG multinary compounds thin films: For photovoltaic applications**
Varol S. F. , BACAŞIZ E., Koralli P., Kompitsas M., ÇANKAYA G.
MATERIALS LETTERS, cilt.142, ss.273-276, 2015 (SCI İndekslerine Giren Dergi)
- XLI. **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 İndekslerine Giren Dergi)
- XLII. **The influence of Cu-doping on structural, optical and photocatalytic properties of ZnO nanorods**
Polat İ., Yılmaz S., Altin İ., BACAŞIZ E., Sökmen M.
MATERIALS CHEMISTRY AND PHYSICS, cilt.148, sa.3, ss.528-532, 2014 (SCI İndekslerine Giren Dergi)
- XLIII. **Synthesis and characterization of Mn-doped ZnO nanorods grown in an ordered periodic honeycomb pattern using nanosphere lithography**
Yılmaz S., Garry S., McGlynn E., BACAŞIZ E.
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- XLIV. **Synthesis and fabrication of Mg-doped ZnO-based dye-synthesized solar cells**

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

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- XLV. **Optical and Structural Properties of Nanostructured $\text{CuIn}_{0.7}\text{Ga}_{0.3}(\text{Se}_{1-x}\text{Te}_x)_2$ Chalcopyrite Thin Films-Effect of Stoichiometry and Annealing**
Fiat S., POLAT İ., BACAŞIZ E., ÇANKAYA G., Koralli P., Manolakos D. E., Kompitsas M.
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- XLVI. **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.
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- XLVII. **Defect-mediated ferromagnetism in ZnO:Mn nanorods**
Yilmaz S., McGlynn E., BACAŞIZ E., Bogan J.
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- XLVIII. **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.
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- XLIX. **The influence of stoichiometry and annealing temperature on the properties of $\text{CuIn}_{0.7}\text{Ga}_{0.3}\text{Se}_2$ and $\text{CuIn}_{0.7}\text{Ga}_{0.3}\text{Te}_2$ 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 İndekslerine Giren Dergi)
- L. **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 İndekslerine Giren Dergi)
- LI. **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.
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- LII. **Defect-induced room temperature ferromagnetism in B-doped ZnO**
YILMAZ Ş., Nisar J., Atasoy Y., McGlynn E., Ahuja R., PARLAK M., BACAŞIZ E.
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- LIII. **Schottky diode properties of CuInSe_2 films prepared by a two-step growth technique**
Tecimer H., Aksu S., Uslu H., Atasoy Y., BACAŞIZ E., Altindal S.
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- LIV. **Fabrication and structural, electrical characterization of i-ZnO/n-ZnO nanorod homojunctions**
YILMAZ Ş., BACAŞIZ E., POLAT İ., Atasoy Y.
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- LV. **Structural, optical and magnetic properties of $\text{Zn}_{1-x}\text{Mn}_x\text{O}$ 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 İndekslerine Giren Dergi)
- LVI. **Structural and electrical characterization of rectifying behavior in n-type/intrinsic ZnO-based homojunctions**
Yilmaz S., POLAT İ., Altindal S., BACAŞIZ E.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, cilt.177, sa.8, ss.588-593, 2012 (SCI İndekslerine Giren Dergi)
- LVII. **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 İndekslerine Giren Dergi)

- LVIII. **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.
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- LIX. **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 İndekslerine Giren Dergi)
- LX. **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 İndekslerine Giren Dergi)
- LXI. **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 İndekslerine Giren Dergi)
- LXII. **Effects of Cu diffusion-doping on structural, optical, and magnetic properties of ZnO nanorod arrays grown by vapor phase transport method**
Yılmaz 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 İndekslerine Giren Dergi)
- LXIII. **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.
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- LXIV. **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 İndekslerine Giren Dergi)
- LXV. **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 İndekslerine Giren Dergi)
- LXVI. **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 İndekslerine Giren Dergi)
- LXVII. **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.
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