

Prof. Mehmet YILMAZ

Personal Information

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International Researcher IDs

ORCID: 0000-0002-4368-8453

Yoksis Researcher ID: 32962

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 2007 - 2012

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Lityum iyon piller için limo2 (M: Co, Ni, Mn, V) nanoyapıların sentezi ve karakterizasyonu, Atatürk Üniversitesi, Nanobilim Ve Nanomühendislik A.B.D., Nanomalzeme, 2012

Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Natural Sciences

Academic Titles / Tasks

Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2022 - Continues
Associate Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2017 - 2022

Academic and Administrative Experience

Fakülte Kriter Komisyon Üyesi, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2022 - Continues

Birim Enerji Yöneticisi, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2021 - Continues

Satın Alma Muayene Komisyon Üyesi, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2019 - 2021

Atatürk Üniversitesi, 2014 - 2016

Courses

Malzeme Bilgisi, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Modern Fizik Kavramlarının Öğretimi, Postgraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020
ÖĞRETMENLİK UYGULAMASI, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Türk Eğitim Sistemi ve Okul Yönetimi , Undergraduate, 2019 - 2020
Fizikte Özel Konular, Undergraduate, 2020 - 2021, 2019 - 2020
ÖĞRETMENLİK UYGULAMASI, Undergraduate, 2019 - 2020
ÖĞRETMENLİK UYGULAMASI, Undergraduate, 2019 - 2020
FİZİK-II, Undergraduate, 2019 - 2020
Fizik-I, Undergraduate, 2019 - 2020

Advising Theses

YILMAZ M., FLOR(F) KATKILI ZnO İNCE FİLMLEİN BÜYÜTÜLMESİ, KARAKTERİZASYONU VE GÜNEŞ PİLİ POTANSİYELİ,
Postgraduate, A.Özmen(Student), 2018
YILMAZ M., Lantanyum (La) katkılı çinko oksit (ZnO) filmlerin büyütülmesi ve karakteristiklerinin incelenmesi,
Postgraduate, S.HABASHYANI(Student), 2017

Jury Memberships

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, September, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2021
Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, December, 2020
Competition, 2020 yılı TÜBİTAK 2204 B Ortaokul Öğrencileri Araştırma Projeleri Bölge Yarışması, October, 2020
Competition, 1CG0230 "2020 yılı TÜBİTAK 2204 B Ortaokul Öğrencileri Araştırma Projeleri Bölge Yarışması", Ardeb, April, 2020
Doctorate, Doctorate, Atatürk Üniversitesi, January, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Polydopamine-Mediated Gold Nanostructure-Decorated Electrospun Polycaprolactone Fibers for Photocatalytic Dye Degradation**
Demirci S., Oncer N., MAZLUMOĞLU H., YILMAZ A., Egri S., Egri O., YILMAZ M.
ChemistrySelect, vol.9, no.41, 2024 (SCI-Expanded)
- II. **Development and characterization of self-powered, highly sensitive optoelectronic device based on PVA-rGO nanofibers/n-Si**
YILDIRIM F., Galehdarvand S., Chenari H. M., YILMAZ M., AYDOĞAN Ş.
NANOTECHNOLOGY, vol.35, no.33, 2024 (SCI-Expanded)
- III. **Improving photocatalytic efficiency: Harnessing the importance of Ag@HfO₂ core-shell nanostructures**
KOÇYİĞİT A., ERDOĞAN E., CANPOLAT N., AYDOĞAN Ş., YILMAZ M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.191, 2024 (SCI-Expanded)
- IV. **Synergistic enhancement of simazine degradation using ZnO nanosheets and ZnO/GO nanocomposites: A sol-gel synthesis approach**

- AYDOĞAN Ş., CANPOLAT N., KOÇYİĞİT A., YILMAZ M.
CERAMICS INTERNATIONAL, vol.50, no.14, pp.25080-25094, 2024 (SCI-Expanded)
- V. **Investigating the synergistic effect of ZnO/GO nanocomposite films for methylene blue removal**
YILDIRIM F., CANPOLAT N., AYDOĞAN Ş., YILMAZ M.
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol.107, no.9, pp.6091-6107, 2024 (SCI-Expanded)
- VI. **Photodiode behavior and capacitive performance of ZnO nanoflakes synthesized by electrochemical deposition**
YILMAZ M., YILDIRIM F., AYDOĞAN Ş., KOÇYİĞİT A.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.56, no.49, 2023 (SCI-Expanded)
- VII. **The Electrical Characteristics of the Co/Giemsan-Si Heterostructure Depending on Measurement Temperatures and Frequencies**
KOÇYİĞİT A., AYDOĞAN Ş., İNCEKARA Ü., YILMAZ M.
IEEE SENSORS JOURNAL, vol.23, no.8, pp.8184-8191, 2023 (SCI-Expanded)
- VIII. **Pomegranate derivative dye/silicon hybrid photodiode for sensor applications**
Yılmaz M., Demir Y., Aydoğan Ş.
SENSORS AND ACTUATORS A-PHYSICAL, vol.345, 2022 (SCI-Expanded)
- IX. **The light detection performance of the congo red dye in a Schottky type photodiode**
Kocuyigit A., YILMAZ M., İncekara Ü., ŞAHİN Y., AYDOĞAN Ş.
CHEMICAL PHYSICS LETTERS, vol.800, 2022 (SCI-Expanded)
- X. **The electrical and dielectric characterization of the Co/ZnO-Rods/p-Si heterostructure depending on the frequency**
AYDOĞAN Ş., Kocuyigit A., BOZKURT ÇIRAK B., Erdogan E., YILMAZ M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.9, pp.6059-6069, 2022 (SCI-Expanded)
- XI. **Investigation the Performance of Cr-Doped ZnO Nanocrystalline Thin Film in Photodiode Applications**
Tursucu A., Aydogan S., Kocuyigit A., Ozmen A., Yilmaz M.
JOM, vol.74, no.3, pp.777-786, 2022 (SCI-Expanded)
- XII. **A Comparative Study of the Mechanical and Tribological Properties of Thin Al₂O₃ Coatings Fabricated by Atomic Layer Deposition and Radio Frequency Sputtering**
Grilli M. L., Valerini D., Rizzo A., Yılmaz M., Song C., Hu G., Mikhaylov A., Chierchia R., Rinaldi A.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.219, no.1, 2022 (SCI-Expanded)
- XIII. **Density Functional Theory Calculations of Pinus brutia Derivatives and Its Response to Light in a Au/n-Si Device**
YILMAZ M., Demir Y., AYDOĞAN Ş., Grilli M. L.
ENERGIES, vol.14, no.23, 2021 (SCI-Expanded)
- XIV. **Comparison of n and p type Si-based Schottky photodiode with interlayered Congo red dye**
KOÇYİĞİT A., YILMAZ M., AYDOĞAN Ş., İncekara U., Kacus H.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.135, 2021 (SCI-Expanded)
- XV. **Dependence of electrical parameters of co/gold-chloride/p-Si diode on frequency and illumination**
Erdogan E., Yilmaz M., Aydoğan Ş., İncekara Ü., Şahin Y.
OPTICAL MATERIALS, vol.121, 2021 (SCI-Expanded)
- XVI. **The photosensitive activity of organic/inorganic hybrid devices based on Aniline Blue dye: Au nanoparticles (AB@Au NPs)**
Kacus H., YILMAZ M., İNCEKARA Ü., KOÇYİĞİT A., AYDOĞAN Ş.
SENSORS AND ACTUATORS A-PHYSICAL, vol.330, 2021 (SCI-Expanded)
- XVII. **Co/aniline blue/silicon sandwich hybrid heterojunction for photodiode and low-temperature applications**
Kacus H., Şahin Y., Aydoğan Ş., İncekara Ü., Yılmaz M.
JOURNAL OF SANDWICH STRUCTURES & MATERIALS, vol.23, no.6, pp.2547-2565, 2021 (SCI-Expanded)
- XVIII. **Improving light-sensing behavior of Cu/n-Si photodiode with Human Serum Albumin:**

Microelectronic and dielectric characterization

ORHAN Z., YILMAZ M., AYDOĞAN Ş., TAŞKIN M., İNCEKARA Ü.

Optik, vol.241, 2021 (SCI-Expanded)

- XIX. **Molecular engineering for donor electron to enhance photodiode properties of Co/n-Si and Co/p-Si structures: The effect of hematoxylin interface**
KOÇYİĞİT A., YILMAZ M., Incekara Ü., AYDOĞAN Ş., Kacus H.
OPTIK, vol.242, 2021 (SCI-Expanded)
- XX. **Light Sensitive Properties and Temperature-Dependent Electrical Performance of n-TiO₂/p-Si Anisotype Heterojunction Electrochemically Formed TiO₂ on p-Si**
Koca M., Yilmaz M., Ekinci D., Aydogan S.
JOURNAL OF ELECTRONIC MATERIALS, vol.50, no.9, pp.5184-5195, 2021 (SCI-Expanded)
- XXI. **Sol-gel spin coating derived cadmium oxide semiconductor thin films: Effect of Lutetium contribution**
Erdogan E., TURGUT G., YILMAZ M.
OPTIK, vol.240, 2021 (SCI-Expanded)
- XXII. **On the investigation of the electro-optical sensor potential of Boswellia serrata resin**
Yıldırım F., Yılmaz M., İncekara Ü., Aydoğan Ş.
OPTICAL MATERIALS, vol.117, 2021 (SCI-Expanded)
- XXIII. **Modification of barrier diode with cationic dye for high power applications**
Erdogan E., Yilmaz M., Aydogan S., Incekara U., Kacus H.
OPTIK, vol.232, 2021 (SCI-Expanded)
- XXIV. **On thermal and optical sensor applications of chitosan molecule in the Co/Chitosan/p-Si hybrid heterojunction design**
Kacus H., AYDOĞAN Ş., İNCEKARA Ü., YILMAZ M., BİBER M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.5, pp.6586-6597, 2021 (SCI-Expanded)
- XXV. **An Investigation of Spray Deposited CdO Films and CdO/p-Si Heterojunction at Different Substrate Temperatures**
Turgut G., Aydogan S., Yilmaz M., Ozmen A., Kacus H.
JOM, vol.73, no.2, pp.566-573, 2021 (SCI-Expanded)
- XXVI. **Investigation of neodymium rare earth element doping in spray-coated zinc oxide thin films**
ERDOĞAN E., YILMAZ M., AYDOĞAN Ş., TURGUT G.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.2, pp.1379-1391, 2021 (SCI-Expanded)
- XXVII. **Light-sensing behaviors of organic/n-Si bio-hybrid photodiodes based on malachite green (MG) organic dye**
YILMAZ M., Kocyigit A., AYDOĞAN Ş., İNCEKARA Ü., Tursucu A., Kacus H.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.23, pp.21548-21556, 2020 (SCI-Expanded)
- XXVIII. **Optoelectronic properties of Co/pentacene/Si MIS heterojunction photodiode**
Kacus H., YILMAZ M., Kocyigit A., İNCEKARA Ü., AYDOĞAN Ş.
PHYSICA B-CONDENSED MATTER, vol.597, 2020 (SCI-Expanded)
- XXIX. **Influence of illumination intensity on electrical characteristics of Eosin y dye-based hybrid photodiode: comparative study**
Yılmaz M., Kocyigit A., Aydoğan Ş., İncekara Ü., Şahin Y., Kacus H.
Applied Physics A: Materials Science and Processing, vol.126, 2020 (SCI-Expanded)
- XXX. **The performance of chitosan layer in Au/n-Si sandwich structures as a barrier modifier**
Kocyigit A., Yilmaz M., Aydoğan Ş., Incekara Ü., Şahin Y.
POLYMER TESTING, vol.89, 2020 (SCI-Expanded)
- XXXI. **Phenol red based hybrid photodiode for optical detector applications**
Kaçuş H., Şahin Y., Aydoğan Ş., İncekara Ü., Yılmaz M., Biber M.

- SOLID-STATE ELECTRONICS, vol.171, 2020 (SCI-Expanded)
- XXXII. **Enhanced Electrical and Optical Characteristics of Co/Phenol Red (PR)/Silicon Hybrid Heterojunction for Photodiode and Thermal Applications**
Şahin Y., Kacus H., Aydoğan Ş., Yılmaz M., İncekara Ü.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.8, pp.4952-4961, 2020 (SCI-Expanded)
- XXXIII. **The comparison of Co/hematoxylin/n-Si and Co/hematoxylin/p-Si devices as rectifier for a wide range temperature**
YILMAZ M., Kocyigit A., Cirak B. B., Kacus H., İNCEKARA Ü., AYDOĞAN Ş.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.113, 2020 (SCI-Expanded)
- XXXIV. **A Bibliometric Analysis of the Publications on In Doped ZnO to be a Guide for Future Studies**
Yılmaz M., Grilli M. L., Turgut G.
METALS, vol.10, no.5, 2020 (SCI-Expanded)
- XXXV. **Crystallographic disorders depending on monovalent cations addition and their effects on ZnO's characteristics**
AYDOĞAN Ş., YILMAZ M.
CERAMICS INTERNATIONAL, vol.46, no.6, pp.8420-8430, 2020 (SCI-Expanded)
- XXXVI. **Fabrication of spray derived nanostructured n-ZnO/p-Si heterojunction diode and investigation of its response to dark and light**
Ozmen A., AYDOĞAN Ş., YILMAZ M.
CERAMICS INTERNATIONAL, vol.45, no.12, pp.14794-14805, 2019 (SCI-Expanded)
- XXXVII. **Effect of NiOx's film thickness on the electrical properties of Ni/p-NiOx/n-Si structures**
YILMAZ M., KACUS H., GRILLI M. L., AYDOĞAN Ş.
JOURNAL OF SANDWICH STRUCTURES & MATERIALS, 2019 (SCI-Expanded)
- XXXVIII. **Electrochemical impedance spectroscopy analysis of ZnO films: the effect of Mg doping**
YILMAZ M., Demir K., Turgut G., AYDOĞAN Ş.
PHILOSOPHICAL MAGAZINE LETTERS, vol.99, no.7, pp.243-252, 2019 (SCI-Expanded)
- XXXIX. **The effect of measurements and layer coating homogeneity of AB on the Al/AB/p-Si devices**
Kocyigit A., YILMAZ M., AYDOĞAN Ş., İNCEKARA Ü.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.790, pp.388-396, 2019 (SCI-Expanded)
- XL. **A function of external doping: Characteristics of inorganic nanostructure based diode**
Yılmaz M.
Ceramics International, vol.45, no.1, pp.665-673, 2019 (SCI-Expanded)
- XLI. **An examination of correlation between characteristic and device performance of ZnO films as a function of La content**
HABASHYANI S., ÖZMEN A., AYDOĞAN Ş., YILMAZ M.
VACUUM, vol.157, pp.497-507, 2018 (SCI-Expanded)
- XLII. **Room temperature deposition of XRD-amorphous TiO₂ thin films: Investigation of device performance as a function of temperature**
GRILLI M. L., YILMAZ M., AYDOĞAN Ş., Cirak B. B.
CERAMICS INTERNATIONAL, vol.44, no.10, pp.11582-11590, 2018 (SCI-Expanded)
- XLIII. **Facile electrochemical-assisted synthesis of TiO₂ nanotubes and their role in Schottky barrier diode applications**
YILMAZ M., Cirak B. B., AYDOĞAN Ş., GRILLI M. L., Biber M.
SUPERLATTICES AND MICROSTRUCTURES, vol.113, pp.310-318, 2018 (SCI-Expanded)
- XLIV. **A facile growth of spray based ZnO films and device performance investigation for Schottky diodes: Determination of interface state density distribution**
AYDOĞAN Ş., GRILLI M. L., YILMAZ M., ÇALDIRAN Z., Kacus H.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.708, pp.55-66, 2017 (SCI-Expanded)
- XLV. **Improving the rectifying properties of metal/semiconductor junction using novel material: Zam-zam**
AYDOĞAN Ş., YILMAZ M., CALDIRAN Z.
SENSORS AND ACTUATORS A-PHYSICAL, vol.248, pp.22-28, 2016 (SCI-Expanded)

- XLVI. **Genotoxicity in primary human peripheral lymphocytes after exposure to lithium titanate nanoparticles in vitro**
Akbara G. B., Turkez H., SÖNMEZ E., TATAR A., YILMAZ M.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.32, no.8, pp.1423-1429, 2016 (SCI-Expanded)
- XLVII. **Effect of growth parameters on the properties of RF-sputtered highly conductive and transparent p-type NiO_x films**
Grilli M. L., Menchini F., Dikonimos T., Nunziante P., Pilloni L., YILMAZ M., Piegari A., Mittiga A.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.31, no.5, 2016 (SCI-Expanded)
- XLVIII. **Investigation of Structural, Morphological, Optical, and Electrical Properties of Al Doped ZnO Thin Films Via Spin Coating Technique**
YILMAZ M., TATAR D., SÖNMEZ E., ÇIRAK Ç., AYDOĞAN Ş., Gunturkun R.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.46, no.4, pp.489-494, 2016 (SCI-Expanded)
- XLIX. **Hydrothermal growth of ZnO nanoparticles under different conditions**
YILMAZ M., Cirak B. B., ÇIRAK Ç., AYDOĞAN Ş.
PHILOSOPHICAL MAGAZINE LETTERS, vol.96, no.2, pp.45-51, 2016 (SCI-Expanded)
- L. **The modification of the characteristics of nanocrystalline ZnO thin films by variation of Ta doping content**
YILMAZ M., Grilli M. L.
PHILOSOPHICAL MAGAZINE, vol.96, no.20, pp.2125-2142, 2016 (SCI-Expanded)
- LI. **The effect of Pb doping on the characteristic properties of spin coated ZnO thin films: Wrinkle structures**
YILMAZ M., AYDOĞAN Ş.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.40, pp.162-170, 2015 (SCI-Expanded)
- LII. **Investigation of characteristics of ZnO:Ga nanocrystalline thin films with varying dopant content**
YILMAZ M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.40, pp.99-106, 2015 (SCI-Expanded)
- LIII. **The Effect of Mn Incorporation on the Structural, Morphological, Optical, and Electrical Features of Nanocrystalline ZnO Thin Films Prepared by Chemical Spray Pyrolysis Technique**
YILMAZ M., AYDOĞAN Ş.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.6, pp.2726-2735, 2015 (SCI-Expanded)
- LIV. **Preparation and characterization of sol-gel-derived n-ZnO thin film for Schottky diode application**
YILMAZ M., CALDIRAN Z., Deniz A. R., AYDOĞAN Ş., Gunturkun R., Turut A.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.119, no.2, pp.547-552, 2015 (SCI-Expanded)
- LV. **Titanium doping effect on the characteristic properties of sol-gel deposited ZnO thin films**
YILMAZ M., TURGUT G.
KOVOVE MATERIALY-METALLIC MATERIALS, vol.53, no.5, pp.333-339, 2015 (SCI-Expanded)
- LVI. **Characteristic properties of spin coated ZnO thin films: the effect of Ni doping**
YILMAZ M.
PHYSICA SCRIPTA, vol.89, no.9, 2014 (SCI-Expanded)
- LVII. **The variation of the features of SnO₂ and SnO₂:F thin films as a function of V dopant**
Turgut G., SÖNMEZ E., YILMAZ M., ÇÖGENLİ M. S., Yilmaz M., TURGUT Ü., DİLBER R.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, no.6, pp.2808-2828, 2014 (SCI-Expanded)
- LVIII. **An investigation of the Nb doping effect on structural, morphological, electrical and optical properties of spray deposited F doped SnO₂ films**
Turgut G., Keskenler E. F., Aydın S., Yilmaz M., Dogan S., Duzgun B.
PHYSICA SCRIPTA, vol.87, no.3, 2013 (SCI-Expanded)
- LIX. **Influence of deposition pressure (O₂) on the YBCO (Y123) thin films prepared by pulsed laser deposition**

YURTCAN M. T., ŞİMŞEK Ö., YILMAZ M., Hasar U., ERTUĞRUL M., Bayram O.

Journal of Superconductivity and Novel Magnetism, vol.26, no.5, pp.1873-1877, 2013 (SCI-Expanded)

LX. LiCoO₂ structures by spray pyrolysis technique for rechargeable li-ion battery

Yılmaz M., Turgut G., Aydın S., Ertuğrul M.

Journal of the Chemical Society of Pakistan, vol.34, pp.283-286, 2012 (SCI-Expanded)

LXI. Study of Structural and Optical Properties of Zinc Oxide Rods Grown on Glasses by Chemical Spray Pyrolysis

Sönmez E., Aydın S., Yılmaz M., Yurtcan M. T., Karacalı T., Ertuğrul M.

JOURNAL OF NANOMATERIALS, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. Albedo Factor Determination of Some Selected Cu Compounds

YILMAZ M., TURŞUCU A.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, pp.292-298, 2021 (Peer-Reviewed Journal)

II. Electrical Characterization of CdO Based Au/p-Si Rectifier

Yılmaz M.

Journal of the Institute of Science and Technology, vol.11, no.2, pp.1050-1057, 2021 (Peer-Reviewed Journal)

III. ALTI ŞAPKALI DÜŞÜNME TEKNİĞİNİN 7. SINIF ÖĞRENCİLERİNİN AKADEMİK BAŞARILARINA ETKİSİ

YILMAZ M., ARICI F., DİLBER R.

Researcher:Social Science Studies, vol.5, pp.128-139, 2017 (Peer-Reviewed Journal)

IV. Preparation of LiCoO₂ and LiNi_xCo_{1-x}O₂ by Solid State Reaction Technique

Yılmaz M., Aydın S., Turgut G., Dilber R., Ertuğrul M.

Progresses in Nanotechnology and Nanomaterials, vol.1, pp.5-8, 2012 (Peer-Reviewed Journal)

V. Investigation of structural morphological and optical properties of electrodeposited SnO₂ thin films

Aydın S., Turgut G., Yılmaz M., Tatar D., Düzgün B., Ertuğrul M.

International Journal of the Physical Sciences, vol.34, pp.5327-5333, 2012 (Peer-Reviewed Journal)

VI. Fabrication of ZnO nanorods by simplified spray pyrolysis

AYDIN S., TURGUT G., YILMAZ M., ERTUĞRUL M.

Bitlis Eren University|Journal of Science and Technology, vol.1, pp.1-3, 2011 (Peer-Reviewed Journal)

VII. The causes of death in hypertensive disease of pregnancy: Seven years' experience in a referral medical center Gebeliğin hipertansif hastalıklarına bağlı ölüm nedenleri: Bir referans merkezinin 7 yıllık sonuçları

AL R. A., YILMAZ M., BÖREKÇİ B., Kadanali S.

Türk Jinekoloji ve Obstetrik Derneği Dergisi, vol.6, no.4, pp.257-261, 2009 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. Optical and electrical characterization of organic solar cells obtained using gold and silver metal nanoparticles

Kacus H., Baltakesmez A., Caldıran Z., Aydogun Ş., Yılmaz M., Sevim M.

2nd International Congress on Semiconductor Materials and Devices (ICSMD), Ardahan, Turkey, 28 - 30 August 2018, vol.46, pp.6986-6990

II. Investigation Of The Structural Properties Of NiO Films Grown by Chemical Spray Pyrolysis

YILMAZ M., KOÇYİĞİT A.

CUMHURİYET ZİRVESİ 4. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ-2021, Turkey, 21 January 2021

III. The Dielectric Performance Of The Al/Cu:NiO/p-Si Heterojunction

YILMAZ M., ÇAĞLAR G., KOÇYİĞİT A.

CUMHURİYET ZİRVESİ 4. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ-2021, Turkey, 21 January 2021

- IV. **COMPARATIVE STUDY OF THE MECHANICAL PROPERTIES OF Al₂O₃ COATINGS FABRICATED BY GRILLI M., VALERINI D., HU G., SONG C., NEMATPOUR A., CHERCHIA R., YILMAZ M.**
2nd International Conference on Emerging Technologies in Materials Engineering, 6 - 08 November 2019
- V. **Improving The Device Performance Of The Organic Solar Cells Using 1 Ratio Gold and Silver Nanoparticles**
HATİCE K., BALTAKESMEZ A., ÇALDIRAN Z., AYDOĞAN Ş., YILMAZ M., SEVİM M.
International Congress on Semiconductor Materials and Devices (ICSMD-2018), 28 - 30 August 2018
- VI. **Influence of Co loading on characteristics of ZnO films grown by chemical spray pyrolysis**
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- VII. **Possible alternatives to critical elements in coatings for extreme applications**
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- VIII. **Room-temperature deposition of amorphous TiO₂ thin films: investigation of device performance as a function of temperature**
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- IX. **Facile growth of ZnO films: the effect of La doping**
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- X. **Radio frequency sputtered In-free transparent conductors**
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- XI. **Investigation of hematological values of pregnant women with HELLP syndrome**
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- XII. **The Electrical Characteristics of the NiO/P-Si Junctions**
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- XIV. **Synthesis and Characterization of TiO₂ nanotubes by Anodic Oxidation**
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- XV. **Optical and Electrical Characterization of n-ZnO/p-Si Heterojunction**
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- XVI. **A rare case agenesis of cerebellum**
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- XVII. **Preparation and Characterization of Li-doped and undoped ZnO thin films by spin coating technique**
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- XVIII. **Studies of LiNiO₂ Cathode Material Prepared by Solid State Reaction Technique for Lithium ion Batteries**
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- XX. Synthesis and Characterization of CdTe onto nickel substrates**
AYDIN S., TURGUT G., YILMAZ M., YURTCAN M. T., ERTUĞRUL M.
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- XXI. Electrodeposition of SnO₂ on NiO substrates**
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- XXIV. Structural Properties of Zinc Oxide Thin Films Grown on Glasses by Simplified Spray Technique**
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- XXVII. Pressure effect in YBCO thin films on LAO Substrates by Pulsed Laser Deposition**
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Supported Projects

Yılmaz M., Aydoğan Ş., TUBITAK Project, Sıcaklık ve Manyetik Alan ile Mikrodalga Kayıpları Kontrol Edilebilen Seramiklerin Tasarımı, 2022 - 2025

YILMAZ M., YILDIRIM F., CANPOLAT N., Project Supported by Higher Education Institutions, Elektrokimyasal Depolama Yöntemi ile Hazırlanan Çinko Oksit Nanoduvar/Grafen (ZnO/NWsGrafen) Hibrit Yapıların Büyüme Kinetiği ve Fotokatalitik Aktivitesi, 2022 - 2024

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ÇINAR DEMİR K., AYDOĞAN Ş., YILMAZ M., ORHAN Z., Project Supported by Higher Education Institutions, Elektrokimyasal Büyütme Metodu İle Elde Edilen CZTS İnce Filmlerinin Süperkapasitör Uygulamalarının İncelenmesi, 2022 - 2024

Yılmaz M., Aydoğan Ş., TUBITAK Project, Foto-Kataliz İçin Verimli Duyarlılaştırma Mekanizmasına Sahip Ag@HfO2 Çekirdek-KabukNanoyapıların Tasarımı, 2022 - 2023

Yılmaz M., Ruello M. L., TÜBİTAK - AB COST Project, Innovative and sustainable Technologies for reducing critical raw materials dependence for Cleaner transportation Applications, 2020 - 2021

Aydoğan Ş., YILMAZ M., Project Supported by Higher Education Institutions, Kimyasal Püskürtme Tekniği ile Elde Edilen ZnO Filmlerin Güneş Pili Potansiyeli ve Korozyon Dirençlerinin Analiz Edilmesi, 2019 - 2020

Yılmaz M., Ruello M. L., TÜBİTAK - AB COST Project, Solution for Critical Raw Materials Under Extreme Conditions - CRM-EXTREME, 2016 - 2020

AYDOĞAN Ş., ÇALDIRAN Z., KAÇUŞ H., YILMAZ M., BİBER M., DENİZ A. R., COŞKUN F. M., Project Supported by Higher Education Institutions, VERİMLİ ORGANİK VE İNORGANİK FOTOVOLTAİKLERİN FABRİKASYONU, KARAKTERİZASYONU VE VERİMİ ARTTIRMAYA YÖNELİK İNVERTED SOLAR CELL YAPILARIN İNCELENMESİ, 2015 - 2017

YILMAZ M., AYDIN S., Project Supported by Higher Education Institutions, ELEKTROKİMYASAL DEPOLAMA YÖNTEMİ İLE ELDE EDİLEN CO, MN, SE, LİV KATKILI ZNO İNCE FİMLERİN ELEKTRİKSEL VE OPTİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2013 - 2015

Scientific Refereeing

SENSORS AND ACTUATORS A-PHYSICAL, SCI Journal, December 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, Ministry of Science and Technology of the People's Republic of China, MOST Bilateral Cooperation Program, Tübitak, Turkey, August 2021

SENSORS AND ACTUATORS A-PHYSICAL, SCI Journal, July 2021

SEMICONDUCTOR SCIENCE AND TECHNOLOGY, SCI Journal, June 2021

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, June 2021

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MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, SCI Journal, April 2021

PHYSICA B-CONDENSED MATTER, SCI Journal, April 2021

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, February 2021

PHYSICA B-CONDENSED MATTER, SCI Journal, January 2021

PHYSICA B-CONDENSED MATTER, Journal Indexed in SCI-E, November 2020

PHYSICA B-CONDENSED MATTER, Journal Indexed in SCI-E, September 2020

PHYSICA B-CONDENSED MATTER, Journal Indexed in SCI-E, August 2020

Project Supported by Higher Education Institutions, BAP Research Project, Erzincan Binali Yıldırım University, Turkey, July 2020

TUBITAK Project, 1002 - Quick Support Program, Ardeb, Turkey, February 2020

Scientific Research / Working Group Memberships

Metrics

Publication: 121

Citation (WoS): 1007

Citation (Scopus): 1094

H-Index (WoS): 18

H-Index (Scopus): 19

Congress and Symposium Activities

ITHACA Training School Meeting-3, Audience, Rome, Italy, 2021

ITHACA Training School Meeting-2, Audience, Rome, Italy, 2021

ITHACA Training School Meeting, Audience, Rome, Italy, 2021

ITHACA Meeting, Audience, Rome, Italy, 2021

EMRS Meeting, Attendee, Strasbourg, France, 2018

Non Academic Experience

Optical Coatings at ENEA Casaccia Research Centre-Rome