

## Res. Asst. PhD Altan BOZDOĞAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAL-8882-2020

ScopusID: 15072691100

Yoksis Researcher ID: 51168

### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 2003 - 2010

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 2001 - 2003

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 1995 - 1999

### Foreign Languages

English, C2 Mastery

### Research Areas

Physics, Atomic and Molecular Physics, Natural Sciences

### Academic Titles / Tasks

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2010 - Continues

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2001 - 2010

### Academic and Administrative Experience

Assistant Manager of Research and Application Center, Yildiz Technical University, Bilim ve Teknoloji Uygulama ve Araştırma Merkezi, 2022 - Continues

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

- Influence of ultraviolet radiation on structural and uniaxial tensile characteristics of tannic acid/poly (vinyl alcohol) composite films**  
AKSAKAL B., DENKDAŞ C., BOZDOĞAN A.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.24, 2022 (SCI-Expanded)

- II. **Development and characterization of sodium alginate/bifidobacterium probiotic biohybrid material used in tissue engineering**  
Denktas C., Baysoy D. Y., Bozdoğan A., Bozkurt H. S., Bozkurt K., Özdemir O., Yılmaz M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.18, 2022 (SCI-Expanded)
- III. **Biodegradation of microplastic by probiotic bifidobacterium**  
Bozkurt H. S., CİVELEK YÖRÜKLÜ H., BOZKURT K., Denktas C., BOZDOĞAN A., ÖZDEMİR O., ÖZKAYA B.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.26, no.4, pp.429-443, 2022 (SCI-Expanded)
- IV. **Prestretching effect and recovery process of polyvinyl alcohol film crosslinked with tartaric acid**  
Bozdoğan A., Aksakal B., Denktas C., Salt Y.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.46, 2020 (SCI-Expanded)
- V. **Structural and tensile characteristics of reduced graphene oxide/poly (vinyl alcohol) composite films: Influence of ultraviolet irradiation**  
Bozdoğan A., Aksakal B., Yargı Ö., Sahinturk U.  
POLYMER COMPOSITES, vol.41, pp.3087-3100, 2020 (SCI-Expanded)
- VI. **Film formation and mechanical properties of an opaque titanium dioxide and transparent polyvinyl alcohol composite films**  
Bozdogan A., Aksakal B., Yargı Ö.  
POLYMER COMPOSITES, vol.41, no.3, pp.939-950, 2020 (SCI-Expanded)
- VII. **Influence of heating on spectroscopic, mechanical, and thermal properties of reduced graphene oxide-poly(vinyl alcohol) composite films**  
Bozdoğan A., Aksakal B., Sahinturk U., Yargı Ö.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1174, pp.133-141, 2018 (SCI-Expanded)
- VIII. **Effect of strain level on stress relaxation and recovery behaviors of isotactic biaxially oriented polypropylene films**  
BOZDOĞAN A., AKSAKAL B., KOÇ K., TSOBKALLO E. S.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.5, 2016 (SCI-Expanded)
- IX. **Uniaxial tensile properties of TiO<sub>2</sub> coated single wool fibers by sol-gel method: The effect of heat treatment**  
AKSAKAL B., KOÇ K., BOZDOĞAN A., TSOBKALLO K.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.130, no.2, pp.898-907, 2013 (SCI-Expanded)
- X. **Rigidity of heat-treated oriented isotactic polypropylene**  
TSOBKALLO K., TIKHOMIROV A., BOZDOĞAN A., TSHMEL A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.6, pp.6074-6080, 2006 (SCI-Expanded)

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

- I. **The Effect of Crosslinking Time on Mechanical Properties of Clinoptilolite-Sodium Alginate Films**  
Bozdoğan A.  
Turkish Physical 38th International Physics Congress, Muğla, Turkey, 31 August - 04 September 2022, vol.1, pp.57
- II. **Investigation of the structure of sodium alginate (SA)/Bifidobacterium animalis subsp. lactis BB-12 probiotic biohybrid films**  
Yılmaz M., Denktaş C., Yılmaz Baysoy D., Bozdoğan A., Bozkurt H. S., Bozkurt K., Özdemir O.  
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.251
- III. **Effect of Pre-Stretching Following Short Term Stress-Relaxation on Mechanical Performance of Polyvinyl Alcohol Membrane Crosslinked with Tartaric Acid**  
Aksakal B., Bozdoğan A., Denktas C., Salt Y.  
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, pp.1
- IV. **Effect of Crosslinking Concentration on Mechanical Performance of Polyvinyl Alcohol Membrane Crosslinked with Tartaric Acid**

Bozdoğan A., Aksakal B., Denктаş C., Salt Y.

Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, pp.1

- V. **The Improvement of Electronical Properties of Organic Field Effect Transistor**  
BOZDOĞAN A.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 05 September 2018, pp.188
- VI. **Small Particle Size Effect on Photon Transmission from Polyvinyl Alcohol (PVA) and Titanium Dioxide (TiO<sub>2</sub>) Composite Films**  
YARGI Ö., Özer T., BOZDOĞAN A., AKSAKAL B., Gez H. S., Yılmaz İ.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 05 September 2018, pp.489
- VII. **Influence of Concentration of Rutile Titanium Dioxide (TiO<sub>2</sub>) Nanoparticles on the Tensile Properties of TiO<sub>2</sub>/Poly(Vinyl) Alcohol (PVA) Composites**  
AKSAKAL B., BOZDOĞAN A., YARGI Ö., Gez H. S., Yılmaz İ.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 05 September 2018, pp.475
- VIII. **Uniaxial Tensile and Structural Properties of Poly(Vinyl Alcohol) and Titanium Dioxide Composite Films: The Influence of Small Particle Size**  
BOZDOĞAN A., AKSAKAL B., YARGI Ö., Gez H. S., Yılmaz İ.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 05 September 2018, pp.498
- IX. **Mechanical, Electrical and Optical Properties of Poly(vinyl alcohol) and Graphene Oxide Composites: The Influence of UV Irradiation**  
BOZDOĞAN A., ÇALIŞKAN M., AKSAKAL B., ŞAHİNTÜRK U., YARGI Ö.  
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 06 September 2017, pp.626
- X. **Uniaxial Tensile and Structural Properties of Poly(vinyl alcohol) and Graphene Oxide Composite Films with Different Weight ratios: The Influence of Heating**  
BOZDOĞAN A., AKSAKAL B., Şahintürk U., YARGI Ö., ÇALIŞKAN M.  
TURCMOS 2017 International Turkish Congress on Molecular Spectroscopy, Muğla, Turkey, 26 August 2017, pp.144
- XI. **Heating Effect on Spectroscopic and Mechanical Properties of rGO/PVA Composite Films**  
BOZDOĞAN A., AKSAKAL B., ŞAHİNTÜRK U., YARGI Ö., Gez H. S.  
TURCMOS 2017 International Turkish Congress on Molecular Spectroscopy, Muğla, Turkey, 26 August 2017, pp.149
- XII. **Influence of UV Irradiation on the Structural and Mechanical Properties of TiO<sub>2</sub>/GO/PVA Composite Films**  
Aksakal B., Bozdoğan A., Şahintürk U., Çalışkan M., Yargı Ö.  
TURCMOS 2017 International Turkish Congress on Molecular Spectroscopy, Muğla, Turkey, 26 August 2017, pp.148
- XIII. **Structural Magnetical and Electrical Properties of Magnetite Doped Polyaniline**  
AHLATÇIOĞLU E., ÇELİK BOZDOĞAN A., BOZDOĞAN A., ŞENKAL B. F., OKUTAN M.  
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- XIV. **Uniaxial Tensile Properties of Uncoated and TiO<sub>2</sub> Coated Single Wool Fibers Exposed to Thermal Treatment**  
AKSAKAL B., KOÇ K., BOZDOĞAN A., TSOBKALLO E. S.  
Turkish Physical Society 29th International Physics Conference, 5 - 08 September 2012
- XV. **Stress Relaxation and Recovery Process in Oriented Polypropylene Films**  
BOZDOĞAN A., AKSAKAL B., TSOBKALLO E. S.  
Turkish Physical Society 28th International Physics Congress, 6 - 09 September 2011
- XVI. **Straight-Chain Segment Length Distribution in Isotactic Polypropylene as Revealed by X-Ray Diffraction Method**  
Bozdoğan A., Tsobkallo E. S., Tshmel A.  
27th International Physics Congress, İstanbul, Turkey, 14 - 17 September 2010, vol.1, pp.429
- XVII. **Tavlama Olayının Polimerlerin Elektriksel Özelliklerine Etkileri**  
Bozdoğan A., Tsobkallo E. S., Alekberov V. A.

26. Uluslararası Fizik Kongresi, Muğla, Turkey, 24 - 27 September 2009, vol.1, pp.292

**XVIII. Tavlama Olayının Polimerik Sistemlerin Mekanik Özelliklerine Etkileri**

Bozdoğan A., Tsobkallo E. S., Alekberov V. A.

25. Uluslararası Fizik Kongresi, Muğla, Turkey, 25 - 29 August 2008, vol.1, pp.316

## Supported Projects

ERSUNDU A. E., ÇELİKBİLEK ERSUNDU M., AKYOL F., BOZDOĞAN A., EKİM U., Project Supported by Higher Education Institutions, Optik termometri uygulamalarına yönelik nadir toprak elementi katkılı fosforların geliştirilmesi, 2023 - 2024  
AKSAKAL B., ÇALIŞKAN M., DENKDAŞ C., YARGI Ö., TURHAN K., BOZDOĞAN A., Project Supported by Higher Education Institutions, Polimer/ipek Fibroin Biyokompozit Filmlerinin Mekanik, Yapısal ve İyileşme Özelliklerinin İncelenmesi, 2021 - 2023

DENKTAŞ C., SALT Y., BOZDOĞAN A., AKSAKAL B., ÇALIŞKAN M., YARGI Ö., Project Supported by Higher Education Institutions, PVA Tabanlı Karışık Matris Membranların KMM Mekanik ve Termal Davranışlarının İncelenmesi, 2020 - 2023

AKSAKAL B., YARGI Ö., GELİR A., BOZDOĞAN A., ŞAHİNTÜRK U., Project Supported by Higher Education Institutions, Titanyum Dioksit/Polivinil Alkol Kompozit Filmlerinin Çekme Özelliklerine Sıcaklık, İlk Uzama (çekme), ve Ultraviyole Radyasyonun Etkisi, 2016 - 2019

AKSAKAL B., GELİR A., BOZDOĞAN A., YARGI Ö., ŞAHİNTÜRK U., Project Supported by Higher Education Institutions, Farklı Isıtma Tekniklerinin Grafen Oksit/Polivinil Alkol Kompozit Filmlerinin Mekanik Özelliklerine Etkisi, 2016 - 2019  
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

Demirbilek R., Çalışkan M., Bozdoğan A., Asan G., Project Supported by Higher Education Institutions, Bridgman metoduna göre bir Kristal büyütme düzeneğinin kurulması ve La<sub>3</sub>/Eu<sub>3</sub>:CsCdCl<sub>3</sub> kristalinin optik spektroskopisi ile incelenmesi, 2012 - 2014

Özcanlı Y., Alekberov V., Alkan Ü., Bozdoğan A., Project Supported by Higher Education Institutions, POLİMERİK KOMPOZİTLERİN MEKANİK VE ELEKTRİK ÖZELLİKLERİNİN KARARLI HALE GETİRİCİ VE YIPRATICI FAKTÖRLERİN ETKİSİ ALTINDA İNCELENMESİ, 2007 - 2011

## Scientific Refereeing

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, June 2022

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, August 2018

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, June 2018

## Mobility Activity

Other Exchange Programme, Post Doc, Albert-Ludwigs-Universitaet Freiburg im Breisgau, Germany, 2013 - 2014

Other Exchange Programme, Get Education, Saint Petersburg Devlet Teknoloji ve Dizayn Üniversitesi, Russia, 2006 - 2006

Other Exchange Programme, Get Education, Saint Petersburg Devlet Teknoloji ve Dizayn Üniversitesi, Russia, 2006 - 2006

## Metrics

Publication: 29

Citation (WoS): 71

Citation (Scopus): 80

H-Index (WoS): 6

H-Index (Scopus): 6

## **Scholarships**

HEI Postoc Research Fund, YOK, 2013 - 2014