

## Lect. PhD ARDA AYTİMUR

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-7970-2012

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### Education Information

Associate Degree, Ataturk University, Açıköğretim Fakültesi, Acil Durum Ve Afet Yönetimi, Turkey 2023 - Continues

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler (Dr), Turkey 2016 - 2022

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler (YI) (Tezli), Turkey 2012 - 2015

Undergraduate, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 2007 - 2012

### Research Areas

Ceramic Materials, Semiconductor and Superconductor Materials, Optical Properties, Testing and Control of Materials, Mechanical Properties, Physical Properties, Electrical and Magnetic Properties, Composites, Glass Technology and Glass Ceramics, Polymeric Materials, Material Characterization, Metallic Materials, Nanomaterials, Thermal Properties, Materials Science, Structure of Liquids and Solids; Crystallography, Optical Properties, Spectroscopy of Matter, Atomic and Molecular Spectroscopy, Separation Methods, Emission Spectroscopy, Infrared Spectroscopy, Chromatographic Analysis, Mass Spectroscopy, Micro and Semimicro Methods, Raman Spectroscopy, Spectroscopical Methods, Thermal Methods, Surface Analysis, Composites, Fiber Technology, nanocomposites, Characterization of Polymers, Polymeric Films, Polymeric Materials, Spectroscopy

### Academic Titles / Tasks

Lecturer PhD, Bilecik Seyh Edebali University, Rektörlük, 2022 - Continues

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

- I. **Graphene-doped  $\text{Ca}_{0.9}\text{Er}_{0.1}\text{Mn}_{1.50\alpha}$  thermoelectric nanocomposite materials: Temperature-dependent thermal and Seebeck properties**  
Koçyiğit S., AYTİMUR A., Uslu İ.  
Ceramics International, vol.46, no.5, pp.6377-6382, 2020 (SCI-Expanded)
- II. **Graphene-doped  $\text{Ca}_{0.9}\text{Er}_{0.1}\text{Mn}_{1.0-5(\alpha)}$  thermoelectric nanocomposite materials: Temperature-dependent thermal and Seebeck properties**  
Koçyiğit S., Aytimur A., Uslu İ.

CERAMICS INTERNATIONAL, vol.46, no.5, pp.6377-6388, 2020 (SCI-Expanded)

- III. **Temperature dependent Seebeck coefficient and thermal conductivity properties of graphene undoped and doped Ca-Pr-Co oxide thermoelectric nanocomposites**  
Koçyiğit S., AYTİMUR A., Uslu I.  
Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, vol.37, no.6, 2019 (SCI-Expanded)
- IV. **Synthesis of boron and rare earth stabilized graphene doped polyvinylidene fluoride (PVDF) nanocomposite piezoelectric materials**  
Badali Y., Koçyiğit S., AYTİMUR A., ALTINDAL Ş., Uslu İ.  
Polymer Composites, vol.40, no.9, pp.3623-3633, 2019 (SCI-Expanded)
- V. **The investigation of dielectric properties and ac conductivity of Au/GO-doped PrBaCoO nanoceramic/n-Si capacitors using impedance spectroscopy method**  
Kaya A., Alialy S., Demirezen S., BALBAŞI M., Yerişkin S., AYTİMUR A.  
Ceramics International, vol.42, no.2, pp.3322-3329, 2016 (SCI-Expanded)
- VI. **Preparation and characterization of polyvinyl alcohol based copolymers as wound dressing fibers**  
AYTİMUR A., Koçyiğit S., Uslu I., Gökmeşe F.  
International Journal of Polymeric Materials and Polymeric Biomaterials, vol.64, no.3, pp.111-116, 2015 (SCI-Expanded)
- VII. **Calcium Stabilized Ceria Doped Zirconia Nanocrystalline Ceramic**  
AYTİMUR A., Koçyiğit S., Uslu İ.  
Journal of Inorganic and Organometallic Polymers and Materials, vol.24, no.6, pp.927-932, 2014 (SCI-Expanded)
- VIII. **Boron undoped and doped europium-bismuth oxide nanocomposites via the polymeric precursor technique**  
AYTİMUR A., Koçyiğit S., TEMEL S., Uslu I.  
JOM, vol.66, no.8, pp.1479-1484, 2014 (SCI-Expanded)
- IX. **Synthesis, characterization, and thermoelectric properties of electrospun boron-doped barium-stabilized bismuth-cobalt oxide nanoceramics**  
Çinar E., Koçyiğit S., AYTİMUR A., Uslu I., Akdemir A.  
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.45, no.9, pp.3929-3937, 2014 (SCI-Expanded)
- X. **SAXS and WAXS analysis of MgO doped ZnO nanostructured ceramics grown on Si and glass substrate**  
Orujalipoor I., AYTİMUR A., Tükel C., İDE S., Uslu I.  
Journal of Sol-Gel Science and Technology, vol.70, no.1, pp.125-132, 2014 (SCI-Expanded)
- XI. **Boron-doped strontium-stabilized bismuth cobalt oxide thermoelectric nanocrystalline ceramic powders synthesized via electrospinning**  
Koçyiğit S., AYTİMUR A., Çinar E., Uslu I., Akdemir A.  
JOM, vol.66, no.1, pp.30-36, 2014 (SCI-Expanded)
- XII. **Polymer-derived yttria stabilized bismuth oxide nanocrystalline ceramics**  
AYTİMUR A., Uslu I., Durmuşoğlu Ş., Akdemir A.  
Ceramics International, vol.40, no.8 PART B, pp.12899-12903, 2014 (SCI-Expanded)
- XIII. **Synthesis and characterization of boron-doped bismuth oxide-erbium oxide fiber derived nanocomposite precursor**  
AYTİMUR A., Koçyiğit S., Uslu I., Durmuşoğlu Ş., Akdemir A.  
Journal of Composite Materials, vol.48, no.19, pp.2317-2324, 2014 (SCI-Expanded)
- XIV. **Structural investigation of boron undoped and doped indium stabilized bismuth oxide nanoceramic powders**  
Koçyiğit S., Gökmen Ö., TEMEL S., AYTİMUR A., Uslu I., Haman Bayarı S.  
Ceramics International, vol.39, no.7, pp.7767-7772, 2013 (SCI-Expanded)
- XV. **Preparation of PVA/PAA/PEG/PVP nanofibers with HPMC and aloe vera**  
Uslu I., AYTİMUR A., Serinçay H.  
Current Nanoscience, vol.9, no.4, pp.489-493, 2013 (SCI-Expanded)

- XVI. **Fabrication and characterisation of boron doped barium stabilised bismuth cobalt oxide nanocrystalline ceramic composite**  
Uslu I., Çinar E., Koçyiğit S., AYTİMUR A., Akdemir A.  
Advances in Applied Ceramics, vol.112, no.6, pp.336-340, 2013 (SCI-Expanded)
- XVII. **A study of polymer-derived erbia-doped Bi<sub>2</sub>O<sub>3</sub> nanocrystalline ceramic powders**  
AYTİMUR A., Taşcıoğlu I., ARI M., Uslu I., Dağdemir Y., Durmuş S., ALTINDAL Ş.  
Journal of Sol-Gel Science and Technology, vol.66, no.2, pp.317-323, 2013 (SCI-Expanded)
- XVIII. **Fabrication and characterization of bismuth oxide-holmia nanofibers and nanoceramics**  
AYTİMUR A., Koçyiğit S., Uslu I., Durmuşoğlu Ş., Akdemir A.  
Current Applied Physics, vol.13, no.3, pp.581-586, 2013 (SCI-Expanded)
- XIX. **Synthesis and characterization of boron doped bismuth-calcium-cobalt oxide nanoceramic powders via polymeric precursor technique**  
AYTİMUR A., Uslu I., Çinar E., Koçyiğit S., Özcan F., Akdemir A.  
Ceramics International, vol.39, no.2, pp.911-916, 2013 (SCI-Expanded)
- XX. **Synthesis and characterization of erbia and ceria doped calcia stabilized nanocrystalline zirconia based ceramics**  
Uslu I., AYTİMUR A., Koçyiğit S., Özcan F., ÖZTÜRK M. A., Çolak Ü.  
Journal of Sol-Gel Science and Technology, vol.65, no.2, pp.112-120, 2013 (SCI-Expanded)
- XXI. **Crystal structure and electrical properties of gadolinia doped bismuth oxide nanoceramic powders**  
ARI M., Taşcıoğlu I., Altındal S., Uslu I., AYTİMUR A., KARAASLAN T., Koçyigit S.  
Materials Chemistry and Physics, vol.136, no.2-3, pp.942-946, 2012 (SCI-Expanded)
- XXII. **Synthesis and characterization of neodymium doped ceria nanocrystalline ceramic structures**  
Uslu I., AYTİMUR A., Öztürk M. K., Koçyigit S.  
Ceramics International, vol.38, no.6, pp.4943-4951, 2012 (SCI-Expanded)
- XXIII. **Synthesis and Properties of Boron Doped Na<sub>x</sub>Co<sub>2</sub>O<sub>4</sub> Nanocrystalline Ceramics**  
Uslu I., AYDIN S. Ş., AYTİMUR A., Yuceyurt S., Erdal M.  
Journal of Inorganic and Organometallic Polymers and Materials, vol.22, no.4, pp.766-771, 2012 (SCI-Expanded)
- XXIV. **Magnesia stabilized zirconia doped with boron, ceria and gadolinia**  
AYTİMUR A., Uslu I., Koçyiğit S., Özcan F.  
Ceramics International, vol.38, no.5, pp.3851-3856, 2012 (SCI-Expanded)
- XXV. **Characterization of Mg doped ZnO nanocrystallites prepared via electrospinning**  
AYDIN S. Ş., Uslu I., AYTİMUR A., ÖZÇELİK S.  
Ceramics International, vol.38, no.5, pp.4201-4208, 2012 (SCI-Expanded)
- XXVI. **Production and characterization of poly(vinyl alcohol)/ poly(vinylpyrrolidone) iodine/poly(ethylene glycol) electrospun fibers with (hydroxypropyl)methyl cellulose and aloe vera as promising material for wound dressing**  
Uslu I., AYTİMUR A.  
Journal of Applied Polymer Science, vol.124, no.4, pp.3520-3524, 2012 (SCI-Expanded)
- XXVII. **Synthesis and Characterization of Boron-Doped Hafnia Electrospun Nanofibers and Nanocrystalline Ceramics**  
Uslu I., Tunç T., ÖZTÜRK M. A., AYTİMUR A.  
Polymer - Plastics Technology and Engineering, vol.51, no.3, pp.257-262, 2012 (SCI-Expanded)
- XXVIII. **Preparation of Gadolinia Stabilized Bismuth Oxide Doped with Boron via Electrospinning Technique**  
Tunç T., Uslu I., Durmuşoğlu Ş., Keskin S., AYTİMUR A., Akdemir A.  
Journal of Inorganic and Organometallic Polymers and Materials, vol.22, no.1, pp.105-111, 2012 (SCI-Expanded)
- XXIX. **Preparation and characterization of neodymia doped PVA/Zr-Ce oxide nanocrystalline composites via electrospinning technique**  
Keskin S., Uslu I., Tunç T., Öztürk M., AYTİMUR A.  
Materials and Manufacturing Processes, vol.26, no.11, pp.1346-1351, 2011 (SCI-Expanded)
- XXX. **Synthesis and characterization of boron-doped Bi<sub>2</sub>O<sub>3</sub> - La<sub>2</sub>O<sub>3</sub> fiber derived nanocomposite precursor**

## Articles Published in Other Journals

- I. **Promising Materials for Wound Dressing: PVA/PAA/PVP Electrospun Nanofibers**  
AYTİMUR A., Uslu I.  
Polymer - Plastics Technology and Engineering, vol.53, no.7, pp.655-660, 2014 (Scopus)
- II. **Preparation and Characterization of PVA/PVP Nanofibers as Promising Materials for Wound Dressing**  
GökmeŐe F., Uslu I., AYTİMUR A.  
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.52, no.12, pp.1259-1265, 2013 (Scopus)
- III. **Synthesis and Characterization of Poly(vinyl alcohol)/Poly(vinyl pyrrolidone)-Iodine Nanofibers with Poloxamer 188 and Chitosan**  
AYTİMUR A., Koçyiđit S., Uslu I.  
Polymer - Plastics Technology and Engineering, vol.52, no.7, pp.661-666, 2013 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **PRODUCTION OF ANTIMICROBIAL NANOCOMPOSITE FILM CONTAINING SILVER NANOPARTICLES BY GREEN SYNTHESIS METHOD**  
ŐENSOY GÜN B., AYTİMUR A., Karagöl Ç., GURBANOV R.  
4. BİLSEL INTERNATIONAL HARPUT SCIENTIFIC RESEARCHES CONGRESS, 09 November 2024
- II. **Zinc and Aloe Vera Doped Bicompatible Polymer Based Antimicrobial Nanofibrous Food Packaging Materials**  
SARIGİL N., SERİNÇAY H., USLU İ., AYTİMUR A.  
10. Nanobilim ve Nanoteknoloji Konferansı (NANOTR-10), İstanbul, Turkey, 17 - 21 June 2014
- III. **Graphene and Boron Doped Polyvinylidene Fluoride Piezoelectric Materials**  
BADALI Y., AYTİMUR A., USLU İ., ALTINDAL Ő.  
10. Nanobilim ve Nanoteknoloji Konferansı (NANOTR-10), İstanbul, Turkey, 17 - 21 June 2014
- IV. **Boron doped calcia stabilized bismuth cobalt oxide thermoelectric nanocrystalline ceramics**  
KOÇYIĐIT S., AYTİMUR A., USLU İ., ÇINAR E., AKDEMİR A.  
9. Nanobilim ve Nanoteknoloji Konferansı (NANOTR-9), Erzurum, Turkey, 24 - 28 June 2013
- V. **Fabrication and characterization of neodymium partially substituted calcium-cobalt oxide nanocrystalline ceramics**  
AYTİMUR A., KOÇYIĐIT S., USLU İ.  
9. Nanobilim ve Nanoteknoloji Konferansı (NANOTR-9), Erzurum, Turkey, 24 - 28 June 2013
- VI. **Calcium stabilized ceria doped zirconia nanocrystalline ceramic**  
AYTİMUR A., KOÇYIĐIT S., USLU İ.  
9. Nanobilim ve Nanoteknoloji Konferansı (NANOTR-9), Erzurum, Turkey, 24 - 28 June 2013
- VII. **Preparation of nanoceramic La-doped Bi<sub>2</sub>O<sub>3</sub>**  
DURMUŐOĐLU Ő., AYTİMUR A., KESKİN ORAL S., USLU İ., AKDEMİR A.  
6. Nanobilim ve Nanoteknoloji Konferansı (NANOTR-6), İzmir, Turkey, 15 - 18 June 2010
- VIII. **Synthesis and characterization of Na<sub>x</sub>Co<sub>2</sub>O<sub>4</sub> thermoelectric material using PVA polymerized complex**  
ERDAL M. O., AYTİMUR A., USLU İ., KOYUNCU M.  
6. Nanobilim ve Nanoteknoloji Konferansı (NANOTR-6), İzmir, Turkey, 15 - 18 June 2010

## Activities in Scientific Journals

## **Metrics**

Publication: 41

Citation (WoS): 550

Citation (Scopus): 601

H-Index (WoS): 15

H-Index (Scopus): 15

## **Scholarships**

2211-A National PhD Scholarship Program, TUBITAK, 2017 - 2020

2210-A National MSc/MA Scholarship Program, TUBITAK, 2012 - 2014