

# **Res. Asst. PhD Ayşegül ÇELİK BOZDOĞAN**

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## **International Researcher IDs**

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## **Education Information**

Doctorate, Yıldız Technical University, Fen Bilimleri, Turkey 2006 - 2012

Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 2003 - 2006

Undergraduate, Yıldız Technical University, Fen Edeb. Fak., Fizik, Turkey 1998 - 2003

## **Research Areas**

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

## **Academic Titles / Tasks**

Research Assistant PhD, Yıldız Technical University, Fen Edebiyat Fakültesi, Fizik, 2005 - Continues

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **The Effect of Storage Conditions and Time on the Antimicrobial Activities of CuO Nanoparticles**  
ORUÇ Ç., ÇELİK BOZDOĞAN A., KURT GÜR G.  
Journal of Materials Engineering and Performance, 2023 (SCI-Expanded)
- II. **Determination of the Optimum Annealing Temperature in the Production of CuO Nanoparticles with Antimicrobial Properties**  
Oruç Ç., Çelik Bozdoğan A., Kurt Gür G., Aşikoğlu Bozkurt A., Luş H. M.  
NANO, vol.17, no.2, pp.22500141-22500149, 2022 (SCI-Expanded)
- III. **Synthesis and characterization of a new hydrogen bonded side chain liquid crystal block copolymer and investigation of electrical properties**  
Korkmaz B., Ozerol E., Bozdogan A., Okutan M., Şenkal B. F., Gursel Y. H.  
Pure and Applied Chemistry, vol.89, no.1, pp.19-28, 2017 (SCI-Expanded)
- IV. **The effect on the impedance characteristics of the metal oxides (Al<sub>2</sub>O<sub>3</sub> and ZnO) doping into polyaniline**  
Özerol E., Bozdogan A., Şenkal B. F., Okutan M.  
Materials Science in Semiconductor Processing, vol.56, pp.357-361, 2016 (SCI-Expanded)
- V. **Temperature dependent Raman spectra of CsCdBr<sub>3</sub> and CsCdCl<sub>3</sub> crystals**  
DEMIRBILEK R., FEILE R., BOZDOĞAN A.

- JOURNAL OF LUMINESCENCE, vol.161, pp.174-179, 2015 (SCI-Expanded)
- VI. Electronic energy levels of RbCdBr<sub>3</sub> crystal  
Demirbilek R., Bozdogan A., Calskan M., Ozen G.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.248, no.7, pp.1723-1726, 2011 (SCI-Expanded)
- VII. Electronic energy levels of CsCdCl<sub>3</sub>  
Demirbilek R., Çelik Bozdoğan A., Çalışkan M., Asan G., Özgen G.  
Journal Of Luminescence, vol.131, pp.1853-1856, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. Effect of Au Grown on GaAs Substrate for Applying as Counter Electrode on Conversion Efficiency of Dye-Sensitized Solar Cells  
Gürbüz O., Kırsoy A., Aytan Kılıçarslan F., Çelik Bozdoğan A., Erden İ., Fırat Y.  
ENERGY AND ENVIRONMENT FOCUS, vol.5, pp.268-273, 2016 (Peer-Reviewed Journal)
- II. "The Structural and Electrical Characteristics of Ni/Si Junctions  
CAFER T., AYDIN YÜKSEL S., ÇELİK BOZDOĞAN A.  
Balkan Physics Letter, pp.456-459, 2007 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. Synthesis of TiO Doped Copper Oxide Nanoparticles by Sol-gel Method and Investigation of Antibacterial Properties for Escherichia Coli  
Çelik Bozdoğan A., Kurt Gür G.  
Türk Fizik Derneği, Muğla, Turkey, 4 - 08 September 2019, vol.1, pp.124
- II. Preparation and Characterization of Poly 2 Aminophenol Barium Titanate Composites  
Çoğalmış T., ÖZEROL E., ÇELİK BOZDOĞAN A., ŞENKAL B. F., OKUTAN M.  
Nanong 2016, 20 - 22 October 2016
- III. Preparation and Characterization of Poly (2-Aminophenol) Nanoclay Composites  
Çelik Bozdoğan A., Çoğalmış T., Ahlatçioğlu Özerol E., Okutan M., Şenkal B. F.  
Nanong 2016, Antalya, Turkey, 20 - 22 October 2016, pp.145-146
- IV. Preparation and Characterization of Poly (2-Aminophenol) Boron Nitride Composites  
ÇELİK BOZDOĞAN A., Çoğalmış T., Şenkal B. F., Okutan M.  
Nanong 2016, 01 October 2016
- V. Role of cathode electron in dye sensitized solar cell Effect of GaAs Au  
ÇELİK BOZDOĞAN A., KIRSOY A., GÜRBÜZ O., ERDEN İ., AYTAN KILIÇARSLAN F., OKUTAN M.  
12. International Nanoscience and Nanotechnology Conference, 3 - 05 June 2016
- VI. Preparation and Characterization of Poly 2 Anilinoethanol Barium Titanate Composites  
ÖZEROL E., ŞENKAL B. F., OKUTAN M., ÇELİK BOZDOĞAN A., Kaya Y.  
OEMT 2016, 17 - 19 May 2016
- VII. Preparation And Characterization of Poly ( N-Vinyl Carbazole) Nanoclay Composites  
ÇELİK BOZDOĞAN A., Şenkal B. F., Okutan M.  
Nanong2015, 01 October 2015
- VIII. Preparation And Characterization of Poly ( N-Vinyl Carbazole) Magnetite Composites  
ÇELİK BOZDOĞAN A., Şenkal B. F., Okutan M.  
Nanong2015, 01 October 2015
- IX. Preparation And Characterization of Poly ( N-Vinyl Carbazole) Boron Nitride Composites  
ÇELİK BOZDOĞAN A., Şenkal B. F., Okutan M.  
Nanong2015, 01 October 2015
- X. Investigation of Up-Conversion Mechanism in Ho<sup>3+</sup> Doped CsCdCl<sub>3</sub> Crystal

ÇELİK BOZDOĞAN A., İngin S., Çalışkan M., Demirbilek R.

EMRS-2015, 01 May 2015

XI. **Structural Magnetical and Electrical Properties of Magnetite Doped Polyaniline**

AHLATÇIOĞLU E., ÇELİK BOZDOĞAN A., BOZDOĞAN A., ŞENKAL B. F., OKUTAN M.

1st İnternational Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015

XII. **PREPARATION AND CHARACTERIZATION OF POLY Thiophene modified NANOCLAY COMPOSITES**

AHLATCIOĞLU E., ŞENKAL B. F., OKUTAN M., ÇELİK BOZDOĞAN A.

OEMT 2015, 25 - 28 March 2015

XIII. **Excitation and Emission Spectra of CsMgCl<sub>3</sub>, CsMgBr<sub>3</sub> and CsMgI<sub>3</sub>**

ÇELİK BOZDOĞAN A., Demirbilek R., Çalışkan M., Asan G., Özén G.

Photon12 IOP s premier event in optics and photonics, 01 September 2012

XIV. **Strange change of CsCdCl<sub>3</sub>-excitation spectra with temperature**

ÇELİK BOZDOĞAN A., Çalışkan M., Asan G., Özén G.

Photon12 IOP s premier event in optics and photonics, 01 September 2012

XV. **Temperature Dependence of Optical Spectra of CsCdCl<sub>3</sub>**

ÇELİK BOZDOĞAN A., Asan G., Özén G., Demirbilek R.

Türk Fizik Derneği 28. Uluslararası Fizik Kongresi, 01 September 2011

XVI. **CsCdCl<sub>3</sub> ve RbCdBr<sub>3</sub> Kristallerinin Elektronik Enerji Seviyeleri**

ÇELİK BOZDOĞAN A., Çalışkan M., Asan G., Özén G., Demirbilek R.

Türk Fizik Derneği 28. Uluslararası Fizik Kongresi, 01 September 2011

XVII. **Excitation and Emission Spectra of RbCdBr<sub>3</sub> Crystal and Their Temperature Dependence**

ÇELİK BOZDOĞAN A., Çalışkan M., Özén G., Demirbilek R.

27.TFD, 01 September 2010

XVIII. **Excitation and Emission Spectra of CsCdCl<sub>3</sub>**

ÇELİK BOZDOĞAN A., Asan G., Özén G., Demirbilek R.

27.TFD, 01 September 2010

XIX. **Excitation Spectra and Electronic Energy Levels of Some AMX<sub>3</sub>-Crystals**

ÇELİK BOZDOĞAN A., Asan G., Özén G., Demirbilek R.

27.TFD, 01 September 2010

XX. **Excitation and Emission Spectra of RbCdBr<sub>3</sub>**

ÇELİK BOZDOĞAN A., Asan G., Çalışkan M., Özén G., Demirbilek R.

11.Europhysical Conference on Defects in Insulating Materials, 01 July 2010

XXI. **Bazı AMX<sub>3</sub> Kristallerinin Örgü Elektronik Enerji Seviyeleri**

ÇELİK BOZDOĞAN A., Çalışkan M., Asan G., Özén G.

12.Uluslararası Optik, Elektro-Optik ve Fotonik Toplantısı, 01 May 2010

XXII. **Bridgman Yöntemi ile Büyütülmüş Bazı AMX<sub>3</sub> Kristallerinin Optik Absorbsiyon Spektrumları**

ÇELİK BOZDOĞAN A., Demirci E. Ç., Asan G., Çalışkan M., Özén G., Demirbilek R.

26.TFD, 01 September 2009

XXIII. **Bazı AMX<sub>3</sub> Kristallerinin Bridgman Yöntemi ile Büyütülmesi ve Karakterizasyonu**

ÇELİK BOZDOĞAN A., Kaygusuz H., Çalışkan M., Asan G., Keleş V., Özén G., Demirbilek R.

25.TFD, 01 September 2008

## Supported Projects

BOZDOĞAN A., OKUTAN M., ŞENKAL B. F., ÇELİK BOZDOĞAN A., Project Supported by Higher Education Institutions, Organik alan etkili transistörlerin elektronik özelliklerinin iyileştirilmesi, 2015 - 2018

ÇELİK BOZDOĞAN A., Project Supported by Higher Education Institutions, Ho<sup>3+</sup> katkılı CsCdCl<sub>3</sub> kristalinde yüksek enerjiye dönüşüm mekanizmasının araştırılması, 2014 - 2017

DEMİRBILEK R., ÇELİK BOZDOĞAN A., ÇALIŞCAN M., TUBITAK Project, Bazı AMX<sub>3</sub> kristallerinin kristal örgü elektronik enerji seviyelerinin araştırılması, 2007 - 2010

## **Metrics**

Publication: 33

Citation (WoS): 23

Citation (Scopus): 27

H-Index (WoS): 3

H-Index (Scopus): 3