

Prof. MURAT TOMAKİN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABI-3924-2020

ScopusID: 8617961600

Yoksis Researcher ID: 33632

Education Information

Doctorate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 2003 - 2008

Postgraduate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 2001 - 2003

Undergraduate, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Fizik, Turkey 1996 - 2000

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Vocational Training, Fizik ve Yenilikçi Teknolojiler Çalıştayı, Recep Tayyip Erdoğan Üniversitesi, 2014

Foreign Language, English Course, EF International Language Centres, 2014

Vocational Training, Low Temperature PL/PLE/TR System, DongWoo Optron Co., Ltd., 2014

IT, MATLAB Fundamentals, FİGES, Computer Simulation in Physics and Geometry A.S, 2010

Vocational Training, Yoğun Madde Fiziği Çalıştayı, TÜBİTAK Feza Gürsey Enstitüsü, 2004

Dissertations

Doctorate, CdS İnce Film Örneklerinin Soğuk Altık Üzerinde Üretilmesi, Yapısal, Elektriksel ve Optik Özelliklerinin İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik, 2008

Postgraduate, Kimyasal Püskürtme Yöntemiyle Elde Edilen Cd_{1-x}Zn_xS İnce Filmlerinin Bazı Yapısal, Elektriksel ve Optik Özelliklerinin İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik, 2003

Research Areas

Physics, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2018 - Continues
Associate Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2013 - 2018
Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2009 - 2013
Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2008 - 2009
Research Assistant, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2006 - 2008
Research Assistant, Karadeniz Technical University, Rize Fen-Edebiyat Fakültesi, Fizik, 2000 - 2006

Academic and Administrative Experience

Birim Kalite Komisyonu Başkanı, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2023 - Continues
Bölüm Stratejik Plan Komisyonu Üyesi, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2023 - Continues
Bölüm Kalite Komisyonu Üyesi, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2023 - Continues
Fakülte Akademik Kurul Üyesi, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2023 - Continues
Member of the Senate, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2021 - Continues
Dean, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2021 - Continues
University Executive Board Member, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2021 - Continues
Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2021 - Continues
Ethics Committee Member, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2020 - Continues
Head of Department, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2013 - Continues
Member of University Quality Commission, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2021 - 2024
Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2020 - 2023
Bölüm Stratejik Plan Komisyonu Başkanı, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2020 - 2023
Fakülte Akademik Kurul Üyesi, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2020 - 2023
Head of Department, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2020 - 2023
Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2020 - 2023
Fakülte Akademik Kurul Üyesi, Recep Tayyip Erdogan University, Dış Hekimliği Fakültesi, 2019 - 2023
Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, Dış Hekimliği Fakültesi, 2019 - 2023
BAP Scientific Commissioner, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2018 - 2022
Director of The Institution, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2020 - 2021
Head of Department, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, İş Salığı Ve Güvenliği, 2019 - 2020
Recep Tayyip Erdogan University, Fen-Edebiyat Fakültesi, 2013 - 2018
Recep Tayyip Erdogan University, Fen-Edebiyat Fakültesi, 2009 - 2012
Recep Tayyip Erdogan University, Fen-Edebiyat Fakültesi, 2011 - 2011
Erasmus Coordinator, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, 2011 - 2011
Recep Tayyip Erdogan University, Fen-Edebiyat Fakültesi, Fizik, 2011 - 2011

Courses

Astronomy, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Modern Fizik Laboratuvarı, Undergraduate, 2020 - 2021
Yarıiletken Aygıtların Fiziği, Postgraduate, 2020 - 2021
Optic and Waves, Undergraduate, 2020 - 2021
Semiconductor Materials and Device Characterization, Postgraduate, 2020 - 2021
Advanced Semiconductor Physics, Postgraduate, 2020 - 2021

Advising Theses

Tomakin M., Cu₂Sn(S,Se)₃ ince filmlerinin üretilmesi ve aygıt özelliklerinin incelenmesi, Doctorate, T.BAYAZIT(Student), 2021
Tomakin M., Levitasyon Uygulamaları için YBCO tek kristal süperiletkenlerin üretimi ve karakterizasyonu, Doctorate, S.Barış(Student), 2017
Tomakin M., OVALI R. V., Katkılı boya duyarlı güneş pillerinin elektronik özelliklerinin hesaplanması, Postgraduate, A.Kara(Student), 2014
Tomakin M., Kimyasal banyo yöntemiyle elde edilen Cd_{1-x}CoxS ince filmlerin bazı yapısal, elektriksel ve optik özelliklerinin incelenmesi, Postgraduate, Y.ÖNCEL(Student), 2014

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Recep Tayyip Erdoğan Üniversitesi, January, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Recep Tayyip Erdoğan Üniversitesi, January, 2023
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Recep Tayyip Erdoğan Üniversitesi, January, 2022
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Recep Tayyip Erdoğan Üniversitesi, December, 2021
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Recep Tayyip Erdoğan Üniversitesi, October, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of photovoltaic and photodetection characteristics in CdS/P3HT devices through Al-doping**
Törelİ S. B., Yılmaz S., Tomakin M., Polat İ., Bacaksız E.
MATERIALS SCIENCE & ENGINEERING B: SOLID-STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.309, no.117942, pp.1-14, 2024 (SCI-Expanded)
- II. **Analysis of CeO₂/SiO₂ double-layer thin film stack with antireflection effect for silicon solar cells**
Kanmaz İ., Tomakin M., Üzüm A.
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.35, no.1947, pp.1-9, 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. **Improving photovoltaic characteristics of CdS-based hybrid solar cells through Mn incorporation**
Doğan V., Yılmaz S., Tomakin M., Törelİ S. B., Polat İ., Bacaksız E.

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A: CHEMISTRY, vol.453, no.115678, pp.1-12, 2024 (SCI-Expanded)

- V. **Fabrication of Gold Thin Films on Cooled Glass Substrates**
Manır M., Genç G., Nevruzoğlu V., Tomakin M., Çetin A. E.
PLASMONICS, vol.19, no.2, pp.1-11, 2024 (SCI-Expanded)
- VI. **Performance assessment of oxygenated CdS films-based photodetector**
Polat İ., Yılmaz S., Küçükömeroğlu T., Tomakin M., Bacaksız E.
Materials Today Communications, vol.38, 2024 (SCI-Expanded)
- VII. **Improving Solar Cell Efficiency through Controlled Annealing Effects of TiO₂ Thin Films**
Kanmaz İ., Tomakin M.
Physica Status Solidi (A) Applications and Materials Science, vol.221, no.5, 2024 (SCI-Expanded)
- VIII. **Semi-conductive carbon from industrial tea waste biomass for a p-n junction**
Akgül G., Tomakin M., Erkaya H. H.
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-11, 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., Tomakin M., Karaca A., Küçükömeroğlu T., Bacaksız E.
Semiconductor Science and Technology, vol.39, no.2, 2024 (SCI-Expanded)
- X. **An Investigation on CdSeTe/CdTe Stacks Deposited by Evaporation: Impact of Halide Treatment Depending on the Applied Surface**
Çiriş A., Atasoy Y., Tomakin M., Bacaksız E.
Physica Status Solidi (A) Applications and Materials Science, vol.221, no.2, 2024 (SCI-Expanded)
- XI. **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., Olgar M. A., Küçükömeroğlu T., Bacaksız E., Tomakin M.
Sensors and Actuators A: Physical, vol.363, 2023 (SCI-Expanded)
- XII. **Enhancing Label-Free Biosensing With Cryogenic Temperature-Induced Plasmonic Structures**
Nevruzoglu V., TOMAKİN M., Manır M., Demir S., Beris F., Cetin A.
PLASMONICS, vol.18, no.6, pp.2437-2445, 2023 (SCI-Expanded)
- XIII. **Changing the conductivity type of ultrasonically sprayed ZnO thin films: comparison of the effects of Li, N, and B dopants**
Bayazıt T., Güner S. B., Tomakin M.
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.34, pp.1-16, 2023 (SCI-Expanded)
- XIV. **Anti-reflective effect of CeO₂ thin films produced by sol-gel method on crystalline silicon solar cells**
Kanmaz İ., TOMAKİN M.
Journal of Sol-Gel Science and Technology, vol.108, no.2, pp.361-367, 2023 (SCI-Expanded)
- XV. **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)
- XVI. **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 and Processing, vol.129, no.8, 2023 (SCI-Expanded)
- XVII. **CdSe thin films-based photodetector doped with Cu, In and Ga atoms: a comparative work**
Yılmaz S., POLAT İ., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
Applied Physics A: Materials Science and Processing, vol.129, no.8, 2023 (SCI-Expanded)
- XVIII. **Characterization of Cu(In,Ga)(Te,S)(2) thin films grown on stainless steel foil substrates**
KARACA A., Basol B. M., Olgar M. A., Buyuklimanli T., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.56, no.19, 2023 (SCI-Expanded)
- XIX. **Influence of deposition pressure of elemental Sn on structural, optical, electrical and schottky diode properties of SnS thin films grown by two-stage method**
Ciris A., Atasoy Y., TOMAKİN M., Olgar M. A.

- JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.34, no.14, 2023 (SCI-Expanded)
- XX. **Performance of Si-based solar cell utilizing optimized Al-doped ZnO films as TCO layer**
Altuntepe A., Erkan S., Hasret O., Yagmyrov A., Yazici D., TOMAKİN M., Olgar M. A., Zan R.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.34, no.1, 2023 (SCI-Expanded)
- XXI. **Deposition and characterization of the Ag nanoparticles on absorbable surgical sutures at the cryogenic temperatures**
Altuntas M., Beris F. S., Nevruzoglu V., Karan Y., Kanat A., Tomakin M.
APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, vol.129, pp.128-138, 2023 (SCI-Expanded)
- XXII. **Comparison of the impact of different chlorination treatments to ZnS and CdS thin films**
Ciris A., Atasoy Y., TOMAKİN M., BACAKSIZ E.
MICRO AND NANOSTRUCTURES, vol.170, 2022 (SCI-Expanded)
- XXIII. **The effect of ZnCl₂ and CdCl₂ treatment on ZnS/CdS junction partner on CdTe cell performance**
Ciris A., Atasoy Y., KARACA A., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.149, 2022 (SCI-Expanded)
- XXIV. **Fabrication of CdS nanospheres-based hybrid solar cells having increased efficiency**
Yilmaz S., Unverdi A., TOMAKİN M., Polat I., Bacaksiz E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.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., BACAKSIZ E.
SOLAR ENERGY, vol.234, pp.128-136, 2022 (SCI-Expanded)
- XXVI. **Hybrid transparent conductive electrode structure for solar cell application**
Altuntepe A., Olgar M. A., Erkan S., Hasret O., Kececi A. E., Kokbudak G., TOMAKİN M., Seyhan A., TURAN R., Zan R.
RENEWABLE ENERGY, vol.180, pp.178-185, 2021 (SCI-Expanded)
- XXVII. **Impact of in/ex situ annealing and reaction temperature on structural, optical and electrical properties of SnS thin films**
Olgar M. A., Ciri A., TOMAKİN M., Zan R.
JOURNAL OF MOLECULAR STRUCTURE, vol.1241, 2021 (SCI-Expanded)
- XXVIII. **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., Tomakin M., Bacaksiz E.
Materials Science in Semiconductor Processing, vol.128, 2021 (SCI-Expanded)
- XXIX. **Processing CdS- and CdSe-containing window layers for CdTe solar cells**
Ciris A., Basol B. M., Atasoy Y., Karaca A., Tomakin M., Kucukomeroglu T., Bacaksiz E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.54, no.21, 2021 (SCI-Expanded)
- XXX. **Deposition of CdSeTe alloys using CdTe-CdSe mixed powder source material in a close-space sublimation process**
Ciris A., Basol B. M., Atasoy Y., KARACA A., Kuckomeroglu T., TOMAKİN M., BACAKSIZ E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.7, pp.9685-9693, 2021 (SCI-Expanded)
- XXXI. **Phase transformation in Cu₂SnS₃ (CTS) thin films through pre-treatment in sulfur atmosphere**
Olgar M. A., Basol B. M., TOMAKİN M., Bacaksiz E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.8, pp.10018-10027, 2021 (SCI-Expanded)
- XXXII. **The investigation of stability of n-CdS/p-Cu₂S solar cells prepared by cold substrate method**
MANIR M., NEVRUZOĞLU V., TOMAKİN M.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.36, no.3, 2021 (SCI-Expanded)
- XXXIII. **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)

- XXXIV. **Transparent and conductive CdS:Ca thin films for optoelectronic applications**
Yilmaz S., POLAT İ., Tomakin M., BACAKSIZ E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.7, 2020 (SCI-Expanded)
- XXXV. **Use of the Cold Substrate Method for Biomaterials: The Structural and Biological Properties of the Ag Layers Deposited on Ti-6Al-4V**
DUYMUS Z., NOVRUZOGLU V., ATOS S. M., YUZUAK E., Tomakin M.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.29, no.5, pp.2909-2919, 2020 (SCI-Expanded)
- XXXVI. **Cold substrate method to prepare plasmonic Ag nanoparticle: deposition, characterization, application in solar cell**
NEVRUZOGLU V., BAL ALTUNTAS D., Tomakin M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.4, 2020 (SCI-Expanded)
- XXXVII. **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., Bacaksız E., Tomakin M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.13, pp.12612-12618, 2019 (SCI-Expanded)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **Fabrication and characterization of Au/n-ZnO/p-Si/Al sandwich device with Sol-gel spin coating method**
Keskenler E. F., KESKENLER M. F., Tomakin M., Nevruzoglu V.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.6, pp.6082-6087, 2019 (SCI-Expanded)
- XLI. **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, vol.30, no.6, pp.5662-5669, 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, vol.91, pp.90-96, 2019 (SCI-Expanded)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **Influence of pre-annealing Cu-Sn on the structural properties of CZTSe thin films grown by a two-stage process**
OLGAR M. A., BASOL B. M., Tomakin M., SEYHAN A., BACAKSIZ E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.88, pp.234-238, 2018 (SCI-Expanded)
- XLVII. **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)

- XLVIII. **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)
- XLIX. **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)
- L. **Role of the radio frequency magnetron sputtered seed layer properties on ultrasonic spray pyrolyzed ZnO thin films**
Tomakin M., Onuk Z., RUJISAMPHAN N., Shah S. I.
THIN SOLID FILMS, vol.642, pp.163-168, 2017 (SCI-Expanded)
- L.I. **Effects of Na doping on CdS thin films and n-CdS/p-Si solar cells via chemical bath deposition method**
NEVRUZOGLU V., Tomakin M., Keskenler E. F., Öztürk G.
JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.18, no.7, pp.494-500, 2017 (SCI-Expanded)
- L.II. **The investigation of magnetic levitation performances of single grain YBCO at different temperatures**
Guner S. B., Celik S., Tomakin M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.705, pp.247-252, 2017 (SCI-Expanded)
- L.III. **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.IV. **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.V. **Controllable growth and characterization of highly aligned ZnO nanocolumnar thin films**
ONU K Z., RUJISAMPHAN N., Murray R., Bah M., Tomakin M., Shah S. I.
APPLIED SURFACE SCIENCE, vol.396, pp.1458-1465, 2017 (SCI-Expanded)
- L.VI. **Physical properties of CdS:Ga thin films synthesized by spray pyrolysis technique**
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