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International Researcher IDs

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Education

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 effectiveness investigation of some apricot cultivars on endoplasmic reticulum stress in different cancer cells, Inonu University, Fen Bilimleri Enstitüsü, 2023

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

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

Research Areas

Academic Positions

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

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Sericin and gentamicin-enhanced polyurethane-acrylate adhesives for superior adhesion, biocompatibility and antibacterial property**
Balcioglu S., Karaaslan M. G., Ulu A., Özcan İ., Noma S. A. A., Gürses C., Ateş B., Köytepe S.
INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, vol.139, pp.1-13, 2025 (SCI-Expanded)
- II. **The preparation of trimethylolpropane ethoxylate-170-based antibacterial wound dressing materials containing allantoin via electrospinning method**
Çakmen A. B., Noma S. A. A., Gürses C., Köytepe S., Ateş B., Yılmaz İ.
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- III. **Near-infrared inducible supports in bio-catalysts design: A useful and versatile tool in enhancement of enzyme activity**
Noma S. A. A., Dik G., Gürses C., Kuruçay A., Topel S. D., Ulu A., Asiltürk Ersoy M., Ateş B.
MOLECULAR CATALYSIS, vol.560, pp.1-17, 2024 (SCI-Expanded)
- IV. **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)
- V. **Synthesis and biological evaluation of Au-NHC complexes**
Ekinci O., Akkoc M., Khan S., YAŞAR S., GÜRSES C., Noma S., Balcioglu S., Sen B., AYGÜN M., Yılmaz I.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, no.9, 2022 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)

- XI. **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)
- XII. **Water Soluble Coumarin Quaternary Ammonium Chlorides: Synthesis and Biological Evaluation**
Karataş M. O., Noma S., Gürses C., Balcıoğlu S., Ateş B., Alıcı B., Çakır Ü.
CHEMISTRY & BIODIVERSITY, vol.17, no.9, 2020 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)

Articles Published in Other Journals

- I. **Fabrication and characterization of high molecular mass tmpe-based polyurethane wound dressing materials containing allantoin and gentamicin by electrospinning**
Çakmen A. B., Noma S. A. A., Gürses C., Köytepe S., Ateş B., Yılmaz İ.
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- II. **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)

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

I. Toxicity and degradation of polymeric implants

Gürses C., Gündüz N., Kuruçay A., Ateş B.

in: Polymeric Materials for Biomedical Implants: Characterization, Properties, and Applications, Sabu Thomas, Abhimanyu Tharayil, Editor, Woodhead Publishing Limited, Amsterdam, pp.585-612, 2024

II. 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

III. 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

IV. 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

Papers Presented at Peer-Reviewed Scientific Conferences

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, (Summary Text)

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, (Full Text)

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, (Full Text)

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, (Summary Text)

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, (Full Text)

VI. Yara Örtüsü Uygulamaları İçin Siproflaksasin ve β -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, (Summary Text)

- 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, (Summary Text)
- 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, (Full Text)
- IX. **Aliphatic Polyurethanes Based on Hexamethylene Diisocyanate and Saccharides for Biocompatible Transparent Surface in Medical Devices**
GÜRSES C., ATEŞ B., KÖYTEPE S., KARAASLAN M., KELEŞTEMUR Ü., BALCIOĞLU S., GÜLGEN S.
European Polymer Congress, 21 - 26 June 2015, (Summary Text)

Funded Projects

- Gök Y., Aktaş A., Gürses C., Project Supported by Higher Education Institutions, Florlu Grubu İçeren NHC Öncülleri ve Kalkojen Türevlerinin Sentezi Karakterizasyonu ve Bazı Metabolik Enzimlere Karşı İnhibitör Aktiviteleri, 2024 - 2026
- GÜZEL A., YİĞİN A., HÜZ M., PAŞAHAN A., KOLAÇ T., GÜRSES C., ŞENTÜRK H., PAŞAHAN R., SİNANOĞLU M. S., Project Supported by Higher Education Institutions, Ajuga chamaepitys subsp laevigata (Banks-Sol) Bitkisinin Yara ve Yanık Tedavisindeki Etkinliğinin Değerlendirilmesi İçin Biyoaktivitelerinin İncelenmesi, 2021 - 2024
- AKTAŞ A., YAVUZ K., İÇEN TAŞKIN I., SEVER M. R., YILMAZ Ü., PAŞAHAN A., GÖK Y., GÜZEL A., KOLAÇ T., GÜRSES C., et al., Project Supported by Higher Education Institutions, Tiyol Grubu İçeren BenzimidazolFonksiyonlu N-heterosiklik Karben (NHC) Öncülleri ile Gümüş ve Rutenyum Metal Komplekslerinin Sentezi Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2020 - 2024
- 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 Kanser 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., TUBITAK 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

Patent

- Parlakpınar H., Köytepe S., Gürses C., Karaca Açarı İ., Ateş B., Plevral Efüzyon Veya Pnömotoraksı Önlemek İçin Antibakteriyel Ve Antiinflamatuvar Etkiye Sahip Modifiye Plevra Talk Yapılarının Geliştirilmesi. , Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2022 021894 B , Standard Registration, 2024

Metrics

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