

## Asst. Prof. BARBAROS DEMİRSELÇUK

### Personal Information

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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 Edebiyat 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

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 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 (Journal Indexed in 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 (Journal Indexed in 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- VI. **Ultrasonically sprayed ZnO:Co thin films: Growth and characterization**  
DEMİRSELÇUK B., BİLGİN V.  
APPLIED SURFACE SCIENCE, vol.273, pp.478-483, 2013 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

### **Articles Published in Other Journals**

- I. **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 (Journal Indexed in ESCI)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **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
- II. **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
- III. **Electrical, optical and surface studies of CdS thin films doped with iron**  
DEMİRSELÇUK B., SARICA E., BİLGİN V.  
11th Nanoscience and Nanotechnology Conference, 22 - 25 June 2015
- IV. **CdS:Sn thin films grown by ultrasonic spray pyrolysis: Optical and surface studies**  
DEMİRSELÇUK B., BİLGİN V.  
11th Nanoscience and Nanotechnology Conference, 22 - 25 June 2015

### **Supported Projects**

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 tekniđi 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

## Citations

Total Citations (WOS):35

h-index (WOS):3