

Assoc. Prof. SERKAN ÖZTÜRK

Personal Information

Office Phone: [+90 224 275 5093](tel:+902242755093)

Email: serkanozturk@uludag.edu.tr

Web: <https://avesis.uludag.edu.tr/serkanozturk>

Address: Bursa Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü 16059, Görükle Kampüsü, Nilüfer / BURSA

International Researcher IDs

ScholarID: vYExiU4AAAAJ

ORCID: 0000-0002-9396-1403

Publons / Web Of Science ResearcherID: AAH-1812-2021

ScopusID: 36452415600

Yoksis Researcher ID: 156620

Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr) Tezli, Turkey 2007 - 2013

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Yl) (Tezli), Turkey 2003 - 2007

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

German, C1 Advanced

Dissertations

Doctorate, Potansiyel korozyon inhibitör özelliği taşıyan bazı amid bileşiklerinin tasarımı ve sentezi, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr) Tezli, 2013

Postgraduate, Bursa yöresinde yetişen bazı kestane türlerinin belirli kimyasal içeriklerinin karakterizasyonu, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YL) Tezli, 2007

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2019 - Continues

Research Assistant PhD, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2013 - 2019

Research Assistant, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), 2006 - 2013

Courses

KIM5182 / Yüksek Lisans Uzmanlık Alan Dersi II, Postgraduate, 2021 - 2022
KIM4004-R / Bitirme Çalışması II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
KIM4062 / Korozyon Kimyası ve Organik Korozyon İnhibitörleri, Undergraduate, 2021 - 2022, 2020 - 2021
KIM2014-B / Organik Kimya Laboratuvarı II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
KIM5038 / Özel İsimleri ile Bilinen Organik Reaksiyonlar, Postgraduate, 2021 - 2022
KIM5192 / Tez Danışmanlığı II, Postgraduate, 2021 - 2022
KIM1077MAK-A / Genel Kimya, Undergraduate, 2021 - 2022
KIM1005-C / Genel Kimya Laboratuvarı I, Undergraduate, 2021 - 2022
KIM1077MAK-B / Genel Kimya, Undergraduate, 2020 - 2021, 2019 - 2020
KIM1085BTK / Kimya, Undergraduate, 2021 - 2022, 2020 - 2021
KIM5191 / Tez Danışmanlığı I, Postgraduate, 2021 - 2022
KIM2013-B / Organik Kimya Laboratuvarı I, Undergraduate, 2021 - 2022, 2020 - 2021
KIM1085BAH / Kimya, Undergraduate, 2021 - 2022, 2020 - 2021
KIM1077-b / Genel Kimya, Undergraduate, 2020 - 2021, 2019 - 2020
KIM4003-R / Bitirme Çalışması I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
KIM5181 / Yüksek Lisans Uzmanlık Alan Dersi I, Postgraduate, 2021 - 2022
KIM1077BİLG / Genel Kimya, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
KMY1095 / Medikal Kimya, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
KIM2463-B / Organik Kimya Laboratuvarı, Undergraduate, 2020 - 2021, 2019 - 2020
KIM1065-C Genel Kimya Laboratuvarı I, Undergraduate, 2020 - 2021, 2019 - 2020
KIM1080BTP - ORGANİK KİMYA (Yaz Okulu), Undergraduate, 2017 - 2018
KIM 2436 Organik Kimya (Yaz Okulu), Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis of Dicationic Surfactants Containing a Long Chain in One of the Two Pyridinium Nitrogen in the Structure and Investigation of their Anticorrosion Properties**
ÖZTÜRK S., Akgül G., Seker F., TEKİN M., Beyaz E., Atar A., Gurer A., Aldis G. B., Tepeli A.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.60, no.2, pp.343-353, 2024 (SCI-Expanded)
- II. **Synthesis, characterization, and studies of the interfacial and anticorrosion properties of a ternary cationic ionic liquid on carbon steel in a molar concentration of hydrochloric acid: Experimental and computational insights**
Öztürk S., Gerengi H., Solomon M. M., Gece G., Yıldırım A., Olasunkanmi L. O.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.681, 2024 (SCI-Expanded)
- III. **Synthesis of Di- and Tricationic Surfactants and Comparison of Their Activity on Oxidation of Metal in HCl Media**
ÖZTÜRK S., GÜLTEKİN Z., Gültekin N., Akgül G., ALPER M.
Protection of Metals and Physical Chemistry of Surfaces, vol.59, no.5, pp.998-1009, 2023 (SCI-Expanded)
- IV. **Newly Synthesized Pyridinium Salt Based Tricationic Surfactants as Corrosion Inhibitor for Carbon Steel in 1.0 M HCl Medium**
Öztürk S., Gece G., Yıldırım A., Gerengi H.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.59, no.4, pp.750-762, 2023 (SCI-Expanded)
- V. **Synthesis of tri-cationic surfactants containing two amide functional groups and inhibition effectiveness against metal corrosion in acidic medium**
Ozturk S., Altinolcek N.
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.25, no.6, pp.821-832, 2022 (SCI-Expanded)
- VI. **Non-Gemini Dicationic Surfactants with Alkylthio Group as Corrosion Inhibitor for Mild Steel in HCl Solution**

- Öztürk S.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.58, no.4, pp.845-855, 2022 (SCI-Expanded)
- VII. **An Efficient Ni(II) Laurate Promoted Heterocyclization of Symmetrical Thioureas with Maleic Anhydride and Mechanistic Approach toward Higher Substituted Thiazolidine-4-one-5-acetic Acids**
YILDIRIM A., ÖZTÜRK S.
CHEMISTRYSELECT, vol.7, no.26, 2022 (SCI-Expanded)
- VIII. **A newly synthesized ionic liquid as an effective corrosion inhibitor for carbon steel in HCl medium: A combined experimental and computational studies**
Öztürk S., Gerengi H., Solomon M. M., Gece G., Yildırım A., Yildiz M.
MATERIALS TODAY COMMUNICATIONS, vol.29, 2021 (SCI-Expanded)
- IX. **Synthesis, anticorrosion, antibacterial, and antifungal activity of new amphiphilic compounds possessing quinazolin-4(3H)-one scaffold**
Ozturk S., Okay S., Yildirim A.
RUSSIAN CHEMICAL BULLETIN, vol.69, no.11, pp.2205-2214, 2020 (SCI-Expanded)
- X. **A convenient approach directly from triglycerides toward the producing of thia-wax esters as bio- and chemical raw materials**
Yildirim A., Kiraylar K., Ozturk S.
RESEARCH ON CHEMICAL INTERMEDIATES, no.1, pp.215-230, 2020 (SCI-Expanded)
- XI. **Flexible Semicrown Ether-Linked Symmetric Cationic Gemini Surfactants: Synthesis and Evaluation as Catalysts for Acceleration of Diastereoselective [3+2] Cycloaddition Reaction in Reversed Phase Micellar Media**
ÖZTÜRK S., YILDIRIM A., Gece G., Turkdemir H.
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.22, no.2, pp.197-208, 2019 (SCI-Expanded)
- XII. **Improved Sustainable Ionic Liquid Catalyzed Production of Symmetrical and Non-Symmetrical Biological Wax Monoesters**
YILDIRIM A., Mudaber S., ÖZTÜRK S.
EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY, vol.121, no.2, 2019 (SCI-Expanded)
- XIII. **Synthesis of Quinazoline Derivative Di-Cationic Surfactants and Their Corrosion Protection of Mild Steel in Acidic Media**
Ozturk S.
RUSSIAN JOURNAL OF ORGANIC CHEMISTRY, vol.55, no.2, pp.245-249, 2019 (SCI-Expanded)
- XIV. **Evaluation of the corrosion inhibiting efficacy of a newly synthesized nitron against St37 steel corrosion in acidic medium: Experimental and theoretical approaches**
Gerengi H., Solomon M. M., Öztürk S., Yildırım A., Gece G., Kaya E.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.93, pp.539-553, 2018 (SCI-Expanded)
- XV. **Synthesis and Corrosion Inhibition Behavior of Novel Amide-Based Quarternary Di-Cationic Surfactants on Carbon Steel in HCl Solutions**
ÖZTÜRK S.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.54, no.5, pp.953-962, 2018 (SCI-Expanded)
- XVI. **Synthesis and corrosion inhibition effects of quinazolin-(3H)-4-one derivatives containing long-chain pyridinium salts on carbon steel in 1.5 M HCl**
ÖZTÜRK S.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.53, no.5, pp.920-927, 2017 (SCI-Expanded)
- XVII. **SYNTHESIS AND SURFACE CHARACTERIZATION STUDIES OF POLYETHER-LINKED SYMMETRIC HIGHER SULFANYL-1,3,4-OXADIAZOLES**
Yildirim A., ÖZTÜRK S.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.190, no.9, pp.1535-1550, 2015 (SCI-

- Expanded)
- XVIII. **Synthesis of Quaternary, Long-Chain N-Alkyl Amides and Their Corrosion Inhibition in Acidic Media**
ÖZTÜRK S., YILDIRIM A., Cetin M., TAVASLI M.
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.17, no.3, pp.471-481, 2014 (SCI-Expanded)
- XIX. **Long-Chain Alkylthia-Benzimidazoles as Corrosion Inhibitors for Carbon Steel in H₂SO₄ Solution**
Yildirim A., ÖZTÜRK S., Cetin M.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.188, no.7, pp.855-863, 2013 (SCI-Expanded)
- XX. **Some higher N-substituted 1,3-thiazolidine-2,4-diones and 5,5-diphenylhydantoin, their synthesis and corrosion preventive properties in mineral oil medium**
ÖZTÜRK S., YILDIRIM A., Cetin M.
APPLIED SURFACE SCIENCE, vol.265, pp.895-903, 2013 (SCI-Expanded)
- XXI. **Novel Amide-Based Cationic Surfactants as Efficient Corrosion Inhibitors for Carbon Steel in HCl and H₂SO₄ media**
Yildirim A., ÖZTÜRK S., Cetin M.
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.16, no.1, pp.13-23, 2013 (SCI-Expanded)
- XXII. **Chemical Composition and Fatty Acid Contents of Chestnuts Grown in Bursa Province, Turkey**
ÖZTÜRK S., ÇETİN M., Cetin M.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.3, pp.1845-1852, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **İki Pozitif Azot Atomu İçeren Di-katyonik Yüzey Aktif Maddelerin Sentezi ve 1.0 M HCl Ortamında Korozyon İnhibisyon Etkinliklerinin İncelenmesi**
Öztürk S., Telci E., Bektaş G., Kaya B., Taner E., Kıvrak K.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, no.2, pp.812-828, 2023 (Peer-Reviewed Journal)
- II. **Asidik Ortamda Korozyon İnhibitörü Görevi Üstlenen Üç Pozitif Azot Atomu İçeren Tri-Katyonik Yüzey Aktif Maddelerin Sentezi**
ÖZTÜRK S., ÖZKAZANLI M. M., AKYILDIZ İ., KARA T., ÇELİK F.
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.21, pp.669-679, 2021 (Peer-Reviewed Journal)
- III. **An improved isolation of trimyristin from Myristica fragrans as a renewable feedstock with assistance of novel cationic gemini surfactant**
YILDIRIM A., ÖZTÜRK S., TÜRKDEMİR M. H., Kolalı A., Atalay B. G., Kocataş H.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.7, no.2, pp.545-560, 2020 (Scopus)
- IV. **Düşük karbon çeliğinin asidik ortamdaki korozyonuna karşı inhibitör özelliği gösteren 4-okso-kinazolin türevi katyonik yüzey aktif maddelerin sentezi**
ÖZTÜRK S.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.22, no.3, pp.986-1000, 2018 (Peer-Reviewed Journal)
- V. **Synthesis of 2,3-Dihydroxypropyl-Sulfanyl Derivative Nonionic Surfactants and Their Inhibition Activities Against Carbon Steel Corrosion in Acidic Media**
ÖZTÜRK S., Mudaber S., YILDIRIM A.
Journal of Turkish Chemical Society Section A : Chemistry, vol.5, no.2, pp.333-346, 2018 (Scopus)
- VI. **Synthesis of Aromatic Structured Di-cationic Surfactants Used as Inhibitors Against Corrosion of Carbon Steel in Acidic Medium**
ÖZTÜRK S., YILDIRIM A.
Journal of Turkish Chemical Society Section A : Chemistry, vol.5, no.2, pp.819-828, 2018 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **ANTI-CORROSION PROPERTIES OF TRI-CATIONIC SURFACTANTS CONTAINING POSITIVELY CHARGED NITROGEN WITH A LONG CARBON CHAIN AND A QUATERNARY AMMONIUM GROUP BOUND TO PYRIDINIUM NITROGEN IN ITS STRUCTURE**
Öztürk S., Akgül G., Gür M., Şeker F.
6th. International African Conference on Current Studies of Science, Technology & Social Sciences, Tarabulus, Libya, 10 - 11 February 2023, pp.226-238
- II. **Uzun Zincirindeki Karbon Sayısı Farklı Üç Pozitif Azot Atomu İçeren İki Adet Tri-kasyonik Yüzey Aktif Maddenin Sentezi ve 1.0 M HCl Ortamında Anti-Korozyon Özelliklerinin İncelenmesi**
ÖZTÜRK S., ŞEKER F., BEYAZ E.
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Turkey, 14 December 2022, pp.408-416
- III. **SYNTHESIS OF NEW TRI-CATIONIC SURFACTANTS AND ACTING AS CORROSION INHIBITOR IN ACIDIC ENVIRONMENT**
ÖZTÜRK S., YILDIRIM A., GECE E. G., GERENGİ H.
3. INTERNATIONAL SCIENCES AND INNOVATION CONGRESS, Ankara, Turkey, 21 - 22 November 2021
- IV. **Yeni Tri-Kasyonik Yüzey aktif Maddelerin Sentezi ve Asidik Ortamda Korozyon İnhibitörü Görevi üstlenmeleri**
ÖZTÜRK S., YILDIRIM A., GECE E. G., GERENGİ H.
3. INTERNATIONAL SCIENCES AND INNOVATION CONGRESS, Ankara, Turkey, 21 November 2021, pp.124-137
- V. **Corrosion-inhibiting effect of N,N'-xx-hexanediybis{2-[(2,3-dihydroxypropyl)sulfanyl]acetamide} on the corrosion of St37 steel alloy in 1M HCl**
YILDIZ M., KAYA E., GERENGİ H., ÖZTÜRK S., YILDIRIM A.
The 5th International Colloquium "Corrosion Materials' Protection", Monastir, Tunisia, 28 November - 01 December 2018
- VI. **St37 ÇELİĞİNİN 1 M HCl ORTAMINDAKİ KOROZYON MEKANİZMASINA İYONİK OLMAYAN YÜZEY AKTİF MADDENİN ETKİSİNİN ARAŞTIRILMASI**
YILDIZ M., YILDIRIM A., ÖZTÜRK S., LAHBİB L., BEREKET G., GERENGİ H.
XV. International Corrosion Symposium, Hatay, Turkey, 26 - 28 September 2018
- VII. **Semi-crown ether linked symmetric cationic gemini surfactants, synthesis and their corrosion inhibition effects on carbon steel in 1 M HCl solution**
ÖZTÜRK S., YILDIRIM A.
XV. International Corrosion Symposium, Hatay, Turkey, 26 - 28 September 2018
- VIII. **Synthesis of Aromatic Structured Di-Cationic Surfactants Used As Corrosion Inhibitor Against Metal Corrosion in HCl Solution**
ÖZTÜRK S.
4th International Turk-Pak Conference on Chemical Sciences, Konya, Turkey, 26 - 28 October 2017
- IX. **ORGANİK SENTEZLERDE KULLANILAN BAZI SPEKTROSKOPİK TEKNİKLER: KİNAZOLİN-(3H)-4-ON TÜREVİ UZUN ZİNCİRLİ KATYONİK PİRİDİNYUM TUZLARI**
ÖZTÜRK S.
15. Ulusal Spektroskopi Kongresi, Yalova, Turkey, 17 - 19 May 2017
- X. **2,3-Dihidroksipropil-Sülfanil Türevi Noniyonik Yüzey Aktif Maddelerin Sentezi ve Asidik Ortamdaki Metal Korozyonuna Karşı İnhibisyon Etkinlikleri**
ÖZTÜRK S., YILDIRIM A.
6. Fiziksel Kimya Kongresi, Zonguldak, Turkey, 15 - 18 May 2017
- XI. **Kinazolin Türevi Di-kasyonik Yüzey Aktif Maddelerin Sentezi ve Asidik Ortamdaki Metal Korozyonuna Karşı İnhibisyon Etkinlikleri**
ÖZTÜRK S.
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016
- XII. **AMİT FONKSİYONEL GRUBU İÇEREN KİNAZOLİN-(3H)-4-ON TÜREVİ UZUN ZİNCİRLİ KATYONİK PİRİDİNYUM BROMÜR TUZLARININ SENTEZİ VE HCl ORTAMINDAKİ METAL KOROZYONUNU ÖNLEME ETKİNLİĞİNİN BAZI YÜZEYGÖRÜNTÜLEME TEKNİKLERİYLE DESTEKLENEREK BELİRLENMESİ**

ÖZTÜRK S.

2. ULUSAL ORGANİK KİMYA KONGRESİ, Ankara, Turkey, 24 - 26 September 2014

XIII. **AMİT TÜREVİ ORGANİK BİLEŞİKLERİN ASİDİK ORTAMDA MEYDANA GELEN METAL KOROZYONUNU ÖNLEMEDEKİ YERİ**

ÖZTÜRK S.

2. ULUSALORGANİK KİMYA KONGRESİ, Ankara, Turkey, 24 - 26 September 2014

XIV. **Synthesis of anticorrosive surface active agents for acidic media part I: Alkylamino-N,N,N-triethyloxoalkan-1-aminium bromides**

ÖZTÜRK S., YILDIRIM A., ÇETİN M.

3rd Pak-Turk Conference on Chemical Sciences, Bursa, Turkey, 13 - 15 September 2012

XV. **Synthesis of anticorrosive surface active agents for acidic media part II: 1- Substituted alkylamino oxoalkyl pyridinium bromides**

ÖZTÜRK S., YILDIRIM A., ÇETİN M.

3rd Pak-Turk Conference on Chemical Sciences, Bursa, Turkey, 13 - 15 September 2012

XVI. **Amit Fonksiyonel Grubu İçeren Katyonik Yüzey Aktif Maddelerin Sentezi ve Korozyon İnhibitörlük Özellikleri**

ÖZTÜRK S., YILDIRIM A., ÇETİN M.

III. Fiziksel Kimya Günleri, Balıkesir, Turkey, 12 - 15 July 2012

XVII. **Uzun Alkil Zinciri İçeren Beş Üyeli Heterosiklik Bileşiklerin Sentezi ve Mineral Yağ Ortamındaki Korozyon İnhibitörlük Özellikleri**

ÖZTÜRK S., YILDIRIM A., ÇETİN M.

III. Fiziksel Kimya Günleri, Balıkesir, Turkey, 12 - 15 July 2012

XVIII. **Yalova Atatürk Bahçe Kültürleri Merkez Araştırma Enstitüsünde Yetiştirilen Bazı Kestane Irklarında Kapiler Gaz Kromatografisi ile Yağ Asidi Tayini**

ÖZTÜRK S., ÇETİN M.

24. ULUSAL KİMYA KONGRESİ, Zonguldak, Turkey, 29 June - 02 July 2010

XIX. **Yalova Atatürk Bahçe Kültürleri Merkez Araştırma Enstitüsünde Yetiştirilen Bazı Kestane Irklarında Kjeldahl Yöntemiyle Protein Miktarının Belirlenmesi**

ÖZTÜRK S., ÇETİN M.

III. Ulusal Analitik Kimya Kongresi, Çanakkale, Turkey, 5 - 07 July 2006

Supported Projects

ÖZTÜRK S., Project Supported by Higher Education Institutions, Yapısında üç adet pozitif yüklü azot atomu içeren yüzey aktif maddelerin sentezi ve metal korozyonunu önleme etki mekanizmalarının deneysel ve teorik açıdan incelenmesi, 2020 - 2023

ÖZTÜRK S., YILDIRIM A., Project Supported by Higher Education Institutions, Yenilenebilir Doğal Kaynaklardan Biyolojik Vaks Mono Esterlerin Yeşil Sentezi, 2018 - 2020

Öztürk S., Project Supported by Higher Education Institutions, Asidik Ortamda Korozyon İnhibitörü Özelliği Gösterecek Uzun Zincir İçerikli Kinazolin-4(3H)-On Türevi Yeni Bileşiklerin Sentezi, 2015 - 2017

Öztürk S., Yıldırım A., Project Supported by Higher Education Institutions, Korozyon İnhibitörü Özelliği Gösterecek Amit ve Kuaterner Aminyum Sınıfı Yeni Organik Bileşiklerin Sentezi, 2011 - 2013

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, Bursa Technical University, Turkey, March 2021

Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, January 2021

Project Supported by Higher Education Institutions, BAP Research Project, Bursa Technical University, Turkey,

September 2019

Metrics

Publication: 50

Citation (WoS): 189

Citation (Scopus): 218

H-Index (WoS): 9

H-Index (Scopus): 9