

# Prof. Erdal SÖNMEZ

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: U-3487-2018

ScopusID: 6701531692

Yoksis Researcher ID: 171161

## Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2004 - 2009

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Eğitimi, Turkey 2001 - 2004

Undergraduate, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Fizik Öğretmenliği, Turkey 1997 - 2001

## Foreign Languages

Arabic, B1 Intermediate

English, B2 Upper Intermediate

## Dissertations

Doctorate, NdBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Süperiletken İnce Filmlerinde Yapay Çivileme Merkezleri, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2009

Postgraduate, Öğrencilerin Yetenek, İlgi ve Değerlerinin Fizik Öğrenme Başarısına Etkisi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Eğitimi, 2004

## Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Superconductivity, Natural Sciences

## Academic Titles / Tasks

Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2024 - Continues  
Associate Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2016 - 2024

Assistant Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2009 - 2016

Research Assistant, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2003 - 2009

## Courses

Nanophysics, Postgraduate, 2020 - 2021

## Advising Theses

Sönmez E., Boya duyarlı güneş gözelerinde karşıt elektrot olarak kullanılan tek tabaka grafen üzerinde büyütülmüş CuInSe<sub>2</sub> ince filmlerinin karakteristiklerinin incelenmesi, Doctorate, A.AKDAĞ(Student), 2020

Sönmez E., CdS/CdTe güneş hücrelerinde MoS<sub>2</sub> ince filminin ara tabaka olarak kullanılması ve etkisi, Doctorate, A.EFE(Student), 2020

SÖNMEZ E., Kimyasal püskürtme yöntemi ile hazırlanan çinko oksit nanoçubukların üretimi, karakterizasyonu ve boya duyarlı güneş pili uygulamaları, Postgraduate, M.Büyükdin(Student), 2018

SÖNMEZ E., Fizik dersi optik ünitesi öğretiminde jigsaw tekniğinin 10. sınıf öğrencilerinin akademik başarısına etkisi, Postgraduate, M.Yavuz(Student), 2016

SÖNMEZ E., Düşük sıcaklıklarda bor nitrid eldesi ve karakterizasyonu, Postgraduate, E.Demiray(Student), 2016

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

- I. **Safety Assessments of Nickel Boride Nanoparticles on the Human Pulmonary Alveolar Cells by Using Cell Viability and Gene Expression Analyses**  
Türkez H., Arslan M. E., Sönmez E., Tatar A., Geyikoğlu F., Açıkyıldız M., Mardinoglu A.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.7, pp.2602-2611, 2021 (SCI-Expanded)
- II. **Effect of in-/ex-situ annealing temperature on the optical, structural and gas sensing dynamics of CdS nanostructured thin films**  
Gormez A. E., Basyooni M. A., Zaki S. E., EKER Y. R., SÖNMEZ E., YILMAZ M.  
SUPERLATTICES AND MICROSTRUCTURES, vol.142, 2020 (SCI-Expanded)
- III. **Europium incorporation dynamics within NiO films deposited by sol-gel spin coating: Experimental and theoretical studies**  
Goumri-Said S., Khan W., Boubaker K., Turgut G., Sonmez E., Minar J., Bououdina M., Kanoun M. B.  
MATERIALS RESEARCH BULLETIN, vol.118, 2019 (SCI-Expanded)
- IV. **Microarray assisted toxicological investigations of boron carbide nanoparticles on human primary alveolar epithelial cells**  
Türkez H., Arslan M. E., SÖNMEZ E., GEYİKOĞLU F., Açıkyıldız M., TATAR A.  
Chemico-Biological Interactions, vol.300, pp.131-137, 2019 (SCI-Expanded)
- V. **Synthesis, characterization and cytotoxicity of boron nitride nanoparticles: emphasis on toxicogenomics**  
Türkez H., Arslan M. E., SÖNMEZ E., Açıkyıldız M., TATAR A., GEYİKOĞLU F.  
Cytotechnology, vol.71, no.1, pp.351-361, 2019 (SCI-Expanded)
- VI. **Toxicogenomic responses of human alveolar epithelial cells to tungsten boride nanoparticles.**  
Türkez H., Arslan M. E., SÖNMEZ E., TATAR A., Açıkyıldız M., GEYİKOĞLU F.  
Chemico-biological interactions, vol.273, pp.257-265, 2017 (SCI-Expanded)
- VII. **Cytotoxicity analysis of tellurium dioxide nanoparticles on cultured human pulmonary alveolar epithelial and peripheral blood cell cultures.**  
AYDIN N., ARSLAN M. E., SÖNMEZ E., TÜRKEZ H.

BIOMEDICAL RESEARCH-INDIA, vol.28, no.7, pp.3300-3304, 2017 (SCI-Expanded)

- VIII. **Toxicity assessment of hydroxyapatite nanoparticles in rat liver cell model in vitro**  
SÖNMEZ E., CACCIORATE I., BAKAN F., TÜRKEZ H., MOKHTAR Y. I., TOGAR B., DÌ STEFANO A.  
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.35, no.10, pp.1073-1083, 2016 (SCI-Expanded)
- IX. **Genotoxicity in primary human peripheral lymphocytes after exposure to lithium titanate nanoparticles in vitro**  
Akbaba G. B., Turkez H., SÖNMEZ E., TATAR A., YILMAZ M.  
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.32, no.8, pp.1423-1429, 2016 (SCI-Expanded)
- X. **Investigation of Structural, Morphological, Optical, and Electrical Properties of Al Doped ZnO Thin Films Via Spin Coating Technique**  
YILMAZ M., TATAR D., SÖNMEZ E., ÇIRAK Ç., AYDOĞAN Ş., Gunturkun R.  
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.46, no.4, pp.489-494, 2016 (SCI-Expanded)
- XI. **A study of Eu incorporated ZnO thin films: An application of Al/ZnO:Eu/p-Si heterojunction diode**  
Turgut G., Duman S., SÖNMEZ E., Ozcelik F. S.  
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.206, pp.9-16, 2016 (SCI-Expanded)
- XII. **Health risk assessments of lithium titanate nanoparticles in rat liver cell model for its safe applications in nanopharmacology and nanomedicine**  
Turkez H., SÖNMEZ E., DÌ STEFANO A., MOKHTAR Y. I.  
CYTOTECHNOLOGY, vol.68, no.2, pp.291-302, 2016 (SCI-Expanded)
- XIII. **In vitro genotoxicity evaluation of tungsten (VI) oxide nanopowder using human lymphocytes.**  
AKBABA G. B., TÜRKEZ H., SÖNMEZ E., AKBABA U., AYDIN E., TATAR A., TURGUT G., ÇERİĞ S.  
BIOMEDICAL RESEARCH-INDIA, vol.27, no.1, pp.229-234, 2016 (SCI-Expanded)
- XIV. **CYTOTOXICITY AND GENOTOXICITY OF IRON OXIDE NANOPARTICLES: AN IN VITRO BIOSAFETY STUDY**  
SÖNMEZ E., AYDIN E., TÜRKEZ H., ÖZBEK E., TOGAR B., MERAL K., ÇETİN D., CACCIAIORE I., DÌ STEFANO A.  
ARCHIVES OF BIOLOGICAL SCIENCES, vol.68, no.1, pp.41-50, 2016 (SCI-Expanded)
- XV. **Influences of Pr and Ta doping concentration on the characteristic features of FTO thin film deposited by spray pyrolysis**  
TURGUT G., KOÇYİĞİT A., SÖNMEZ E.  
CHINESE PHYSICS B, vol.24, no.10, 2015 (SCI-Expanded)
- XVI. **Hepatic effects of yttrium oxide nanoflowers: in vitro risk evaluation**  
SÖNMEZ E., Turkez H., Aydın E., ÖZGERİŞ F. B., Öztetik E., Kerli S., CACCIAIORE I., STEFANO A. D.  
TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY, vol.97, no.5, pp.599-608, 2015 (SCI-Expanded)
- XVII. **Determination of certain sol-gel growth parameters of nickel oxide films**  
TURGUT G., SÖNMEZ E., Duman S.  
CERAMICS INTERNATIONAL, vol.41, no.2, pp.2976-2989, 2015 (SCI-Expanded)
- XVIII. **Evaluation of an Nd doping effect on characteristic properties of tin oxide**  
TURGUT G., SÖNMEZ E., Duman S.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.30, pp.233-241, 2015 (SCI-Expanded)
- XIX. **The effect of annealing temperature on the electrical characterization of Co/n type GaP Schottky diode**  
Orak I., Ejderha K., SÖNMEZ E., Alanyalioglu M., TÜRÜT A.  
MATERIALS RESEARCH BULLETIN, vol.61, pp.463-468, 2015 (SCI-Expanded)
- XX. **The effect of Mo and F double doping on structural, morphological, electrical and optical properties of spray deposited SnO<sub>2</sub> thin films**  
Turgut G., Sönmez E., Aydın S., Dilber R., Turgut Ü.  
CERAMICS INTERNATIONAL, vol.40, pp.12891-12898, 2014 (SCI-Expanded)
- XXI. **Characteristic evaluation on spray-deposited WFTO thin films as a function of W doping ratio**  
Turgut G., Keskenler E. F., Aydın S., Tatar D., Sönmez E., Dogan S., Duzgun B.

- RARE METALS, vol.33, pp.433-441, 2014 (SCI-Expanded)
- XXII. **A Study of Pb-Doping Effect on Structural, Optical, and Morphological Properties of ZnO Thin Films Deposited by Sol-Gel Spin Coating**  
TURGUT G., SÖNMEZ E.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.8, pp.3675-3685, 2014 (SCI-Expanded)
- XXIII. **The Risk Evaluation of Tungsten Oxide Nanoparticles in Cultured Rat Liver Cells for Its Safe Applications in Nanotechnology**  
Turkez H., SÖNMEZ E., TURKEZ O., Mokhtar Y. I., di Stefano A., TURGUT G.  
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.57, no.4, pp.532-541, 2014 (SCI-Expanded)
- XXIV. **The variation of the features of SnO<sub>2</sub> and SnO<sub>2</sub>:F thin films as a function of V dopant**  
Turgut G., SÖNMEZ E., YILMAZ M., ÇÖGENLİ M. S., Yılmaz M., TURGUT Ü., DİLBER R.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, no.6, pp.2808-2828, 2014 (SCI-Expanded)
- XXV. **Synthesis and characterization of Mo doped SnO<sub>2</sub> thin films with spray pyrolysis**  
TURGUT G., SÖNMEZ E.  
SUPERLATTICES AND MICROSTRUCTURES, vol.69, pp.175-186, 2014 (SCI-Expanded)
- XXVI. **Evaluation of cytotoxic, oxidative stress and genotoxic responses of hydroxyapatite nanoparticles on human blood cells**  
Turkez H., YOUSEF M. I., SÖNMEZ E., TOGAR B., Bakan F., SOZIO P., STEFANO A. D.  
JOURNAL OF APPLIED TOXICOLOGY, vol.34, no.4, pp.373-379, 2014 (SCI-Expanded)
- XXVII. **An investigation of Zn/ZnO:Al/p-Si/Al heterojunction diode by sol-gel spin coating technique**  
TURGUT G., DUMAN S., ÖZÇELİK F., SÖNMEZ E., GÜRBULAK B.  
Journal of Sol-Gel Science and Technology, vol.71, no.3, pp.589-596, 2014 (SCI-Expanded)
- XXVIII. **Comparison of some physical properties for SnO<sub>2</sub>, SnO<sub>2</sub>: F and SnO<sub>2</sub>: Sb films deposited on glass substrates**  
TATAR D., TURGUT G., SÖNMEZ E., DÜZGÜN B.  
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.15, pp.1026-1031, 2013 (SCI-Expanded)
- XXIX. **A study on characterization of Al/ZnS/p-Si/Al heterojunction diode synthesized by sol-gel technique**  
Turgut G., Keskenler E. F., Aydın S., Dogan S., Duman S., Sönmez E., Esen B., Duzgun B.  
MATERIALS LETTERS, vol.102, pp.106-108, 2013 (SCI-Expanded)
- XXX. **Effect of Nb doping on structural, electrical and optical properties of spray deposited SnO<sub>2</sub> thin films**  
Turgut G., Keskenler E. F., Aydın S., Sönmez E., Dogan S., Duzgun B., Ertuğrul M.  
SUPERLATTICES AND MICROSTRUCTURES, vol.56, pp.107-116, 2013 (SCI-Expanded)
- XXXI. **Enhanced critical current density using Nd<sub>2</sub>O<sub>3</sub> nano-islands on NdBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> thin films prepared by PLD**  
SÖNMEZ E., ERTUĞRUL M.  
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.62, no.1, 2013 (SCI-Expanded)
- XXXII. **Doping of Nb to the Ba and Cu sites in the Y<sub>0.6</sub>Gd<sub>0.4</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>**  
Yılmaz M., SÖNMEZ E., Doğan O.  
Journal of Low Temperature Physics, vol.171, pp.107-119, 2013 (SCI-Expanded)
- XXXIII. **Study of Structural and Optical Properties of Zinc Oxide Rods Grown on Glasses by Chemical Spray Pyrolysis**  
Sönmez E., Aydın S., Yılmaz M., Yurtcan M. T., Karacalı T., Ertuğrul M.  
JOURNAL OF NANOMATERIALS, 2012 (SCI-Expanded)
- XXXIV. **Enhancement of Photoluminescence Lifetime of ZnO Nanorods Making Use of Thiourea**  
SÖNMEZ E., Meral K.  
JOURNAL OF NANOMATERIALS, 2012 (SCI-Expanded)
- XXXV. **Optical properties of ZnO nanorods on glass via spray deposition of solution containing zinc chloride and thiourea**

SÖNMEZ E., KARACALI T., EKINCI A. E., ERTUĞRUL M.

IEEE Transactions on Nanotechnology, vol.10, no.3, pp.532-536, 2011 (SCI-Expanded)

XXXVI. **INVESTIGATION OF EFFECTIVENESS OF DEMONSTRATION-SIMULATION BASED INSTRUCTION IN TEACHING ENERGY CONSERVATION AT 7 TH GRADE**

Aggul F., YALÇIN M., AÇIKYILDIZ M., SÖNMEZ E.

JOURNAL OF BALTIC SCIENCE EDUCATION, vol.7, no.2, pp.64-77, 2008 (SSCI)

## Articles Published in Other Journals

- I. **Investigating the Effect of Yttrium Oxide Nanoparticle in U87MG Glioma and PC3 Prostate Cancer: Molecular Approaches**  
Aydın Karataş E., Bayındırlı K. N., Özdemir Tozlu Ö., Sönmez E., Kerli S., Türkez H., Yazıcı A.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.3, pp.2307-2318, 2021 (Peer-Reviewed Journal)
- II. **Expression profiling and pathway analysis of iron oxide nanoparticles toxicity on human lung alveolar epithelial cell line using microarray analysis,**  
TÜRKEZ H., ARSLAN M. E., SÖNMEZ E., TATAR A., GEYİKOĞLU F., AÇIKYILDIZ M.  
Hacettepe Journal of Biology and Chemistry, vol.48, no.4, pp.309-318, 2020 (Peer-Reviewed Journal)
- III. **FİZİK DERSİ OPTİK ÜNİTESİ ÖĞRETİMİNDE JİGSAWTEKNİĞİNİN 10. SINIF ÖĞRENCİLERİNİN AKADEMİK BAŞARISINA ETKİSİ**  
MERAL Y., SÖNMEZ E., DİLBER R.  
The Journal of Akademik Social Science, vol.5, pp.1-13, 2017 (Peer-Reviewed Journal)
- IV. **Choosing the Right Antioxidant Supplement for Protecting Liver from Toxicity of Engineered Nanoparticles A Comprehensive In Vitro Screening**  
TÜRKEZ H., SÖNMEZ E., AYDIN E., HACİMÜFTÜOĞLU A., ÖZTETİK E.  
Applied Mechanics and Materials, vol.835, pp.57-62, 2016 (Peer-Reviewed Journal)
- V. **Boron Compounds Counteracts Oxidative Stress Mediated Genotoxicity Induced by Fe3O4 Nanoparticles In Vitro**  
TÜRKEZ H., SÖNMEZ E., TATAR A.  
Applied Mechanics and Materials, vol.835, pp.84-90, 2016 (Peer-Reviewed Journal)
- VI. **Process and Characterization of Ni Doped ZnO Nanoparticles**  
EFE A., YILMAZ M., BUDAK H. F., AKDAĞ A., BÜYÜKAYDIN M., CAN M., TURGUT G., SÖNMEZ E.  
Process and Characterization of Ni Doped ZnO Nanoparticles, pp.56-63, 2016 (Peer-Reviewed Journal)
- VII. **2006 Öğrenci Seçme Sınavında Çıkmış Olan Fizik Sorularının Kapsam Geçerliliğinin Analizi**  
KARAMAN İ., DİLBER R., SÖNMEZ E.  
Kazım Karabekir Eğitim Fakültesi Dergisi, vol.16, pp.79-110, 2007 (Peer-Reviewed Journal)
- VIII. **STUDENTS PERCEPTIONS REGARDING SOME PHYSICAL CONCEPTS**  
DİLBER R., SÖNMEZ E., KARAMAN İ.  
BALKAN PHYSICS LETTERS, vol.15, pp.44-50, 2007 (Peer-Reviewed Journal)
- IX. **APPLICATION OF A QUESTIONNAIRE TO DESCRIBE PHYSICS STUDENTS ATTITUDES ABOUT LABORATORY ACTIVITIES**  
DİLBER R., SÖNMEZ E., ÖZAY KÖSE E., SEZEK F., DOĞAN S.  
Balkan Physics Letter, vol.15, pp.13-21, 2007 (Peer-Reviewed Journal)
- X. **Öğretim Teknolojileri ve Materyal Geliştirme Dersinin Öğrenci Açısından Öneme Yönelik Bir Çalışma**  
SÖNMEZ E., DİLBER R., KARAMAN İ.  
Kazım Karabekir Eğitim Fakültesi Dergisi, vol.13, pp.112-119, 2006 (Peer-Reviewed Journal)
- XI. **Fizikte Öğrenme Güçlüklerinin Saptanmasına Yönelik Bir Çalışma**  
TURGUT Ü., KARAMAN İ., SÖNMEZ E., DİLBER R., ŞİMŞEK Ö.  
Kazım Karabekir Eğitim Fakültesi Dergisi, vol.13, pp.431-437, 2006 (Peer-Reviewed Journal)
- XII. **Fizik Bölümü Öğrencilerinin Laboratuvarlara Karşı Tutumlarının Değerlendirilmesi ve Karşılaşılan**

### **Sorunların Tespit Edilmesi üzerine Bir araştırma**

DİLBER R., SÖNMEZ E., DOĞAN S., SEZEK F.

Çukurova Üniversitesi Eğitim Fakültesi Dergisi, vol.1, pp.102-110, 2006 (Peer-Reviewed Journal)

### **XIII. Fizik Laboratuvarlarında Kullanılan Deney Malzemeleri Üzerine Bir Çalışma**

SÖNMEZ E., DİLBER R., KARAMAN İ.

KAZIM KARABEKİR EĞİTİM FAKÜLTESİ DERGİSİ, vol.11, pp.590-604, 2005 (Peer-Reviewed Journal)

## **Books & Book Chapters**

### **I. Süperiletkenler**

SÖNMEZ E.

in: Fiziğin Bilim ve Teknolojideki Uygulamaları, Yener D., Editor, Pegem A Yayıncılık, Ankara, pp.229-241, 2019

### **II. Yarıiletkenler**

SÖNMEZ E.

in: Fiziğin Bilim ve Teknolojideki Uygulamaları, Yener D., Editor, Pegem A Yayıncılık, Ankara, pp.242-257, 2019

### **III. Yarıiletkenler**

SÖNMEZ E.

in: Fiziğin Bilim ve Teknolojideki Uygulamaları, Dünder Yener, Editor, Pegem Akademi, Ankara, pp.243-258, 2019

### **IV. Süperiletkenler**

SÖNMEZ E.

in: Fiziğin Bilim ve Teknolojideki Uygulamaları, Dünder Yener, Editor, Pegem Akademi, Ankara, pp.229-242, 2019

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

### **I. Bilim, Astronomi ve Kayak Eğitimi (BAK) Kampı'na Katılan Ortaokul Öğrencilerinin Deneyimlerinin İncelenmesi**

SÖNMEZ E., OKTAY Ö.

1. Uluslararası İnfomal Öğrenme Kongresi (ICIL), Nevşehir, Turkey, 1 - 03 November 2019, pp.177-183

### **II. Molecular Genetic and Biochemical Responses in Primary Human Airway Epithelial, Liver Hepatocytes and Peripheral Blood Cell Cultures Exposed to Zinc Oxide Based Nanoparticles in Vitro**

AYDIN KARATAŞ E., Bayındırlı K., TÜRKEZ H., SÖNMEZ E., ÖZTETİK E., ÖZDEMİR TOZLU Ö.

INTERNATIONAL SYMPOSIUM ON APPLIED SCIENCES AND ENGINEERING, Erzurum, Turkey, 26 - 28 November 2018, pp.230

### **III. Molecular genetic responses in primary human airway epithelial, liver hepatocytes and peripheral blood cell cultures exposed to iron-zinc oxide based nanoparticles in vitro**

AYDIN KARATAŞ E., SÖNMEZ E., ÖZTETİK E., TÜRKEZ H.

6th International Congress on Molecular Biology and Biotechnology, Afyon, Turkey, 22 - 25 December 2017

### **IV. Nickel boride nanoparticle toxicity and microarray analysis on human pulmonary alveolar cells**

TÜRKEZ H., ARSLAN M. E., SÖNMEZ E., TATAR A., GEYİKOĞLU F.

International Multidisciplinary Symposium on Drug Research and Development, Erzurum, Turkey, 5 - 07 October 2017

### **V. Effect of Jigsaw Technique on 10th Grade Students' Academic Success**

DİLBER R., SÖNMEZ E., Meral Y.

II. Uluslararası İğdır Sempozyumu, 9 - 11 October 2017

### **VI. Molecular genetic responses in different human primary cell cultures exposed to aluminum-zinc oxide based nanoparticles in vitro**

Oztetik E., Aydın E., SÖNMEZ E., Aydın N., Turkez H.

European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256

### **VII. Toxicogenomic approaches of cobalt boride nanoparticles on human pulmonary alveolar cells**

TÜRKEZ H., ARSLAN M. E., SÖNMEZ E., TATAR A., GEYİKOĞLU F.

19th International Conference on Healthcare Life-Science Research (ICHLR), 28-29 July 2017, Barcelona, Spain, 28 - 29 July 2017

- VIII. **CuInSe<sub>2</sub> Thin Films As a Counter Electrode of Dye-Sensitized Solar Cell**  
AKDAĞ A., YILMAZ M., SÖNMEZ E., GÜLEN M., SÖNMEZOĞLU S.  
E-MRS 2017 Spring Meeting, Strasbourg, France, 22 - 26 May 2017
- IX. **Properties of CuInSe<sub>2</sub> Thin Film Grown on Graphene by Electrochemical System**  
YILMAZ M., AKDAĞ A., SÖNMEZ E.  
E-MRS 2017, Strasbourg, France, 22 - 26 May 2017
- X. **Periferik insan kan, alveolar epitel ve primer insan karaciğer hepatosit hücrelerinde ZnO katkılı kobalt (Cu-ZnO) nanopartiküllerinin oluşturduğu moleküler yanıtların araştırılması**  
ÖZDEMİR Ö., AYDIN KARATAŞ E., SÖNMEZ E., ÖZTETİK E., TÜRKEZ H.  
5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 30 March - 02 April 2017
- XI. **Bor Karbür Nanopartikülünün Sentezi, Karakterizasyonu ve İnsan Primer Alveolar Epitel Hücre Kültürü Üzerinde ki Toksikogenomik Etkileri**  
TÜRKEZ H., ARSLAN M. E., SÖNMEZ E., AYDIN E.  
5. ilaç kimyası kongresi, Antalya, Turkey, 30 March - 02 April 2017
- XII. **Toxicogenomic Responses of Human Alveolar Epithelial Cells to Tungsten Boride Nanoparticles**  
TÜRKEZ H., ARSLAN M. E., SÖNMEZ E., TATAR A., AÇIKYILDIZ M., GEYİKOĞLU F.  
International Conference on Medicine and Science: Milano 2016, 27 - 28 December 2016
- XIII. **Nanotoxicity evaluation of tellurium dioxide nanoparticles on human airway epithelial and whole blood cells in vitro**  
Nurşah A., SÖNMEZ E., TÜRKEZ H.  
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- XIV. **Synthesis Characterization and Cytotoxicity of Boron Nitride BN Nanoparticles Emphasis on Toxicogenomics**  
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## **Metrics**

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## **Non Academic Experience**

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