

## Asst. Prof. CANBOLAT GÜRSES



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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-6825-2019

ScopusID: 57196176581

Yoksis Researcher ID: 120823

### Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Biology/Molecular Biology, Turkey  
2014 - 2023

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Chemistry/Biochemistry, Turkey  
2014 - 2021

Postgraduate, University of Washington, Mühendislik Fakültesi, Malzeme Bilimi ve  
Mühendisliği, United States Of America 2009 - 2012

Undergraduate, Halic University, Faculty Of Arts And Sciences, Department Of Molecular  
Biology And Genetics, Turkey 2003 - 2007

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, The comparative investigation of cytotoxic and genotoxic properties of synthetic commercial tissue adhesives,  
Inonu University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, 2021

Postgraduate, Multifunctional Core-shell Nanoparticles Towards Targeted Biological Interactions, University of  
Washington, Materials Science And Engineering, 2012

### Research Areas

Life Sciences, Biochemistry, Biochemical Toxicology, Natural Sciences

## Academic Titles / Tasks

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik, 2023 - Continues  
Research Assistant PhD, Inonu University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik, 2021 - 2023  
Research Assistant, Inonu University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik, 2013 - 2021

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

- I. **The Cytotoxicity, DNA Fragmentation, and Decreasing Velocity Induced By Chromium(III) Oxide on Rainbow Trout Spermatozoa**  
Ozgur M. E., Ulu A., GÜRSES C., Ozcan I., Noma S. A. A., KÖYTEPE S., ATEŞ B.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.201, no.2, pp.968-983, 2023 (SCI-Expanded)
- II. **Synthesis and biological evaluation of Au-NHC complexes**  
Ekinci O., Akkoc M., Khan S., YAŞAR S., GÜRSES C., Noma S., Balcioglu S., Sen B., AYĞÜN M., Yilmaz I.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, no.9, 2022 (SCI-Expanded)
- III. **Fabrication, thermal and in vitro behaviors of ciprofloxacin loaded beta-cyclodextrin-PEG based polyurethanes as potential biomaterial for wound dressing applications**  
Kantarcioğlu M., Tunc M. G. K., GÜRSES C., ATEŞ B., KÖYTEPE S.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.59, no.5, pp.329-345, 2022 (SCI-Expanded)
- IV. **Aliphatic Polyurethane Films Based on Hexamethylene Diisocyanate and Saccharides for Biocompatible Transparent Coating on Optic Medical Devices**  
Gurses C., Karaaslan M. G., Kelestemur U., Balcioglu S., Gulgen S., Koytepe S., Ates B.  
STARCH-STARKE, vol.74, no.3-4, 2022 (SCI-Expanded)
- V. **Synthesis, Characterization, DNA Binding and Anticancer Activities of The Imidazolidine-Functionalized (NHC)Ru(II) Complexes**  
Gürses C., Aktaş A., Balcioglu S., Fadhilah A., Gök Y., Ateş B.  
JOURNAL OF MOLECULAR STRUCTURE, vol.131350, no.1247, pp.1-9, 2022 (SCI-Expanded)
- VI. **Photocrosslinkable gelatin/collagen based bioinspired polyurethane-acrylate bone adhesives with biocompatibility and biodegradability**  
Balcioglu S., Gurses C., Ozcan İ., Yildiz A., Koytepe S., Parlakpınar H., Vardi N., Ates B.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.192, pp.1344-1356, 2021 (SCI-Expanded)
- VII. **Theoretical and experimental characterization of Pr/Ce co-doped hydroxyapatites**  
Ibrahimzade L., KAYĞILI Ö., DÜNDAR S., Ates T., Dorozhkin S. V., BULUT N., KÖYTEPE S., Ercan F., GÜRSES C., Hssain A. H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1240, 2021 (SCI-Expanded)
- VIII. **Chemistry, Structures, and Advanced Applications of Nanocomposites from Biorenewable Resources**  
Ates B., Koytepe S., Ulu A., Gurses C., Thakur V.  
CHEMICAL REVIEWS, vol.120, no.17, pp.9304-9362, 2020 (SCI-Expanded)
- IX. **Water Soluble Coumarin Quaternary Ammonium Chlorides: Synthesis and Biological Evaluation**  
Karataş M. O., Noma S., Gürses C., Balcioglu S., Ateş B., Alıcı B., Çakır Ü.  
CHEMISTRY & BIODIVERSITY, vol.17, no.9, 2020 (SCI-Expanded)
- X. **Effects of strontium - erbium co-doping on the structural properties of hydroxyapatite: An Experimental and theoretical study**  
Mahmood B. K., KAYĞILI Ö., Bulut N., Dorozhkin S., Ates T., KÖYTEPE S., GÜRSES C., Ercan F., Kebiroglu H., Agid R. S., et al.  
CERAMICS INTERNATIONAL, vol.46, no.10, pp.16354-16363, 2020 (SCI-Expanded)
- XI. **4-Vinylbenzyl and 2-morpholinoethyl substituted ruthenium (II) complexes: Design, synthesis, and biological evaluation**  
SARı Y., GÜRSES C., Celepci D. B., Kelestemur U., AKTAŞ A., YÜKSEL Ş., ATEŞ B., GÖK Y.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1202, 2020 (SCI-Expanded)

- XII. **Chemistry, structure, and biological roles of Au-NHC complexes as TrxR inhibitors**  
KARAASLAN M. G., AKTAŞ A., GÜRSES C., GÖK Y., ATEŞ B.  
BIOORGANIC CHEMISTRY, vol.95, 2020 (SCI-Expanded)
- XIII. **New morpholine-liganded palladium(II) N-heterocyclic carbene complexes: Synthesis, characterization, crystal structure, and DNA-binding studies**  
TÜRKER F., GÜRSES C., Celepci D. B., AKTAŞ A., ATEŞ B., GÖK Y.  
ARCHIV DER PHARMAZIE, vol.352, no.12, 2019 (SCI-Expanded)
- XIV. **Palladium(II) and ruthenium(II) complexes of benzotriazole functionalized N-heterocyclic carbenes: Cytotoxicity, antimicrobial, and DNA interaction studies**  
ONAR G., GÜRSES C., KARATAŞ M. O., BALCIOGLU S., AKBAY N., Ozdemir N., ATEŞ B., ALICI B.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.886, pp.48-56, 2019 (SCI-Expanded)
- XV. **Chitosan/Polyvinylpyrrolidone/MCM-41 Composite Hydrogel Films: Structural, Thermal, Surface, and Antibacterial Properties**  
ULU A., NOMA S. A. A., GÜRSES C., KÖYTEPE S., ATEŞ B.  
STARCH-STARKE, vol.70, 2018 (SCI-Expanded)
- XVI. **Benzotriazole functionalized N-heterocyclic carbene-silver(I) complexes: Synthesis, cytotoxicity, antimicrobial, DNA binding, and molecular docking studies**  
ONAR G., KARATAŞ M. O., BALCIOGLU S., Tok T. T., GÜRSES C., Kilic-Cikla I., Ozdemir N., ATEŞ B., ALICI B.  
POLYHEDRON, vol.153, pp.31-40, 2018 (SCI-Expanded)
- XVII. **Protonated water-soluble N-heterocyclic carbene ruthenium(II) complexes: Synthesis, cytotoxic and DNA binding properties and molecular docking study**  
AKKOC M., BALCIOGLU S., GÜRSES C., Tok T. T., ATEŞ B., YAŞAR S.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.869, pp.67-74, 2018 (SCI-Expanded)
- XVIII. **Biomedical applications of hybrid polymer composite materials**  
ATEŞ B., KÖYTEPE S., Balcioglu S., Ulu A., GÜRSES C.  
HYBRID POLYMER COMPOSITE MATERIALS: APPLICATIONS, pp.343-408, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **THE PREPARATION OF VARIOUS TEAR-CONTAINING CREAMS AND INVESTIGATION OF THEIR ANTIBACTERIAL PROPERTIES**  
GÜRSES C., UYAN M., KURUÇAY A., PAŞAHAN A.  
İnönü Üniversitesi Sağlık Hizmetleri Meslek Yüksek Okulu Dergisi, vol.9, no.3, pp.873-885, 2021 (Peer-Reviewed Journal)
- II. **Yenilenebilir Kaynaklı Poliüretan Kompozitler**  
ULU A., GÜRSES C., ATEŞ B., BALCIOGLU S., KÖYTEPE S.  
Putech (Poliüretan Sanayi Dergisi), vol.7, no.26, pp.14-26, 2015 (Non Peer-Reviewed Journal)
- III. **Poliüretan Temelli Biyoyapıştırıcılar**  
ATEŞ B., KÖYTEPE S., Karaaslan M. G., GÜRSES C., Gülgen S.  
Putech & Composites Magazine, no.23, pp.22-34, 2015 (Non Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Bölüm 9 Kemotrofik Enerji Metabolizması: Glikoliz ve Fermentasyon**  
GÜRSES C., GEÇKİL H.  
in: Becker'in Hücre Dünyası, 9.Baskıdan Çeviri, Ali Osman Beldüz, Editor, Palme Yayın Dağıtım, Ankara, pp.215-241, 2019
- II. **Biomedical applications of hybrid polymer composite materials**  
ATEŞ B., KÖYTEPE S., Balcioglu S., Ulu A., GÜRSES C.

in: Hybrid Polymer Composite Materials Applications, Vijay Kumar Thakur, Editor, Elsevier Science, Oxford/Amsterdam , Cambridge, pp.343-408, 2017

III. **Synthesis and properties of soy-Based Biopolymeric Composites**

KÖYTEPE S., ATEŞ B., GÜRSES C.

in: Soy-based Bioplastics, Vijay Kumar Thakur, Editor, Smithers Rapra, Shawbury, pp.201-226, 2017

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

- I. **The Comparative Investigation of Cytotoxic Properties for Synthetic Commercial Tissue Adhesives**  
GÜRSES C., ATEŞ B.  
2nd ICABC (International Congress on Analytical and Bioanalytical Chemistry), 11 - 14 March 2020
- II. **The Preparation of Antibacterial Wound Dressing Materials Containing Allantoin via Electrospinning Method**  
Çakmen A. B., NOMA S. A. A., GÜRSES C., KÖYTEPE S., ATEŞ B., YILMAZ İ.  
2. EBAT (Eurasia Biochemical Approaches & Technologies) Kongresi, Antalya, Turkey, 26 - 29 October 2019, pp.170
- III. **Preparation of Allantoin-Based Wound Dressing Materials to Enhance Wound Healing**  
Çakmen A. B., NOMA S. A. A., GÜRSES C., KÖYTEPE S., ATEŞ B., YILMAZ İ.  
5 th International Eurasian Congress on 'Natural Nutrition, Healthy Life & Sport', Ankara, Turkey, 2 - 06 October 2019, pp.1734-1735
- IV. **Preparation of Sericin Based UV-Curing Multifunctional Polyurethane Tissue Adhesives**  
BALCIOĞLU S., ULU A., Noma S. A. A., GÜRSES C., Karaaslan M. G., KÖYTEPE S., ATEŞ B.  
SANKO University Innovation in Medicine Summit-4, 11 - 13 October 2018
- V. **The investigation of adrenomedullin effects of over hypoxia inducible factor 1-alpha under hypoxic conditions in rats**  
Culum A. A., GÜRSES C., YÜREKLİ M.  
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- VI. **Yara Örtüsü Uygulamaları İçin Siproflaksasin/ $\beta$ -Siklodekstrin Temelli Poliüretan Malzemelerin Antibakteriyel ve Biyouyumluluk Özelliklerinin Araştırılması**  
Kantarcioglu M., Karaaslan M. G., GÜRSES C., ATEŞ B., KÖYTEPE S.  
6. İlaç Kimyası Kongresi, Antalya, Turkey, 22 - 25 March 2018, pp.175
- VII. **Adrenomedullin affects hypoxia inducible factor 1 alpha in rats under hypoxic conditions**  
Culum A. A., Gurses C., Yurekli M.  
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.220
- VIII. **The Comparison of Isothermal and Hydrolytic Degradability Properties of Non-aromatic Polyurethanes Prepared for Medical Applications**  
GÜRSES C., Daştan H., Karaaslan M. G., Gülgen S., KÖYTEPE S., ATEŞ B.  
MACRO 2016 (Dünya Polimer Kongresi), İstanbul, Turkey, 17 - 21 July 2016, pp.216
- IX. **Aliphatic Polyurethanes Based on Hexamethylene Diisocyanate and Saccharides (Xylose, Sucrose and Starch) for Biocompatible Transparent Surface in Medical Devices**  
GÜRSES C., ATEŞ B., KÖYTEPE S., Karaaslan M. G., Keleştemur Ü., Balcıoğlu S., Gülgen S.  
European Polymer Federation (EPF), Dresden, Germany, 21 - 26 June 2015, pp.1

## **Supported Projects**

AKTAŞ A., YAVUZ K., YILMAZ Ü., PAŞAHAN A., GÖK Y., GÜZEL A., KOLAÇ T., GÜRSES C., KAZANCI A., DEMİRCİ Ö., et al., Project Supported by Higher Education Institutions, TiyoI Grubu İçeren BenzimidazolFonksiyonlu N-heterosiklik Karben (NHC) Öncülleri ile Gümüş ve Rutenyum Metal Komplekslerinin Sentezi Karakterizasyonu ve Biyolojik Aktivitelerinin

İncelenmesi, 2020 - Continues

Aktaş A., Gök Y., Gürses C., Kazancı A., Demirci Ö., Kuruçay A., Project Supported by Higher Education Institutions, Hidrofilik Grup İçeren N-Heterosiklik Karben Öncülleri ve Komplekslerinin Sentezi Karakterizasyonu Enzim İnhibisyon ve Antikanser Özelliklerinin Hücre Geçirgenliği ile DNA Bağlanma Özelliklerine Göre Araştırılması, 2021 - 2023

YÜREKLİ M., GÜRSES C., Project Supported by Higher Education Institutions, Bazı Kayısı Çeşitlerinin Farklı Kansere Hücrelerinde Endoplazmik Retikulum Stresi Üzerindeki Etkinliğinin Araştırılması, 2019 - 2023

ATEŞ B., GÜRSES C., Project Supported by Higher Education Institutions, Sentetik Ticari Doku Yapıştırıcılarının Sitotoksik ve Genotoksik Özelliklerinin Karşılaştırılmalı Araştırılması, 2018 - 2021

Gürses C., Budak D. C., Cevrioğlu M., TÜBİTAK Project, Farklı Nanopartiküllerin DNA Üzerindeki Sitotoksik ve Genotoksik Özelliklerinin İncelenmesi, 2019 - 2020

ATEŞ B., BALCIOĞLU S., ARANIY FADHILAH A. F., AKTAŞ A., GÖK Y., GÜRSES C., Project Supported by Higher Education Institutions, Floresans Spektrofotometresi Kullanarak Yeni Sentezlenen Organometalik Bileşiklerinin Ayrıntılı DNA Etkileşim Modellerinin Araştırılması, 2018 - 2020

GÖK Y., ATEŞ B., GÜRSES C., NOMA S. A. A., BALCIOĞLU S., BEREKET İ., TÜRKER F., AKTAŞ A., TOK T. T., Project Supported by Higher Education Institutions, İlaç Etken Maddesi Olarak N-Heterosiklik Karben (NHC-M, M:Ag, Ru, Pd) Komplekslerinin Sentezi: Antikanser, Enzim İnhibisyonu, DNA Bağlanma Özellikleri ve Moleküler Modelleme, 2018 - 2020

## Metrics

Publication: 33

Citation (WoS): 509

Citation (Scopus): 575

H-Index (WoS): 9

H-Index (Scopus): 10