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International Researcher IDs
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Education Information

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Yl) (Tezli), Turkey 2018 - 2020
Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Yl) (Tezli), Turkey 2017 - 2018
Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engıneerıng And Natural Scıences, Fizik (Yl) (Tezli), Turkey 2015 - 2016
Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 2010 - 2015

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Research Assistant, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Deposition of zinc oxide/vanadium pentoxide composite thin films by thermionic vacuum arc plasma**
Durmuş Ç., DEMİRKOL U., AKAN T.
Thin Solid Films, vol.814, 2025 (SCI-Expanded)

II. **The Effect of Annealing Process on Some Physical Properties of GaN Thin Films with Gr Doping**
ÖZEN S., PAT S., KORKMAZ Ş., Mohammadigharehbagh R., Akkurt N., DEMİRKOL U., ÖZGÜR M.
ECS Journal of Solid State Science and Technology, vol.10, no.10, 2021 (SCI-Expanded)

III. **Detailed transmittance analysis of high-performance SnO2-doped WO(3)thin films in UV-Vis region for electrochromic devices**
Olkun A., Pat S., Akkurt N., Mohammadigharehbagh R., Demirkol U., Özgür M., Korkmaz Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, pp.19074-19084, 2020 (SCI-Expanded)

IV. **Investigation of TiO2 thin films as a cathodic material for electrochromic display devices**
Akkurt N., PAT S., Mohammadigharehbagh R., ÖZGÜR M., DEMİRKOL U., Olkun A., KORKMAZ Ş.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9568-9578, 2020 (SCI-Expanded)

V. **Two-dimensional BN-doped ZnO thin-film deposition by a thermionic vacuum arc system**
ÖZGÜR M., PAT S., Mohammadigharehbagh R., DEMİRKOL U., Akkurt N., Olkun A., KORKMAZ Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.9, pp.6948-6955, 2020 (SCI-Expanded)

VI. **Electrochromic Properties of Graphene Doped TiO2Layer Deposited by Thermionic Vacuum Arc**
Pat S., Akkurt N., Mohammadigharehbagh R., Olkun A., Demirkol U., Özgür M., Korkmaz Ş.
ECS Journal of Solid State Science and Technology, vol.9, no.6, 2020 (SCI-Expanded)

VII. **Determination of the structural, morphological and optical properties of graphene doped SnO thin films deposited by using thermionic vacuum arc technique**
DEMİRKOL U., PAT S., Mohammadigharehbagh R., Musaoglu C., ÖZGÜR M., Elmas S., Ozen S., KORKMAZ Ş.
PHYSICA B-CONDENSED MATTER, vol.569, pp.14-19, 2019 (SCI-Expanded)

VIII. **Determination of physical properties of graphene doped ZnO (ZnO:Gr) nanocomposite thin films deposited by a thermionic vacuum arc technique**
Elmas S., PAT S., Mohammadigharehbagh R., Musaoglu C., ÖZGÜR M., DEMİRKOL U., Ozen S., KORKMAZ Ş.
PHYSICA B-CONDENSED MATTER, vol.557, pp.27-33, 2019 (SCI-Expanded)

IX. **Sn doped ZnO thin film deposition using thermionic vacuum arc technique**
ÖZGÜR M., PAT S., Mohammadigharehbagh R., Musaoglu C., DEMİRKOL U., Elmas S., Ozen S., KORKMAZ Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.774, pp.1017-1023, 2019 (SCI-Expanded)

X. **Al doped ZnO thin film deposition by thermionic vacuum arc**
ÖZGÜR M., PAT S., Mohammadigharehbagh R., Musaoglu C., DEMİRKOL U., Elmas S., Ozen S., KORKMAZ Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.1, pp.624-630, 2019 (SCI-Expanded)

XI. **Investigation of the substrate effect for Zr doped ZnO thin film deposition by thermionic vacuum arc technique**
DEMİRKOL U., PAT S., Mohammadigharehbagh R., Musaoglu C., ÖZGÜR M., Elmas S., Ozen S., KORKMAZ Ş.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.21, pp.18098-18104, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **Surface, optical and electrochemical performance of indium-doped ZnO/WO3 nano-composite thin films**
Mohammadigharehbagh R., PAT S., Akkurt N., Olkun A., ÖZGÜR M., DEMİRKOL U., Ozen S., KORKMAZ Ş.
SN APPLIED SCIENCES, vol.2, no.11, 2020 (ESCI)

Papers Published in Refereed Scientific Meetings

I. **Termiyonik Vakum Ark Tekniği ile Biriktirilmiş TiB2 İnce Filmlerin Raman Spektroskopisi ile İncelenmesi**
DEMİRKOL U., PAT S., ÖZGÜR M., Mohammadigharehbagh R., AKKURT N., OLKUN A., KORKMAZ Ş.
25. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 20 December 2019

II. **Investigation of Some Physical Properties of Tungsten TrioxideThin Films Deposited via Thermionic Vacuum Arc Technique**
DEMİRKOL U., PAT S., AKKURT N., ÖZGÜR M., Mohammadigharehbagh R., OLKUN A., KORKMAZ Ş.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, vol.1, pp.285-292

III. **The Gr Doping Effect on Some Physical Properties of GaN Thin Films Produced by TVA**
ÖZEN S., PAT S., KORKMAZ Ş., Mohammadigharehbagh R., Elmas S., AKKURT N., DEMİRKOL U., ÖZGÜR M.

4TH INTERNATIONAL SYMPOSIUM ON INNOVATIVE APPROACHES IN ENGINEERING AND NATURAL SCIENCES, Samsun, Turkey, 22 - 24 November 2019, pp.27

IV. **Determination of Some Physical Properties of Boron Carbide (B4C) Thin Films By Using TVA Technique**
Elmas S., PAT S., KORKMAZ Ş., Mohammadigharehbagh R., AKKURT N., ÖZGÜR M., DEMİRKOL U.
International Symposium on Boron, Nevşehir, Turkey, 17 - 19 April 2019

V. **TiB2 İnce Filmlerin Termiyonik Vakum Ark Yöntemi ile Üretilmesi**
PAT S., KORKMAZ Ş., Mohammadigharehbagh R., AKKURT N., Elmas S., DEMİRKOL U., ÖZGÜR M.
International Symposium On Boron, Nevşehir, Turkey, 17 - 19 April 2019

VI. **Surface and microstructure properties of the ZnO:Zr thin films**
ÖZGÜR M., PAT S., Mohammadigharehbagh R., Musaoğlu C., DEMİRKOL U., Elmas S., ÖZEN S., KORKMAZ Ş.
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.301

VII. **Optical properties of Sn doped ZnO thin films**
DEMİRKOL U., PAT S., Mohammadigharehbagh R., Musaoğlu C., ÖZGÜR M., Elmas S., ÖZEN S., KORKMAZ Ş.
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.486

VIII. **Surface and microstructure properties of the ZnO:Sn thin films**
DEMİRKOL U., PAT S., Mohammadigharehbagh R., Musaoğlu C., ÖZGÜR M., Elmas S., ÖZEN S., KORKMAZ Ş.
Turksih Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.301

IX. **Optical Properties of the ZnO:Zr Thin Films**
ÖZGÜR M., PAT S., Mohammadigharehbagh R., Musaoğlu C., DEMİRKOL U., Elmas S., ÖZEN S., KORKMAZ Ş.
Turkish Physical Society 34th International Physical Congress, Muğla, Turkey, 5 - 09 September 2018, pp.486

Supported Projects

Akan T., Demirkol U., Project Supported by Higher Education Institutions, Plazma Teknolojileri Kullanılarak Molibden Tabanlı Yapıların Üretilmesi ve İncelenmesi, 2025 - 2026

Metrics

Publication: 29
Citation (WoS): 91
Citation (Scopus): 177
H-Index (WoS): 7
H-Index (Scopus): 8

Non Academic Experience

İhsan Doğramacı Bilkent Üniversitesi Nanoteknoloji Araştırma Merkezi (NANOTAM AŞ.) ANKARA, Proje Mühendisi