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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: GBY-0083-2022

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Education Information

Doctorate, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2010 - 2016

Postgraduate, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2008 - 2010

Undergraduate, Canakkale Onsekiz Mart University, Fen Fakültesi, Fizik, Turkey 2003 - 2008

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Fotovoltaik Uygulamalar için Ultrasonik Spray Pyrolysis Tekniği ile Üretilen CdO:Pb ve CuO:In İnce Filmlerin Karakterizasyonu, Canakkale Onsekiz Mart University, Fen Bilimleri Entitüsü, Fizik, 2016

Postgraduate, ZnO İnce Filmleri: Co Katkısının Etkisi, Canakkale Onsekiz Mart University, Fen Bilimleri Entitüsü, Fizik, 2010

Research Areas

Physics, 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, Magnetic Properties and Materials, Optical Properties, Spectroscopy of Matter, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Canakkale Onsekiz Mart University, Çanakkale Teknik Bilimler Meslek Yüksek Okulu, Elektrik ve Enerji, 2018 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Çanakkale Teknik Bilimler Meslek Yüksek Okulu, Elektrik ve Enerji, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **Iron doped ZnO thin films deposited by ultrasonic spray pyrolysis: structural, morphological, optical, electrical and magnetic investigations**
BİLGİN V., Sarica E., DEMİRSELÇUK B., Turkyilmaz S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.20, pp.17542-17551, 2018 (SCI-Expanded)
- VI. **Ultrasonically sprayed ZnO:Co thin films: Growth and characterization**
DEMİRSELÇUK B., BİLGİN V.
APPLIED SURFACE SCIENCE, vol.273, pp.478-483, 2013 (SCI-Expanded)
- VII. **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)

Articles Published in Other Journals

- I. **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)
- II. **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)

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **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

IV. **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

V. **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

Supported Projects

Güneş İ., Demirselçuk B., Sarica E., Project Supported by Higher Education Institutions, Lityum Katkılı Çinko Oksit İnce Filmlerinin Üretimi, Karakterizasyonu ve Uygulamaları, 2023 - 2024

Güneş İ., Akyüz İ., Polat Gönüllü M., Demirselçuk B., Project Supported by Higher Education Institutions, Zn katkılı CuO İnce Filmlerinin Büyütülmesi, Optimizasyonu ve Uygulamaları, 2023 - 2024

DEMİRSELÇUK B., KÜÇÜKARSLAN A., GÜNEŞ İ., SARICA E., Project Supported by Higher Education Institutions, Sülfür ile tavllanmış SnS ince filmlerinin yapısal, yüzeysel, elektriksel ve optiksel özelliklerinin incelenmesi, 2022 - 2023

DEMİRSELÇUK B., KÜÇÜKARSLAN A., BİLGİN V., GÜNEŞ İ., KUŞ E., SARICA E., Project Supported by Higher Education Institutions, Fe ve Co İkili Katkılı CdO İnce Filmlerinin Sprey Piroliz İle Büyütülmesi ve Karakterizasyonu, 2020 - 2022

DEMİRSELÇUK B., BİLGİN V., KÜÇÜKARSLAN A., Kuş E., Project Supported by Higher Education Institutions, Spintronik Uygulamalar için ZnS:X (X=Ni,Mn) Yarıiletken İnce Filmlerinin Büyütülmesi ve Karakterizasyonu, 2019 - 2020

SEL K., DEMİRSELÇUK B., GÜNEŞ İ., BİLGİN V., Project Supported by Higher Education Institutions, Fotovoltaik güneş pili uygulamaları için CdO ve CuO filmlerinin sol-gel spin kaplama tekniği ile büyütülmesi ve karakterizasyonu, 2011 - 2012

BİLGİN V., SARICA E., ÖZÜTOK F., DEMİRSELÇUK B., Project Supported by Higher Education Institutions, Fotovoltaik uygulamalar için ITO ve n-ZnO ince filmlerin üretimi ve tavlama işlemi ile karakteristiklerinin iyileştirilmesi, 2010 - 2012

Metrics

Publication: 47

Citation (WoS): 63

Citation (Scopus): 79

H-Index (WoS): 4

H-Index (Scopus): 5