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Publons / Web Of Science ResearcherID: A-7345-2018

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Education Information

Doctorate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1998 - 2003

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1996 - 1998

Undergraduate, Eskisehir Osmangazi University, Fen Edebiyat Fakültesi, Fizik, Turkey 1992 - 1996

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, ZnO Filmlerinin Bazı Elektrik, Optik, Yapısal ve Yüzeysel Özellikleri Üzerine Kalay Katkısının Etkisi , Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik, 2003

Postgraduate, Ultrasonik Spray Pyrolysis Metodu İle Farklı Taban Sıcaklıklarında Elde Edilen CdS Filmlerinin Bazı Fiziksel Özelliklerinin İncelenmesi , Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik, 1998

Research Areas

Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Magnetic Properties and Materials, Optoelectronic Materials and Devices, Semiconducting Materials and Devices, Solar energy, Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Natural Sciences

Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, Fizik, 2015 - Continues

Associate Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, Fizik, 2007 - 2015

Associate Professor, Eskisehir Osmangazi University, Fen Edebiyat Fakültesi, Fizik, 2007 - 2007

Research Assistant PhD, Eskisehir Osmangazi University, Fen Edebiyat Fakültesi, Fizik, 2003 - 2007

Research Assistant, Eskisehir Osmangazi University, Fen Edebiyat Fakültesi, Fizik, 1997 - 2003

Advising Theses

BİLGİN V., Fotovoltaik Güneş Hücrelerinde Kullanılabilecek n-CdS:F Ve p-PbS:Ag İnce Filmlerinin Üretimi Ve Karakterizasyonu, Doctorate, E.Sarıca(Student), 2017

BİLGİN V., Fotovoltaik Uygulamalar için Ultrasonik Spray Pyrolysis Tekniği ile Üretilen CdO:Pb ve CuO:In İnce Filmlerin Karakterizasyonu, Doctorate, B.Demirselçuk(Student), 2017

BİLGİN V., Ultrasonik Kimyasal Püskürtme ile Üretilen Vanadyum Oksit Filmleri: Taban Sıcaklığının Etkisi, Postgraduate, H.Hakan(Student), 2016

BİLGİN V., Fotovoltaik Güneş Gözesi Uygulamaları İçin Cd_{1-x}Zn_xS İnce Filmlerinin Büyütülmesi ve Karakterizasyonu, Postgraduate, T.Yapan(Student), 2014

BİLGİN V., Ultrasonik Kimyasal Püskürtme Tekniği ile Vanadyum Katkılı ZnO Filmlerinin Büyütülmesi ve Karakterizasyonu, Postgraduate, E.Sarıca(Student), 2012

BİLGİN V., ZnO İnce Filmleri: Co Katkısının Etkisi, Postgraduate, B.Demirselçuk(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Non-stoichiometric effect and disorder in as-prepared Cu₂ZnSnS₄ films deposited at different temperatures by ultrasonic spray pyrolysis**
Gunes İ., Bilgin V., Sarica E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.152, pp.107120, 2022 (SCI-Expanded)
- II. **Optimization of chemically sprayed ZnS films by Mn doping**
DEMİRSELÇUK B., Kus E., KÜÇÜKARSLAN A., Sarica E., AKYÜZ İ., BİLGİN V.
Physica B: Condensed Matter, vol.622, 2021 (SCI-Expanded)
- III. **Ultrasonically sprayed cobalt oxide thin films: Enhancing of some physical properties by nickel doping**
Kus E., KÜÇÜKARSLAN A., DEMİRSELÇUK B., Sarica E., AKYÜZ İ., BİLGİN V.
Materials Letters, vol.297, 2021 (SCI-Expanded)
- IV. **Sol-gel derived ZnO:Sn thin films and fabrication of n-ZnO:Sn/p-Si heterostructure**
Sarica E., GÜNEŞ İ., AKYÜZ İ., BİLGİN V., ERTÜRK K.
OPTICAL MATERIALS, vol.118, 2021 (SCI-Expanded)
- V. **Improvement of structural, optical and magnetic properties of cobalt oxide thin films by doping with iron**
KÜÇÜKARSLAN A., Kus E., Sarica E., AKYÜZ İ., BİLGİN V., DEMİRSELÇUK B.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.7, 2021 (SCI-Expanded)
- VI. **Phase transition of ultrasonically sprayed VO_x thin films: The role of substrate temperature**
Sarica E., BİLGİN V., AKYÜZ İ.
OPTİK, vol.228, 2021 (SCI-Expanded)
- VII. **Characterization of CdS films and CdS/Si heterojunctions prepared by ultrasonic spray pyrolysis and their response to light**
BİLGİN V., Sarica E., DEMİRSELÇUK B., ERTÜRK K.
PHYSICA B-CONDENSED MATTER, vol.599, 2020 (SCI-Expanded)
- VIII. **Iron doped ZnO thin films deposited by ultrasonic spray pyrolysis: structural, morphological, optical, electrical and magnetic investigations**
BİLGİN V., Sarica E., DEMİRSELÇUK B., Turkyılmaz S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.20, pp.17542-17551, 2018 (SCI-Expanded)

- IX. **Iron doped ZnO thin films deposited by ultrasonic spray pyrolysis: structural, morphological, optical, electrical and magnetic investigations**
BİLGİN V., Sarıca E., DEMİRSELÇUK B., TURKYILMAZ S.
Journal of Materials Science: JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.20, pp.17542-17551, 2018 (SCI-Expanded)
- X. **Effect of Pb:S molar ratio in precursor solution on the properties of lead sulphide thin films by ultrasonic spray pyrolysis**
Sarıca E., BİLGİN V.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.71, pp.42-49, 2017 (SCI-Expanded)
- XI. **Study of some physical properties of ultrasonically spray deposited silver doped lead sulphide thin films**
Sarıca E., BİLGİN V.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.68, pp.288-294, 2017 (SCI-Expanded)
- XII. **Structural, optical, electrical and magnetic studies of ultrasonically sprayed ZnO thin films doped with vanadium**
Sarıca E., BİLGİN V.
SURFACE & COATINGS TECHNOLOGY, vol.286, pp.1-8, 2016 (SCI-Expanded)
- XIII. **Ultrasonically sprayed ZnO:Co thin films: Growth and characterization**
DEMİRSELÇUK B., BİLGİN V.
APPLIED SURFACE SCIENCE, vol.273, pp.478-483, 2013 (SCI-Expanded)
- XIV. **Some physical properties of In doped copper oxide films produced by ultrasonic spray pyrolysis**
Kose S., Ketenci E., BİLGİN V., Atay F., Akyuz I.
CURRENT APPLIED PHYSICS, vol.12, no.3, pp.890-895, 2012 (SCI-Expanded)
- XV. **Growth, Electrical, and Optical Study of ZnS:Mn Thin Films**
OZUTOK F., Erturk K., BİLGİN V.
ACTA PHYSICA POLONICA A, vol.121, no.1, pp.221-223, 2012 (SCI-Expanded)
- XVI. **Study of Ultrasonically Sprayed ZnO Films: Thermal Annealing Effect**
OZUTOK F., DEMİRSELÇUK B., SARICA E., TURKYILMAZ S., BİLGİN V.
ACTA PHYSICA POLONICA A, vol.121, no.1, pp.53-55, 2012 (SCI-Expanded)
- XVII. **Influence of Annealing Temperature on the Electrical and Optical Properties of CdS Thin Films**
ELMAS S., ÖZCAN S., ÖZDER S., BİLGİN V.
ACTA PHYSICA POLONICA A, vol.121, no.1, pp.56-58, 2012 (SCI-Expanded)
- XVIII. **Optical, structural and surface characterization of CdO:Mg films**
Atay F., Akyuz I., Kose S., Ketenci E., BİLGİN V.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.22, no.5, pp.492-498, 2011 (SCI-Expanded)
- XIX. **Optical, structural and surface characterization of ultrasonically sprayed CdO:F films**
Akyuz I., Kose S., Ketenci E., BİLGİN V., Atay F.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.5, pp.1947-1952, 2011 (SCI-Expanded)
- XX. **Optical characterization of SnO₂:F films by spectroscopic ellipsometry**
Atay F., BİLGİN V., Akyuz I., Ketenci E., Kose S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.356, pp.2192-2197, 2010 (SCI-Expanded)
- XXI. **Electrical, structural and surface properties of fluorine doped tin oxide films**
BİLGİN V., Akyuz I., Ketenci E., Kose S., Atay F.
APPLIED SURFACE SCIENCE, vol.256, no.22, pp.6586-6591, 2010 (SCI-Expanded)
- XXII. **Optical characterization and determination of carrier density of ultrasonically sprayed CdS:Cu films**
Kose S., Atay F., BİLGİN V., Akyuz I., Ketenci E.
APPLIED SURFACE SCIENCE, vol.256, no.13, pp.4299-4303, 2010 (SCI-Expanded)
- XXIII. **Preparation and characterization of aluminum-incorporated cadmium oxide films**
Akyuz I., Kose S., Atay F., BİLGİN V.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.13, no.2, pp.109-114, 2010 (SCI-Expanded)
- XXIV. **Preparation and Characterization of Ultrasonically Sprayed Zinc Oxide Thin Films Doped with**

Lithium

Bilgin V.

JOURNAL OF ELECTRONIC MATERIALS, vol.38, no.9, pp.1969-1978, 2009 (SCI-Expanded)

- XXV. **Growth and Characterization of Zn-Incorporated Copper Oxide Films**
Engin M., Atay F., Kose S., BİLGİN V., Akyuz I.
JOURNAL OF ELECTRONIC MATERIALS, vol.38, no.6, pp.787-796, 2009 (SCI-Expanded)
- XXVI. **In doped CdO films: Electrical, optical, structural and surface properties**
Kose S., Atay F., BİLGİN V., Akyuz I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.12, pp.5260-5266, 2009 (SCI-Expanded)
- XXVII. **Some physical properties of copper oxide films: The effect of substrate temperature**
Kose S., Atay F., BİLGİN V., Akyuz I.
MATERIALS CHEMISTRY AND PHYSICS, vol.111, pp.351-358, 2008 (SCI-Expanded)
- XXVIII. **Prediction of optical parameters of Sn doped CdO films using neural network**
Erturk K., Kose S., Atay F., Bilgin V., AKYUZ I., HACIİSMAİLOĞLU M. C., KÜÇÜK İ., DEREBAŞI N.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.10, no.2, pp.335-338, 2008 (SCI-Expanded)
- XXIX. **The investigation of Cu doped CdS films produced by ultrasonic spray pyrolysis technique**
Atay F., Bilgin V., Akyuz I., Ketenci E., Kose S., Erturk K.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.10, no.2, pp.331-334, 2008 (SCI-Expanded)
- XXX. **The effect of annealing temperature on the structural and electrical properties of ultrasonically sprayed cadmium oxide films**
Akyuz I., Kose S., Atay F., Bilgin V.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.9, no.12, pp.3812-3815, 2007 (SCI-Expanded)
- XXXI. **Optical, structural and electrical properties of ultrasonically sprayed copper oxide films: the effect of Mg incorporation**
ATAY F., Bilgin V., AKYUZ I., KOSE S.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.9, no.11, pp.3604-3608, 2007 (SCI-Expanded)
- XXXII. **Some physical properties of ultrasonically sprayed tin oxide films: the effect of the substrate temperature**
ATAY F., DEMİR M. K., KOSE S., Bilgin V., AKYUZ I.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.9, no.7, pp.2217-2226, 2007 (SCI-Expanded)
- XXXIII. **Some physical properties of chemically sprayed Zn_{1-x}Cd_xS semiconductor films**
AKYUZ I., KOSE S., ATAY F., Bilgin V.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.10, pp.103-111, 2007 (SCI-Expanded)
- XXXIV. **The optical, structural and morphological properties of ultrasonically sprayed ZnO : Mn films**
AKYUZ I., KOSE S., ATAY F., Bilgin V.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.21, no.12, pp.1620-1626, 2006 (SCI-Expanded)
- XXXV. **Characterization of Mn-incorporated CdO films grown by ultrasonic spray pyrolysis**
Bilgin V., Akyuz I., Kose S., Atay F.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.21, no.5, pp.579-585, 2006 (SCI-Expanded)
- XXXVI. **The effect of substrate temperature on the structural and some physical properties of ultrasonically sprayed US films**
Bilgin V., Kose S., Atay F., Akyuz I.
MATERIALS CHEMISTRY AND PHYSICS, vol.94, no.1, pp.103-108, 2005 (SCI-Expanded)
- XXXVII. **The effect of Sn concentration on some physical properties of zinc oxide films prepared by ultrasonic spray pyrolysis**
Bilgin V., Kose S., Atay F., Akyuz I.
JOURNAL OF MATERIALS SCIENCE, vol.40, no.8, pp.1909-1915, 2005 (SCI-Expanded)
- XXXVIII. **Wide-bandgap modification of polycrystalline ZnO using Sn component on the basis of developing quantum-well hetero-structure**
Yildirim T., Gur E., Tuzemen S., Bilgin V., Kose S., Atay F., Akyuz I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.27, pp.290-295, 2005 (SCI-Expanded)

- XXXIX. **The effect of Zn concentration on some physical properties of tin oxide films obtained by ultrasonic spray pyrolysis**
Bilgin V., Kose S., Atay F., Akyuz I.
MATERIALS LETTERS, vol.58, no.29, pp.3686-3693, 2004 (SCI-Expanded)
- XL. **Some physical properties of CdO thin films used as window material in photovoltaic solar cells**
KOSE S., ATAY F., Bilgin V., AKYUZ D.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.1, no.3, pp.353-364, 2004 (SCI-Expanded)
- XLI. **The effect of In doping on some physical properties of CdS films**
Atay F., Bilgin V., Akyuz I., Kose S.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.6, no.4, pp.197-203, 2003 (SCI-Expanded)
- XLII. **CdS : Ni films obtained by ultrasonic spray pyrolysis: effect of the Ni concentration**
Atay F., Kose S., Bilgin V., Akyuz I.
MATERIALS LETTERS, vol.57, pp.3461-3472, 2003 (SCI-Expanded)
- XLIII. **Electrical, Optical, Structural and Morphological Properties of NiS Films**
ATAY F., KOSE S., BİLGİN V., AKYUZ I.
Turkish Journal of Physics, vol.27, pp.285-291, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Enhancing Physical Properties: Chromium-Doped Zinc Oxide Thin Films Deposited by Ultrasonic Spray Pyrolysis**
Gunes İ., Sarica E., Bilgin V.
Journal of Balkan Science and Technology, no.2(2), pp.62-70, 2023 (Peer-Reviewed Journal)
- II. **Preparation and Characterization of Nickel-Doped Zinc Sulphide Thin Films for Solar Cell Applications**
Küçükarslan A., Demirselçuk B., Kuş E., Akyüz İ., Bilgin V.
Preparation and Characterization of Nickel-Doped Zinc Sulphide Thin Films for Solar Cell Applications, vol.7, no.4, pp.20-29, 2021 (Conference Book)
- III. **Influence of Sn Doping on CdS Thin Film Grown by Ultrasonic Spray Pyrolysis**
EYGİ Z. D., Demirselçuk B., BİLGİN V.
International Journal of Thin Films Science and Technology, vol.5, pp.103-106, 2016 (Peer-Reviewed Journal)
- IV. **Influence of Sn Doping on Cds Thin Film Grown by Ultrasonic Spray Pyrolysis**
EYGİ Z., DEMİRSELÇUK B., BİLGİN V.
International Journal of Thin Films Science and Technology, vol.5, pp.103-106, 2016 (Peer-Reviewed Journal)
- V. **Electrical and Optical Properties of Ultrasonically Sprayed Lithium Doped Tin Oxide Films**
KETENCI E., KOSE S., ATAY F., BİLGİN V., AKYUZ I.
Balkan Physics Letters, vol.1, pp.6-10, 2008 (Peer-Reviewed Journal)
- VI. **Optical and Surface Properties of Ultrasonically Sprayed CdS:F Films**
AKYUZ I., KETENCI E., KOSE S., ATAY F., BİLGİN V.
Balkan Physics Letters, vol.1, pp.1-5, 2008 (Peer-Reviewed Journal)
- VII. **The Investigation of Structural and Surface Properties of SnO₂:Li Films Produced by Ultrasonic Spray Pyrolysis Technique**
KOSE S., ATAY F., BİLGİN V., AKYUZ I., KETENCI E.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.12, no.2, pp.85-90, 2008 (Peer-Reviewed Journal)
- VIII. **Some Physical Properties of CdS:Sn Films by Ultrasonic Spray Pyrolysis Technique**
KOSE S., ATAY F., BİLGİN V., AKYUZ I.
Anadolu University Journal of Science and Technology, vol.5, no.2, pp.237-243, 2004 (Peer-Reviewed Journal)
- IX. **Current transport mechanisms in undoped and Ni-doped CdS thin films**
ATAY F., KOSE S., BİLGİN V., AKYUZ I.

Balkan Physics Letters, vol.10, no.2, pp.70-78, 2002 (Peer-Reviewed Journal)

X. The Investigation of The Activation Energies of CdS Films

KOSE S., ATAY F., BİLGİN V., AKYUZ I.

Fırat Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.13, no.1, pp.59-63, 2001 (Peer-Reviewed Journal)

XI. The Investigation of Electrical and Optical Properties of ZnO and ZnO:Sn Films Obtained by Ultrasonic Spray Pyrolysis

AKYUZ I., ATAY F., BİLGİN V., KOSE S.

Balkan Physics Letters, vol.1, pp.1-5, 2001 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Unleashing the Photovoltaic Potential: Optimizing Zn-Doped Co₃O₄ Films via Ultrasonic Spray Pyrolysis

GÜNEŞ İ., SARICA E., AKYÜZ İ., KÜÇÜKARSLAN A., BİLGİN V.

6th International Organic Electronic Material Technology Conference (OEMT-2024), Çanakkale, Turkey, 22 - 25 May 2024

II. The Effect of Sulfurization Temperature on As-prepared SnS Films Deposited by Ultrasonic Spray Pyrolysis

GÜNEŞ İ., DEMİRSELÇUK B., SARICA E., AKYÜZ İ., KÜÇÜKARSLAN A., BİLGİN V.

6th International Organic Electronic Material Technology Conference (OEMT-2024), Çanakkale, Turkey, 22 - 25 May 2024

III. STRUCTURAL AND OPTICAL PROPERTIES OF TUNGSTEN OXIDE THIN FILMS: EFFECT OF ANNEALING TIME

KÜÇÜKARSLAN A., GÜNEŞ İ., SARICA E., AKYÜZ İ., BİLGİN V.

6nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'21), Nevşehir/Kapadokya, Turkey, 26 - 28 November 2021

IV. CHEMICALLY SPRAYED SnO₂:F (FTO) THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS

KÜÇÜKARSLAN A., SARICA E., GÜNEŞ İ., AKYÜZ İ., ÖZDER S., BİLGİN V.

6nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'21), Nevşehir/Kapadokya, Turkey, 26 - 28 November 2021

V. Structural And Optical Properties Of Iron-Cobalt Co-Doped Cadmium Oxide Thin Films

SARICA E., GÜNEŞ İ., DEMİRSELÇUK B., KUŞ E., KÜÇÜKARSLAN A., BİLGİN V.

Turkish Physical Society 37th International Physical Congress (TPS-37), Muğla, Turkey, 1 - 05 September 2021

VI. Ultrasonically sprayed Ag doped SnS films: Optical, structural and morphological properties

KÜÇÜKARSLAN A., GÜNEŞ İ., SARICA E., AKYÜZ İ., BİLGİN V., ALDATMAZ T.

Turkish Physical Society 37th International Physical Congress (TPS-37), Muğla, Turkey, 1 - 05 September 2021

VII. Ultrasonically spray deposited tin-doped indium oxide thin films for photovoltaic solar cell application

GÜNEŞ İ., SARICA E., AKYÜZ İ., KÜÇÜKARSLAN A., ÖZDER S., BİLGİN V.

Turkish Physical Society 37th International Physical Congress (TPS-37), Muğla, Turkey, 1 - 05 September 2021

VIII. Effect of iron doping on structural and electrical properties of spray-deposited CdO thin films

KUŞ E., SARICA E., GÜNEŞ İ., DEMİRSELÇUK B., KÜÇÜKARSLAN A., BİLGİN V.

Turkish Physical Society 37th International Physical Congress (TPS-37), Muğla, Turkey, 1 - 05 September 2021

IX. Ultrasonic spray pyrolysed tin sulfide films: effect of spraying solution flow rate

SARICA E., GÜNEŞ İ., KÜÇÜKARSLAN A., BİLGİN V.

Turkish Physical Society 37th International Physical Congress (TPS-37), Muğla, Turkey, 1 - 05 September 2021

X. Structural, Optical and Electrical Properties of CZTS Layers by Ultrasonic Spray Pyrolysis For Photovoltaic Applications

GÜNEŞ İ., BİLGİN V., SARICA E.

Turkish Physical Society 36th International Physical Congress (TPS-36), İstanbul, Turkey, 1 - 05 September 2020

- XI. **SnS Thin Films Deposited By Ultrasonic Spray Pyrolysis: Structural, Optical And Electrical Analyzes**
SARICA E., GÜNEŞ İ., KÜÇÜKARSLAN A., BİLGİN V.
Turkish Physical Society 36th International Physical Congress (TPS-36), İstanbul, Turkey, 1 - 05 September 2020
- XII. **Effect of Substrate Temperature on the Physical Properties of NiO Thin Films**
SARICA E., GÜNEŞ İ., KÜÇÜKARSLAN A., BİLGİN V.
Turkish Physical Society 35th International Physical Congress (TPS-35), 4 - 08 September 2019
- XIII. **Surface, Optical and Electrical Properties of Sn₁-XPb_xS Thin Films**
GÜNEŞ İ., SARICA E., KÜÇÜKARSLAN A., BİLGİN V.
Turkish Physical Society 35th International Physical Congress (TPS-35), 4 - 08 September 2019
- XIV. **Cr Doped ZnO Thin Films Deposited By Ultrasonic Spray Pyrolysis: Photoluminescence Properties**
GÜNEŞ İ., SARICA E., BİLGİN V.
Turkish Physical Society 35th International Physical Congress (TPS-35), 4 - 08 September 2019
- XV. **Sol-Gel Deposited Sn Doped ZnO Thin Films: Morphological And Optical Properties**
SARICA E., GÜNEŞ İ., AKYÜZ İ., BİLGİN V.
Turkish Physical Society 35th International Physical Congress (TPS-35), 4 - 08 September 2019
- XVI. **Investigation Of Structural, Optical And Electrical Properties Of Undoped And Cr Doped ZnO Thin Films**
GÜNEŞ İ., SARICA E., BİLGİN V.
Turkish Physical Society 34th International Physical Congress, Muğla, Turkey, 5 - 09 September 2018
- XVII. **Effect of Zn/S molar ratio on the physical properties of spray-pyrolysed ZnS thin films for photovoltaic applications**
DEMİRSELÇUK B., BİLGİN V., ÖZDER S., SARICA E.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017
- XVIII. **Substrate temperature effect on the structural, morphological, optical and electrical properties of spray-deposited zinc sulphide thin films**
DEMİRSELÇUK B., BİLGİN V., SARICA E., ÖZDER S.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017
- XIX. **Fotovoltaik Uygulamalar için CdTe:Cu İnce Filmlerinin Fiziksel Özelliklerinin İncelenmesi**
DEMİRSELÇUK B., BİLGİN V., ERTÜRK K.
V. Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Turkey, 12 - 13 May 2016
- XX. **Optical, Structural and Surface Characterization of Li Doped CdTe Thin Films**
DEMİRSELÇUK B., BİLGİN V.
Third European Conference on Renewable Energy Systems, 7 - 10 October 2015
- XXI. **Electrical properties of Sn doped CdS thin films grown by ultrasonic spray pyrolysis technique**
DEMİRSELÇUK B., BİLGİN V.
9th International Physics Conference of the Balkan Physical Union, 24 - 27 August 2015
- XXII. **Ultrasonically sprayed ZnO:Fe diluted magnetic semiconductor thin films: influence of Fe content on room temperature ferromagnetism**
DEMİRSELÇUK B., BİLGİN V., SARICA E.
11th Nanoscience and Nanotechnology Conference, 22 - 25 June 2015
- XXIII. **Fotovoltaik Güneş Gözesi Uygulamaları İçin CdO İnce Filmlerin Sol-Gel Spin Kaplama Yöntemi İle Büyütülmesi Ve Fiziksel Özellikleri Üzerine Tavlamanın Etkisi**
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