

Lect. SEÇİL KAYA

Personal Information

Office Phone: [+90 312 354 8401](tel:+903123548401) Extension: 1057

Fax Phone: [+90 312 354 3835](tel:+903123543835)

Email: secilkaya@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/secilkaya>

International Researcher IDs

ScholarID: WN8q1MwAAAAJ

ORCID: 0000-0002-5939-3959

Publons / Web Of Science ResearcherID: ADF-1178-2022

ScopusID: 57542774800

Yoksis Researcher ID: 359426

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Advanced Sciences, Turkey 2020 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Advanced Sciences, Turkey 2015 - 2019

Undergraduate, Hacettepe University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 2008 - 2014

Certificates, Courses and Trainings

Other, Nanopartiküler Sistemlerin Hazırlanması, İn Vitro Ve İn Vivo Uygulamaları Kursu Programı, Ege Üniversitesi, 2023

Other, Uygulamalı Temel Hücre Kültürü Teknikleri Kursu, Gazi Üniversitesi, 2022

Quality Management, Kalite Eğitimleri, Gazi Üniversitesi, 2022

Research Areas

Life Sciences, Biomaterial, Polymers and Their Applications, Composites, nanocomposites, New Technologies in Polymer Chemistry, Polymeric Films, Polymeric Materials, Medical Applications of Polymers, Natural Sciences

Academic Titles / Tasks

Lecturer, Gazi University, Teknik Bilimler Meslek Yüksekokulu, Malzeme ve Malzeme İşleme Teknolojileri Bölümü, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Enhancing industrial wastewater treatment: Magnetite-embedded matrix membrane for efficient tetrahydrofuran separation by pervaporation and vapor permeation techniques**
Kondolot Solak E., Kaya S.
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.45, pp.1-11, 2024 (SCI-Expanded)
- Designing of Polymeric Nanoparticles for Enhanced Breast Cancer Therapy: Combining Paclitaxel,**

Boric Acid and Tannic Acid for Controlled Drug Delivery

Kaya S., Kondolot Solak E., Yiyit Doğan S., Demirkaya A., Sağdıçoğlu Celep A. G.
CHEMISTRYSELECT, vol.9, no.7, 2024 (SCI-Expanded)

- III. **Quercetin-loaded sodium alginate/collagen/h-boron nitride potential wound dressings prepared using the Box-Behnken experimental design**
Cakici G., Kaya S., Dogan S., Kondolot Solak E.
BIOTECHNOLOGY JOURNAL, vol.19, no.1, 2024 (SCI-Expanded)
- IV. **Development of ketorolac tromethamine loaded biocompatible polymeric microspheres and matrix films: designing for topical application**
Kaya S., Kondolot Solak E.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.72, no.17, pp.1329-1339, 2023 (SCI-Expanded)
- V. **Preparation, characterization, and antibacterial properties of biocompatible material for wound healing**
KONDOLOT SOLAK E., KAYA S., ASMAN G.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.58, no.10, pp.709-716, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **Green Synthesis of Silver Nanoparticles Using Origanum onites Extract: Effect of Temperature and Time on Antioxidant and Antimicrobial Activity**
Yiyit Doğan S., Kaya S., Kondolot Solak E.
Journal of Biomedical Research & Environmental Sciences, vol.5, no.9, pp.1214-1228, 2024 (Peer-Reviewed Journal)
- II. **Hypericum perforatum Releasing From Silver Sulphadiazine Loaded Sodium Alginate Membranes**
Kondolot Solak E., Kaya S.
Journal of Gazi University Health Sciences Institute, vol.2, no.1, pp.1-11, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Polimer Kimyası Laboratuvarı Deney Kitabı**
Yiyit Doğan S., Kaya S., Kondolot Solak E. (Editor), Taşkın G. (Editor)
Nobel Yayın Dağıtım, Ankara, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Encapsulation of Ganoderma lucidum with Alginate and Hydroxypropylmethylcellulose polymers: Investigation of antioxidant and antimicrobial activity**
Kaya S.
3 rd International Conference on Scientific and Academic Research, Konya, Turkey, 25 - 26 December 2023, pp.38-42
- II. **SYNTHESIS AND SWELLING STUDIES OF CARBOXYMETHYL CELLULOSESODIUM ALGINATE-A.sativa BASED HYDROGELS OPTIMIZED BY BOX- BEHNKEN RESPONSE SURFACE METHODOLOGY**
Kaya S., Kondolot Solak E., Yiyit Doğan S., Bardakçı B.
6. INTERNATIONAL ANKARA MULTIDISCIPLINARY STUDIES CONGRESS, 13 - 14 October 2023, pp.697-705
- III. **EFFECT OF SILVER NANOPARTICLES OBTAINED BY BACTERIAL GREEN SYNTHESIS ON THE REMOVAL OF METHYLENE BLUE DYE**

Yiyit Doğan S., Kaya S., Yiğit E.

International Congress on Multidisciplinary Studies-VI Ankara, Ankara, Turkey, 13 - 14 October 2023, pp.12-23

- IV. **TOTAL PHENOLIC, TOTAL FLAVONOID AND ANTIOXIDANT ACTIVITIES OF ARTEMİSİA ABSİNTHİUM EXTRACTS: A MINI REVIEW**
Kaya S., Kondolot Solak E.
International Conference on Global Practice of Multidisciplinary Scientific Studies-IV, Girne, Cyprus (Kkct), 28 - 30 April 2023, pp.2179-2191
- V. **RELEASE AND KINETICS OF 5-FU FROM 5-FU LOADED PVA/HPMC BIOCOMPATIBLE MEMBRANES**
KAYA S., TAŞKIN ÇAKICI G.
INTERNATIONAL INTERDISCIPLINARY CONGRESS OF WOMEN IN SCIENCE, Sivas, Turkey, 13 January 2023
- VI. **Synergistic Effects of Magnetite Nanoparticles in the Hole Transport Layer of Organic PV Cells**
IRMAK E., KONDOLOT SOLAK E., KAYA S., YİYİT DOĞAN S., Çakici G. T.
5th IEEE Global Power, Energy and Communication Conference, GPECOM 2023, Cappadocia, Turkey, 14 - 16 June 2023, pp.508-512
- VII. **DEVELOPMENT OF ANTIBACTERIAL AND ANTIOXIDANT EDIBLE POLYMERIC FILMS AND INVESTIGATION OF THEIR APPLICATIONS IN THE FOOD INDUSTRY**
Kaya S., Yiyit Doğan S., Kondolot Solak E., Taşkın Çakıcı G., Kişial A., Tuna L., Bardakçı B., Tezcan E. V., Tekiner T.
Ankara International Congress on Scientific Research VII, Ankara, Turkey, 2 - 04 December 2022, pp.17-18
- VIII. **Antimicrobial Biopolymer Synthesis**
Yiyit Doğan S., Kaya S., Kondolot Solak E., Çiftçi G., Yılmaz E. S., Çakmak F. M.
7. Ankara Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 2 - 04 December 2022, pp.15-16
- IX. **OPTIMIZING THE PREPARATION OF GREEN CROSS-LINKED PVA/COL MEMBRANES WITH BOX-BEHNKEN DESIGN**
Taşkın Çakıcı G., Kaya S., Kondolot Solak E.
3. International Scientific Research and Innovation Congress, İstanbul, Turkey, 27 - 28 August 2022, pp.496-504
- X. **Optimizing The Preparation Of Green CrossLinked Pva/Col Membranes With Box-Behnken Design**
TAŞKIN ÇAKICI G., KAYA S., KONDOLOT SOLAK E.
3. INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, İstanbul, Turkey, 27 - 28 August 2022
- XI. **Preparation Of Biodegradable Membranes With Sodium Alginate, Collagen And Boron Nitride Nanoparticules And In Vitro Application Of Quercetin Release As Potential Wound Dressing Patches**
TAŞKIN ÇAKICI G., YİYİT DOĞAN S., KAYA S., KONDOLOT SOLAK E.
2. INTERNATIONAL MEDITERRANEAN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Girne, Cyprus (Kkct), 30 - 31 July 2022
- XII. **Bor Katkılı Antikanser ve Antioksidan Etkili Biyopolimer Nanomalzemelerin Geliştirilmesi**
KONDOLOT SOLAK E., KAYA S., DEMİRKAYA A., SAĞDIÇOĞLU CELEP A. G.
2th International Mediterranean Scientific Research and Innovation Congress, Ankara, Turkey, 30 - 31 July 2022, pp.764-773
- XIII. **DEVELOPMENT OF BORON DOPED BIOPOLYMER NANOMATERIALS WITH ANTICANCER AND ANTIOXIDANT EFFECTS**
Kondolot Solak E., Kaya S., Demirkaya A., Sağdıçoğlu Celep A. G.
2. INTERNATIONAL MEDITERRANEAN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Girne, Cyprus (Kkct), 30 - 31 July 2022, pp.764-773
- XIV. **Development of Propolis-Polymeric Films Containing Naproxen-Loaded Microspheres for Topical Application**
KONDOLOT SOLAK E., SAĞDIÇOĞLU CELEP A. G., DEMİRKAYA A., KAYA S.
6th International Congress on Innovative Scientific Approaches, Turkey, 19 - 20 December 2021, pp.461
- XV. **Artrit Tedavisi için Propolis Katkılı Naproksen içeren Mikrokürelerin Hazırlanması, Karakterizasyonu ve Kontrollü Salımı**
KAYA S., DEMİRKAYA A., KONDOLOT SOLAK E.
33. Ulusal Kimya Kongresi, Tekirdağ, Turkey, 07 October 2021, pp.219
- XVI. **Anticancer and antioxidant activities of Artemisia absinthium loaded particles**

Kaya S., Kondolot Solak E.

5th International Symposium on Phytochemicals in Medicine and Food, Nanchang, China, 25 August - 01 September 2021, pp.415

XVII. Preparation and characterization of microspheres for controlled gallic acid release

DEMİRKAYA A., KAYA S., KONDOLOT SOLAK E., SAĞDIÇOĞLU CELEP A. G.

International Congress on Molecular Biology and Biotechnology, Afyon, Turkey, 22 December 2017, pp.56

Supported Projects

KONDOLOT SOLAK E., KAYA S., Project Supported by Higher Education Institutions, Fitoterapötik Katkılı Kanser İlaçlarının Biyouyumlu Polimerlerden Kontrollü Salımı, 2023 - Continues

Yiyit Doğan S., Kaya S., Kondolot Solak E., Project Supported by Higher Education Institutions, Yeşil Sentez ile Elde Edilmiş Gümüş Nanopartikül Katkılı Kolajen/Kitosan Filmlerin Yara İyileştirme ve Antimikrobiyal Özelliğinin Araştırılması, 2024 - 2025

Kaya S., Kişial A., TUBITAK Project, Antioksidan Özellikte Manyetik Alana Duyarlı Polimerik Yapıda Kompozit Nanomalzemelerin Kolon Kanseri Üzerindeki Etkilerinin İncelenmesi, 2023 - 2024

Kaya S., Yıldırım Y., Güler N., TUBITAK Project, Origanum onites (İzmir kekiği) ve Propolis katkı pastil formülasyonlarının geliştirilmesi, antibakteriyel ve antioksidan etkinliğin incelenmesi, 2023 - 2024

Kaya S., Bodur M. E., Ulusoy D., Tokmak O., TUBITAK Project, Sürdürülebilir kalkınma amaçlı atık balık kemiklerinden kollajen eldesi, karakterizasyonu ve kozmetik sektörü için bir ürün eldesi, 2023 - 2024

Kaya S., Başer S., Olğan D., Kışmı A., TUBITAK Project, Türk Defne Yaprağı Özünü İçeren Mikropartiküler Sistemlerin Hazırlanması, Karakterizasyonu ve Kolon Kanseri Üzerindeki Etkilerinin İncelenmesi, 2023 - 2024

Irmak E., Kondolot Solak E., Kaya S., Taşkın Çakıcı G., Yiyit Doğan S., Project Supported by Higher Education Institutions, Design, Characterization and Efficiency Analysis of a New Organic Solar Cell with Synthesized Magnetite Additive, 2023 - 2024

Kaya S., Kondolot Solak E., Yiyit Doğan S., Koçhan İ., Coşkun F. B., Dikmen E., Danacı B., Project Supported by Other Official Institutions, Ganoderma lucidum'un Aljinat ve Hidroksipropilmetilselüloz polimerleriyle kapsüllemesi ve karakterizasyonu: Fonksiyonel bir gıda takviyesinin oluşturulması, 2023 - 2023

Yiyit Doğan S., Kaya S., Kondolot Solak E., Project Supported by Other Official Institutions, GIDA TAKVİYELERİNDE KULLANILAN PROBİYOTİKLERİN CANLILIĞININ KORUNMASINI SAĞLAYACAK ENKAPSÜLASYON YÖNTEMLERİNİN ARAŞTIRILMASI, 2023 - 2023

Kaya S., Bardakçı B., TUBITAK Project, Egzama Tedavisinde Kullanılmak Üzere Radikalik Çapraz Bağlanma Reaksiyonu İle Sentezlenmiş Bitkisel Hidrojel Yara Örtü Malzemesi, 2022 - 2023

Kaya S., Kondolot Solak E., Sağdıçoğlu Celep A. G., Demirkaya A., Project Supported by Higher Education Institutions, Bor katkı antikanser ve antioksidan etkili biyopolimer nanomalzemelerin geliştirilmesi, 2021 - 2023

Yiyit Doğan S., Kaya S., Kondolot Solak E., Project Supported by Other Official Institutions, Antimicrobial Biopolymer Synthesis, 2022 - 2022

Kaya S., Kondolot Solak E., Yiyit Doğan S., Project Supported by Other Official Institutions, Antibakteriyel ve antioksidan özellikte yenilebilir polimerik filmlerin geliştirilmesi ve gıda endüstrisinde uygulamalarının araştırılması, 2022 - 2022

Kaya S., Muhammet S. M., Kondolot Solak E., Özdemir V., Project Supported by Higher Education Institutions, Preparation and characterization of polymer membranes that can be used in innovative membrane technology, 2018 - 2019

Kaya S., Kondolot Solak E., Muhammet S. M., Özdemir V., Project Supported by Higher Education Institutions, Preparation and in-vitro release of antibacterial dressing materials using biocompatible polymers, 2018 - 2019

Kondolot Solak E., Asman G., Muhammet S. M., KAYA S., Project Supported by Higher Education Institutions, MUPİROSİN İÇEREN YARA ÖRTÜ MALZEMESİNİN HAZIRLANMASI, KARAKTERİZASYONU VE MUPİROSİNİN İN KONTROLLÜ SALIMI, 2017 - 2018

Scientific Research / Working Group Memberships

Metrics

Publication: 29

Citation (WoS): 10

Citation (Scopus): 15

H-Index (WoS): 2

H-Index (Scopus): 2

Congress and Symposium Activities

Ankara International Congress on Scientific Research VII, Attendee, Ankara, Turkey, 2022

5th International Symposium on Phytochemicals in Medicine and Food, Attendee, Nanchang, China, 2022

6th International Congress on Innovative Scientific Approaches , Attendee, Samsun, Turkey, 2021

33. Ulusal Kimya Kongresi, Attendee, Tekirdağ, Turkey, 2021

4th International Symposium on Phytochemicals in Medicine and Foo, Attendee, Xian, China, 2020

6th International Molecular Biology And Biotechnology Congress, Attendee, Afyonkarahisar, Turkey, 2017

International Vocational Science Symposium, Attendee, Antalya, Turkey, 2017

International Vocational Science Symposium, Attendee, Antalya, Turkey, 2017

International Vocational Science Symposium, Attendee, Antalya, Turkey, 2017

VIII.International Symposium on Ecology and Environmental Problems, Attendee, Çanakkale, Turkey, 2017

VIII.International Symposium on Ecology and Environmental Problems, Attendee, Çanakkale, Turkey, 2017

International Congress of the New Approaches and Technologies for Sustainable Development, Attendee, Isparta, Turkey, 2017

1st International Black Sea Congress on Environmental Sciences, Attendee, Giresun, Turkey, 2016

2nd International Congress of Forensic Toxicology, Attendee, Ankara, Turkey, 2016

Scholarships

YÖK 100/2000 Doktora Bursu, YOK, 2020 - 2021