

Prof. FERHUNDE ATAY

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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), Turkey 1996 - 2002

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), Turkey 1994 - 1997

Undergraduate, Anadolu University, Faculty Of Arts And Sciences, Fizik Pr., Turkey 1990 - 1994

Dissertations

Doctorate, Cd_{1-x}NixS filmlerinin elektriksel, optiksel, yapısal ve yüzeysel özelliklerinin incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), 2002

Postgraduate, Spray pyrolysis metodu ile elde edilen Cd_{1-x}InxS filmlerinin bazı fiziksel özelliklerinin incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), 1997

Research Areas

Waste Water Collection and Treatment, Water Pollution and Control, Semiconductor and Superconductor Materials, Optical Properties, Physical Properties, Electrical and Magnetic Properties, Chemical and Electrochemical Properties, Thermal Treatment, Plating, Material Characterization, Nanomaterials, Physics, Physical Chemistry, 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, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Optical Properties, Spectroscopy of Matter, Raman Spectroscopy, Spectroscopical Methods, Electrochemistry, Catalysis

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2011 - Continues

Associate Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2006 - 2011

Assistant Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2003 - 2006

Research Assistant, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 1994 - 2003

Academic and Administrative Experience

Head of Department, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2022 - Continues
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2019 - Continues
Head of Department, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2019 - 2022
Ethics Committee Member, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2016 - 2020
Head of Department, Eskisehir Osmangazi University, Fizik Bölümü, 2013 - 2016
Fakülte Kurulu Üyesi, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2013 - 2016
Head of Department, Eskisehir Osmangazi University, Fizik Bölümü, 2013 - 2016
Director of the Center, Eskisehir Osmangazi University, FEN FAKÜLTESİ, 2011 - 2014

Advising Theses

Atay F., Süperkapasitör Uygulamaları için Co içeren NiS Temelli Filmlerin Üretimi Ve Karakterizasyonu, Postgraduate, H.YALDIZ(Student), 2025
Atay F., Boya İle Aktiflenmiş Güneş Hücreleri İçin Ni İçeren CoS Temelli Karşıt Elektrotların Üretimi Ve Karakterizasyonu, Postgraduate, A.CAN(Student), 2025
Atay F., Boya Duyarlı Güneş Hücreleri İçin Hidrotermal Yöntem İle Üretilen ZnO ve AZO Nanoyapılı Filmlerin Elektrokimyasal ve Korozyon Özellikleri, Doctorate, O.GÜLTEPE(Student), 2024
Atay F., Fotovoltaik Güneş Hücresi Amaçlı Cu₂SnS₃ Soğurucu Tabakalarının Üretimi ve Karakterizasyonu, Doctorate, E.KETENCİ(Student), 2022
Atay F., Sol-jel döndürmeli kaplama tekniği ile tio₂ filmlerinin üretimi ve karakterizasyonu, Postgraduate, D.DURMAZ(Student), 2019
ATAY F., Ultrasonik kimyasal püskürtme tekniği ile üretilen TiO₂ filmlerinin yapısal, optik, yüzey ve fotokatalitik özellikleri üzerine farklı ortamlarda tavlama işleminin etkisi, Doctorate, M.SÖYLEYİCİ(Student), 2018
Atay F., ZnO filmlerinin bazı fiziksel özellikleri üzerine Co katkısının etkisi, Doctorate, O.GENÇYILMAZ(Student), 2013
ATAY F., Ir katkı ZnO filmlerinin üretilmesi ve bazı fiziksel özelliklerinin incelenmesi, Postgraduate, M.SÖYLEYİCİ(Student), 2011
ATAY F., CdO: F filmlerinin üretimi ve karakterizasyonu, Postgraduate, E.KETENCİ(Student), 2010
ATAY F., CuO:Zn filmlerinin ultrasonik püskürtme tekniği ile ve bazı fiziksel özelliklerinin incelenmesi, Postgraduate, M.ENGİN(Student), 2006
ATAY F., SnO₂ filmlerinin bazı fiziksel özellikleri üzerine taban sıcaklığının etkisi, Postgraduate, M.DEMİR(Student), 2005

Jury Memberships

Doctoral Examination, Doctoral Examination, Eskisehir Osmangazi Üniversitesi, January, 2021
Doctoral Examination, Doctoral Examination, Eskisehir Osmangazi Üniversitesi, January, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskisehir Osmangazi Üniversitesi, January, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskisehir Osmangazi Üniversitesi, December, 2020
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Eskisehir Osmangazi Üniversitesi, December, 2020
Associate Professor Exam, Associate Professor Exam, Eskisehir Osmangazi Üniversitesi, December, 2020
Associate Professor Exam, Associate Professor Exam, Eskisehir Osmangazi Üniversitesi, August, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskisehir Osmangazi Üniversitesi, August, 2019
Associate Professor Exam, Associate Professor Exam, Eskisehir Osmangazi Üniversitesi, July, 2019

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Eskişehir Osmangazi Üniversitesi, June, 2018
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Eskişehir Osmangazi Üniversitesi, May, 2018
Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, May, 2017
Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, May, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Osmangazi Üniversitesi, June, 2016
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Osmangazi Üniversitesi, June, 2016
Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, May, 2016
Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, May, 2016
Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, May, 2016
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Osmangazi Üniversitesi, September, 2014
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Osmangazi Üniversitesi, April, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of structural, optical, surface, electrochemical and corrosion properties of ZnO and AZO nanorod arrays for dye absorption applications**
Gultepe O., Atay F.
Optical Materials, vol.154, 2024 (SCI-Expanded)
- II. **Binary ZnS–ZnO films as an alternative buffer layer for solar cell applications**
Gençyılmaz O., Akyüz İ., Atay F.
Applied Physics A: Materials Science and Processing, vol.130, no.4, 2024 (SCI-Expanded)
- III. **An effective approach for hydrothermal synthesis of ZnO nanorod arrays activated under UV/Vis light: Different supporting ligands for hydrothermal precursor solutions**
Gultepe O., Atay F., Dikmen Z.
MATERIALS CHEMISTRY AND PHYSICS, vol.307, 2023 (SCI-Expanded)
- IV. **Hydrothermal synthesis of ZnO nanostructures for environmental applications: the role of different supporting ligands**
Gultepe O., Atay F., Dikmen Z.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.129, no.8, 2023 (SCI-Expanded)
- V. **Role of Ir incorporation on structural, surface, optical, and electrical properties of ultrasonically produced ZnO films**
Cergel M. S., Atay F.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.59, no.2, pp.437-447, 2023 (SCI-Expanded)
- VI. **Al and B co-doped ZnO samples as an alternative to ITO for transparent electronics applications**
Gultepe O., Atay F.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.18, pp.15039-15053, 2022 (SCI-Expanded)
- VII. **Structural, optical, surface, and photocatalytic properties of SnO₂ films produced by ultrasonic spray pyrolysis**
Atay F., Akyüz İ.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.102, no.2, pp.303-312, 2022 (SCI-Expanded)
- VIII. **Structural, optical and surface properties of sol-gel-derived boron-doped ZnO films for photocatalytic applications**
Atay F., Gultepe O.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.2, 2022 (SCI-Expanded)
- IX. **The effect of Al element on structural, optical, electrical, surface and photocatalytic properties of**

Sol-gel derived ZnO films

Gultepe O., Atay F.

APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.1, 2022 (SCI-Expanded)

- X. **The effect of spinning cycle on structural, optical, surface and photocatalytic properties of sol-gel derived ZnO films**
Atay F., Gultepe O.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.100, no.2, pp.299-309, 2021 (SCI-Expanded)
- XI. **The effect of sulphur amount in sulphurization stage on secondary phases in Cu₂SnS₃(CTS) films**
Sozak I. M. S., Yorulmaz U., Atay F., Akyüz İ.
CURRENT APPLIED PHYSICS, vol.26, pp.64-71, 2021 (SCI-Expanded)
- XII. **Production and characterization of Cu₂SnS₃ films for solar cell applications: The effect of the sulfurization temperature on CuS secondary phase**
Ketenci Ozsoy E., Atay F., Buyukgungor O.
SOLAR ENERGY, vol.214, 2021 (SCI-Expanded)
- XIII. **Structural, Optical and Surface Properties of Multilayer Anatase-TiO₂ Films Grown by Sol-Gel Spin Coating Technique**
Atay F., Durmaz D.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.9, pp.5542-5551, 2020 (SCI-Expanded)
- XIV. **Production and characterization of CZTS films: On the role of H₂S flow rate**
Akyüz İ., Atay F., Aydin R., Köse S.
SOLAR ENERGY, vol.194, pp.709-715, 2019 (SCI-Expanded)
- XV. **Characterization of ZnO-SnO₂ oxide systems produced by ultrasonic spray pyrolysis**
Atay F., Akyüz İ., Durmaz D., Köse S.
SOLAR ENERGY, vol.193, pp.666-675, 2019 (SCI-Expanded)
- XVI. **The effect of the structural, optical, and surface properties of anatase-TiO₂ film on photocatalytic degradation of methylene blue organic contaminant**
Cergel M. S., Demir E., Atay F.
IONICS, vol.25, no.9, pp.4481-4492, 2019 (SCI-Expanded)
- XVII. **The role of the annealing process in different gas environments on the degradation of the methylene blue organic pollutant by brookite-TiO₂ photocatalyst**
Cergel M. S., Atay F.
IONICS, vol.25, no.8, pp.3823-3836, 2019 (SCI-Expanded)
- XVIII. **Production and Characterization of (004) Oriented Single Anatase TiO₂ Films**
Atay F., Akyüz İ., Cergel M. S., Erdogan B.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.2, pp.1601-1610, 2018 (SCI-Expanded)
- XIX. **On the role of Al in ultrasonically sprayed ZnO films**
Kurtaran S., Aldag S., Ofoglu G., Akyüz İ., Atay F.
Materials Chemistry and Physics, vol.185, pp.137-142, 2017 (SCI-Expanded)
- XX. **Transparent conductive ZnO thin films grown by chemical spray pyrolysis: the effect of Mg**
Kurtaran S., Aldag S., Ofoglu G., Akyüz İ., Atay F.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.27, no.8, pp.8478-8485, 2016 (SCI-Expanded)
- XXI. **Photoluminescence, ellipsometric, optical and morphological studies of sprayed Co-doped ZnO films**
Gencyilmaz O., Atay F., Akyüz İ.
MODERN PHYSICS LETTERS B, vol.30, no.15, 2016 (SCI-Expanded)
- XXII. **On the dual role of ZnO in zinc-borate glasses**
Colak S., Akyüz İ., Atay F.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.432, pp.406-412, 2016 (SCI-Expanded)
- XXIII. **The Effect of Co Doping on ZnO Films: Structural, Morphological Characterization and Hall Effect Measurements**
GENÇYILMAZ O., Atay F., AKYÜZ İ.

- JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.10, no.6, pp.799-805, 2015 (SCI-Expanded)
- XXIV. **Synthesis, characterization and ellipsometric study of ultrasonically sprayed Co₃O₄ films**
Gencyilmaz O., Taskopru T., Atay F., Akyüz İ.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.121, no.1, pp.245-254, 2015 (SCI-Expanded)
- XXV. **Ellipsometric Investigation of Optical Parameters and Characterization of Spray Pyrolysis-Derived ZnO Films**
Gencyilmaz O., Atay F., Akyüz İ.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.9, pp.4247-4254, 2015 (SCI-Expanded)
- XXVI. **Production and characterization of iridium oxide films by ultrasonic chemical spray pyrolysis**
Gencyilmaz O., Atay F., Akyüz İ.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.17, pp.395-402, 2015 (SCI-Expanded)
- XXVII. **Influence of Thermal Process on Physical Properties of ZnO Films Prepared by Spray Pyrolysis**
Gencyilmaz O., Atay F., Akyüz İ.
ACTA PHYSICA POLONICA A, vol.126, no.6, pp.1331-1337, 2014 (SCI-Expanded)
- XXVIII. **Characterization of chemically sprayed CdO films on borate and phosphate glass substrates produced by melt-quenching technique**
Colak S., Erdogan B., AKYÜZ İ., Atay F.
MATERIALS CHEMISTRY AND PHYSICS, vol.138, no.1, pp.327-332, 2013 (SCI-Expanded)
- XXIX. **Evaluation of optical parameters and characterization of ultrasonically sprayed MgO films by spectroscopic ellipsometry**
Kurtaran S., AKYÜZ İ., Atay F.
APPLIED SURFACE SCIENCE, vol.265, pp.709-713, 2013 (SCI-Expanded)
- XXX. **Some physical properties of In doped copper oxide films produced by ultrasonic spray pyrolysis**
Kose S., Ketenci E., Bilgin V., Atay F., AKYÜZ İ.
CURRENT APPLIED PHYSICS, vol.12, no.3, pp.890-895, 2012 (SCI-Expanded)
- XXXI. **Optical, structural and surface characterization of CdO:Mg films**
Atay F., AKYÜZ İ., Kose S., Ketenci E., Bilgin V.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.22, no.5, pp.492-498, 2011 (SCI-Expanded)
- XXXII. **Optical, structural and surface characterization of ultrasonically sprayed CdO:F films**
AKYÜZ İ., Kose S., Ketenci E., Bilgin V., Atay F.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.5, pp.1947-1952, 2011 (SCI-Expanded)
- XXXIII. **Optical characterization of SnO₂:F films by spectroscopic ellipsometry**
Atay F., Bilgin V., AKYÜZ İ., Ketenci E., Kose S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.356, pp.2192-2197, 2010 (SCI-Expanded)
- XXXIV. **Electrical, structural and surface properties of fluorine doped tin oxide films**
Bilgin V., AKYÜZ İ., Ketenci E., Kose S., Atay F.
APPLIED SURFACE SCIENCE, vol.256, no.22, pp.6586-6591, 2010 (SCI-Expanded)
- XXXV. **Preparation and characterization of aluminum-incorporated cadmium oxide films**
AKYÜZ İ., Kose S., Atay F., Bilgin V.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.13, no.2, pp.109-114, 2010 (SCI-Expanded)
- XXXVI. **Optical characterization and determination of carrier density of ultrasonically sprayed CdS:Cu films**
Kose S., Atay F., Bilgin V., AKYÜZ İ., Ketenci E.
APPLIED SURFACE SCIENCE, vol.256, no.13, pp.4299-4303, 2010 (SCI-Expanded)
- XXXVII. **Characterization of ZnO films obtained by ultrasonic spray pyrolysis technique**
Ergin B., Ketenci E., ATAY F.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.12, pp.5249-5254, 2009 (SCI-Expanded)
- XXXVIII. **In doped CdO films: Electrical, optical, structural and surface properties**
KÖSE S., ATAY F., BİLGİN V., AKYÜZ İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.12, pp.5260-5266, 2009 (SCI-Expanded)
- XXXIX. **Growth and Characterization of Zn-Incorporated Copper Oxide Films**

- Engin M., Atay F., Kose S., Bilgin V., AKYÜZ İ.
JOURNAL OF ELECTRONIC MATERIALS, vol.38, no.6, pp.787-796, 2009 (SCI-Expanded)
- XL. **Some physical properties of copper oxide films: The effect of substrate temperature**
Kose S., Atay F., Bilgin V., AKYÜZ İ.
MATERIALS CHEMISTRY AND PHYSICS, vol.111, pp.351-358, 2008 (SCI-Expanded)
- XLI. **The investigation of Cu doped CdS films produced by ultrasonic spray pyrolysis technique**
Atay F., Bilgin V., AKYÜZ İ., Ketenci E., Kose S., Erturk K.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.10, no.2, pp.331-334, 2008 (SCI-Expanded)
- XLII. **Prediction of optical parameters of Sn doped CdO films using neural network**
Erturk K., Kose S., Atay F., Bilgin V., AKYÜZ İ., HACIİSMAİLOĞLU M. C., Kucuk I., Derebasi N.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.10, no.2, pp.335-338, 2008 (SCI-Expanded)
- XLIII. **The investigation of Cu doped CdS films produced by ultrasonic spray pyrolysis technique**
ATAY F., Bilgin V., AKYÜZ İ., Ketenci E., KÖSE S., Ertuek K.
Journal of Optoelectronics and Advanced Materials, vol.10, no.2, pp.331-334, 2008 (SCI-Expanded)
- XLIV. **Optical, structural and electrical properties of ultrasonically sprayed copper oxide films: the effect of Mg incorporation**
Atay F., Bilgin V., AKYÜZ İ., Kose S.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.9, no.11, pp.3604-3608, 2007 (SCI-Expanded)
- XLV. **Some physical properties of ultrasonically sprayed tin oxide films: the effect of the substrate temperature**
Atay F., Demir M., Kose S., Bilgin V., AKYÜZ İ.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.9, no.7, pp.2217-2226, 2007 (SCI-Expanded)
- XLVI. **Some physical properties of chemically sprayed Zn_{1-x}CdxS semiconductor films**
AKYÜZ İ., Kose S., Atay F., Bilgin V.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.10, pp.103-111, 2007 (SCI-Expanded)
- XLVII. **Optical, structural and electrical properties of ultrasonically sprayed copper oxide films: The effect of Mg incorporation**
ATAY F., Bilgin V., AKYÜZ İ., KÖSE S.
Journal of Optoelectronics and Advanced Materials, vol.9, no.11, pp.3604-3608, 2007 (SCI-Expanded)
- XLVIII. **The optical, structural and morphological properties of ultrasonically sprayed ZnO : Mn films**
AKYÜZ İ., Kose S., Atay F., Bilgin V.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.21, no.12, pp.1620-1626, 2006 (SCI-Expanded)
- XLIX. **Characterization of Mn-incorporated CdO films grown by ultrasonic spray pyrolysis**
Bilgin V., AKYÜZ İ., Kose S., Atay F.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.21, no.5, pp.579-585, 2006 (SCI-Expanded)
- L. **The effect of substrate temperature on the structural and some physical properties of ultrasonically sprayed US films**
Bilgin V., Kose S., Atay F., AKYÜZ İ.
MATERIALS CHEMISTRY AND PHYSICS, vol.94, no.1, pp.103-108, 2005 (SCI-Expanded)
- LI. **The effect of Sn concentration on some physical properties of zinc oxide films prepared by ultrasonic spray pyrolysis**
Bilgin V., Kose S., Atay F., AKYÜZ İ.
JOURNAL OF MATERIALS SCIENCE, vol.40, no.8, pp.1909-1915, 2005 (SCI-Expanded)
- LII. **Wide-bandgap modification of polycrystalline ZnO using Sn component on the basis of developing quantum-well hetero-structure**
Yildirim T., GÜR E., Tuzemen S., Bilgin V., Kose S., Atay F., AKYÜZ İ.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.27, pp.290-295, 2005 (SCI-Expanded)
- LIII. **The effect of Zn concentration on some physical properties of tin oxide films obtained by ultrasonic spray pyrolysis**
Bilgin V., Kose S., Atay F., AKYÜZ İ.
MATERIALS LETTERS, vol.58, no.29, pp.3686-3693, 2004 (SCI-Expanded)

- LIV. **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)
- LV. **The effect of In doping on some physical properties of CdS films**
Atay F., Bilgin V., AKYÜZ İ., Kose S.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.6, no.4, pp.197-203, 2003 (SCI-Expanded)
- LVI. **CdS : Ni films obtained by ultrasonic spray pyrolysis: effect of the Ni concentration**
Atay F., Kose S., Bilgin V., AKYÜZ İ.
MATERIALS LETTERS, vol.57, pp.3461-3472, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Fotovoltaik Güneş pillerinde Saydam Ön Kontak Olarak kullanılabilir ZnO:Al Filmlerinin İncelenmesi**
KURTARAN S., AKYÜZ İ., ATAY F.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, 2017 (Peer-Reviewed Journal)
- II. **TiO₂-CaO-Al₂O₃-Na₂O-SiO₂ Cam Yapısının Elektriksel ve Optik Özellikleri Üzerine ZnO Miktarının Etkisi**
ÇETİNKAYA ÇOLAK S., AKYÜZ İ., ATAY F.
Afyon Kocatepe University Journal of Sciences and Engineering, vol.17, no.1, pp.38-47, 2017 (Peer-Reviewed Journal)
- III. **Farklı Oranlarda PbO İçeren Borat Cam Alttaşlar Üzerine ZnO Filmlerinin Üretilmesi ve İncelenmesi**
Çetinkaya Çolak S., Atay F., Akyüz İ.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.16, no.3, pp.507-516, 2016 (Peer-Reviewed Journal)
- IV. **Deposition and Ellipsometric Characterization of Transparent Conductive Al doped ZnO for Solar Cell Application**
Gençyılmaz O., Atay F., Akyüz İ.
JOURNAL OF CLEAN ENERGY TECHNOLOGIES, vol.4, no.2, pp.90-94, 2016 (Peer-Reviewed Journal)
- V. **The influence of annealing temperature on some physical properties of spray deposited nanostructured CdS thin films**
Gençyılmaz O., Atay F., Akyüz İ.
Cumhuriyet Üniversitesi Fen-Edebiyat Fakültesi Fen Bilimleri Dergisi, vol.36, no.5, pp.1-9, 2015 (Peer-Reviewed Journal)
- VI. **The optical, electrical and surface differences between as-deposited and annealed NiO films produced by ultrasonic spray pyrolysis**
Gençyılmaz O., Atay F., Akyüz İ.
Marmara Journal of Science , vol.4, pp.163-172, 2015 (Peer-Reviewed Journal)
- VII. **Variable-Angle Spectroellipsometric Characterization of CdS Thin Films**
Gençyılmaz O., Atay F., Akyüz İ.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, vol.9, no.2, pp.137-146, 2014 (Peer-Reviewed Journal)
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