

## Prof. Serap ACAR

### Personal Information

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### International Researcher IDs

ScholarID: [jwAuJt4AAAAJ](https://orcid.org/0000-0002-6662-6642)

ORCID: 0000-0002-6662-6642

Publons / Web Of Science ResearcherID: P-9981-2018

ScopusID: 37057053800

Yoksis Researcher ID: 174423

### Biography

Serap DERMAN received her BSc degree in 2003 from Yildiz Technical University Faculty of Science-Chemistry Department and in 2008 Chemical Engineering Department. Completed her MSc degree in 2006 and PhD degree in 2012 in Bioengineering Programme at Yildiz Technical University. Serap ACAR received the title of Associate Professor in the field of Bioengineering in March 2017 and Prof. Dr. in July 2022. She works as a Principal Investigator in the Derman'S Research Group.

[www.dermanslab.com](http://www.dermanslab.com)

### Education Information

Doctorate, Yildiz Technical University, Kimya Metalurji Fakültesi, Biyomühendislik, Turkey 2006 - 2012

Undergraduate Double Major, Yildiz Technical University, Kimya Metalurji Fakültesi, Kimya Mühendisliği, Turkey 2000 - 2008

Postgraduate, Yildiz Technical University, Kimya Metalurji Fakültesi, Biyomühendislik, Turkey 2003 - 2006

Undergraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya, Turkey 1998 - 2003

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Canine Parvovirus'e Ait Antijenik Özellikli Sentetik Peptidlerin Sentezi Ve Biyokonjugatlarının Geliştirilmesi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Biyomühendislik, 2012

Postgraduate, Peptid-Protein Kovalent Konjugasyonu, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Biyomühendislik, 2006

### Research Areas

Biomaterials, Material Characterization, Nanomaterials, Life Sciences, Biotechnology, Biomaterial

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2022 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2017 - 2022

Research Assistant PhD, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2012 - 2017

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2004 - 2012

## Academic and Administrative Experience

### Courses

Biyopolimerler, Postgraduate, 2019 - 2020

Bitirme Çalışması, Undergraduate, 2019 - 2020

Biyomühendislik Laboratuvarı 2, Undergraduate, 2018 - 2019, 2017 - 2018

Bitirme Tezi, Undergraduate, 2018 - 2019, 2017 - 2018

Biochemistry in Bioengineering, Undergraduate, 2019 - 2020

Proje, Undergraduate, 2018 - 2019, 2017 - 2018

Biyoteknoloji Mühendisliği, Doctorate, 2018 - 2019

Biyomühendislik Laboratuvarı Esasları-1, Postgraduate, 2018 - 2019

Mühendisler İçin Organik Kimya, Undergraduate, 2018 - 2019

Proje, Undergraduate, 2019 - 2020

Biyomalzemeler Doku Etkileşimleri, Postgraduate, 2019 - 2020

Biyoteknoloji Mühendisliği, Doctorate, 2017 - 2018

Biyomühendislik Laboratuvarı 1, Undergraduate, 2018 - 2019, 2017 - 2018

Makromoleküler Malzemelerin Biyomühendisliği, Doctorate, 2017 - 2018

Biyomühendislikte Biyokimya, Undergraduate, 2018 - 2019, 2017 - 2018

Biyopolimerler, Postgraduate, 2018 - 2019, 2017 - 2018

Biyomalzeme Doku Etkileşimleri, Postgraduate, 2018 - 2019

Biyomühendislikte Laboratuvar Esasları I, Postgraduate, 2017 - 2018

Biyonanoteknoloji, Doctorate, 2017 - 2018

Proje, Undergraduate, 2017 - 2018

### Advising Theses

Derman S., Balık D., Utiliation of Micro and Nanotechnology In Diagnosis and Treatment, Doctorate, T.Gül(Student), Continues

DERMAN S., Brusellozis'in Saptanması için Elektrokimyasal Biyosensör, Postgraduate, B.Bengisu(Student), Continues

Derman S., Kanser Hücrelerine Hedefli Biyobozunur Nanopartiküler Sistemlerin Geliştirilmesi, Doctorate, M.Kara(Student), Continues

Derman S., Kahveci M. Ü., Hiyalüronik Asit Esaslı Mikro/Nano Boyutlu Antibakteriyel İlaç Taşıyıcı Sistemlerin Geliştirilmesi, Enzim Ve pH'a Duyarlılıklarının İncelenmesi, Doctorate, G.EROL(Student), 2024

Derman S., Biyoaktif Doku İskelesi Üretimi ve AntimikrobiyalAktivitesinin Değerlendirilmesi, Doctorate, N.BONCUKÇU(Student), 2023

Derman S., Terapötik Taşıyıcı Olarak Kullanılabilecek Fonksiyonel Poli(Beta-Amino Ester)lerin Sentezi ve Karakterizasyonu, Doctorate, E.KAHVECİ(Student), 2023

Topuzoğulları M., Derman S., Electrospun antibacterial polymer-metal composites, Postgraduate, E.NUR(Student), 2023

Derman S., Polimer Temelli Yara Örtü Malzemesi Üretimi ve Biyolojik Aktivitesinin Değerlendirilmesi, Postgraduate, C.GÜLCAN(Student), 2022

Nalbantoğlu B., Derman S., Antimikrobiyal Peptid Konjugasyonu, Karakterizasyonu ve Biyolojik Aktivite Değerlendirilmesi, Postgraduate, Y.CAN(Student), 2022

Derman S., Nanoçöktürme Yöntemi ile Biyoaktif Polietilenglikol (PEG)-b-Polikaprolacton (PCL) nanopartiküllerin üretimi, Postgraduate, M.İŞİK(Student), 2022

Derman S., Çeşitli Bitki Ekstraktları Kullanılarak Yeşil Sentez Yöntemi ile Metalik Nanopartikül Üretimi ve Antioksidan Aktivitelerinin Değerlendirilmesi, Postgraduate, A.GENÇARSLAN(Student), 2021

Derman S., Antimikrobiyal Doku İskelesinin Üretimi ve Karakterizasyonu, Postgraduate, E.Bahar(Student), 2021

Derman S., Karahan M., Q Humma Hastalığına Karşı Aşı Modeli Oluşturulması Amacıyla Sentetik Polimerlerin Lipopolisakaritlerle Konjugatlarının Geliştirilmesi Ve Yapılarının İncelenmesi, Doctorate, P.PELİT(Student), 2021

Sarıyar Akbulut B., Derman S., Formation of Curcumin-Cell Penetrating Peptide Conjugates and Evaluation of Their Antimicrobial Properties, Postgraduate, E.KÖLEOĞLU(Student), 2021

Derman S., Ebola Virüsüne ait Sentetik Peptid-Polimer Konjugatlarının ve Nanoformülasyonlarının Sentezi ve Karakterizasyonu, Doctorate, T.ACAR(Student), 2020

Derman S., Kanser tedavisine Yönelik Fonksiyonel Polimerik Nanopartiküller, Postgraduate, Y.BOZKURT(Student), 2019

Erişen S., Derman S., Yonca (Medicago sativa) Süspansiyon Kültürlerinde Floresan İşaretli Poly (lactic-co-glycolic) Asit Nanopartiküllerinin Hücreye Alımı ve Dağılımının Araştırılması, Doctorate, E.Ulusoy(Student), 2019

Derman S., Eğri Ö., Biyoaktif Yara Örtü Malzemesi Üretimi ve Karakterizasyonu, Postgraduate, S.KAYA(Student), 2019

DERMAN S., Multifonksiyonel PLGA nanopartiküllerin Üretimi ve Karakterizasyonu, Postgraduate, S.DURAK(Student), 2018

AKÇA C., DERMAN S., Magnezyum Alaşımından İmal Edilen Vücut İçi İmplantlar İçin Polimer Esaslı Kaplamaların Geliştirilmesi, Postgraduate, S.Acar(Student), 2016

DERMAN S., Juglon Yüklü Nanopartiküllerin Üretimi ve Karakterizasyonu, Postgraduate, G.YELKENCİ(Student), 2015

## **Jury Memberships**

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, May, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Yeni Yüzyıl Üniversitesi, March, 2019

Doctorate, Doktora Tezi, Yıldız Teknik Üniversitesi, December, 2018

Doctorate, Doktora Tezi, Yıldız Teknik Üniversitesi, June, 2018

Doctoral Examination, Doktora Yeterlik, Yıldız Teknik Üniversitesi, May, 2018

Post Graduate, Yüksek Lisans Tezi, İstanbul Yeni Yüzyıl Üniversitesi, April, 2018

Doctoral Examination, Doktora Yeterlilik, Yıldız Teknik Üniversitesi, March, 2018

Post Graduate, Yüksek Lisans Tezi, Yıldız Teknik Üniversitesi, June, 2017

Post Graduate, Yüksek Lisans Tezi, Yıldız Teknik Üniversitesi, June, 2017

Post Graduate, Yüksek Lisans Tezi, Yıldız Teknik Üniversitesi, June, 2017

Post Graduate, Yüksek Lisans Tezi, Yıldız Teknik Üniversitesi, May, 2017

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

1. **Micelles of poly[oligo(ethylene glycol) methacrylate] as delivery vehicles for zinc phthalocyanine**

## **photosensitizers**

Kara M., Kocaaga N., Akgul B., Abamor E. Ş., Erdoğmuş A., Topuzoğulları M., Acar S.  
Nanotechnology, vol.35, no.47, 2024 (SCI-Expanded)

- II. **Enhancing the treatment of Staphylococcus aureus infections: A nanosystem with including dual antimicrobial peptide**  
Coksu I., DOKUZ S., Akgul B., ÖZBEK T., ABAMOR E. Ş., DURANOĞLU DİNÇER D., ACAR S.  
Journal of Drug Delivery Science and Technology, vol.97, 2024 (SCI-Expanded)
- III. **Propolis-Loaded Poly(lactic-co-glycolic Acid) Nanofibers: An In Vitro Study**  
Geyik F., Kaya S., Yilmaz D. E., Demirci H., Akmayan İ., ÖZBEK T., DERMAN S.  
ACS Omega, vol.9, no.12, pp.14054-14062, 2024 (SCI-Expanded)
- IV. **Fabrication of poly( $\beta$ -amino ester) and hyaluronic acid based pH responsive nanocomplex as an antibiotic release system**  
Bakirdogen G., Selcuk E., Sahkulubey Kahveci E. L., ÖZBEK T., DERMAN S., Kahveci M. Ü.  
International Journal of Biological Macromolecules, vol.258, 2024 (SCI-Expanded)
- V. **Manufacturing Radially Aligned PCL Nanofibers Reinforced With Sulfated Levan and Evaluation of its Biological Activity for Healing Tympanic Membrane Perforations**  
Akgul B., Gulcan C., Tornaci S., ERGİNER HASKÖYLÜ M., TOKSOY ÖNER E., ABAMOR E. Ş., ACAR S., Allahverdiyev A. M.  
Macromolecular Bioscience, 2024 (SCI-Expanded)
- VI. **Nonsmall-cell lung cancer treatment: current status of drug repurposing and nanoparticle-based drug delivery systems**  
İnci T. G., DERMAN S., Turgut-Balik D.  
Turkish Journal of Biology, vol.48, no.2, pp.112-132, 2024 (SCI-Expanded)
- VII. **Host-Guest Interactions of Caffeic Acid Phenethyl Ester with  $\beta$ -Cyclodextrins: Preparation, Characterization, and In Vitro Antioxidant and Antibacterial Activity**  
Acar T., PELİT ARAYICI P., Ucar B., Coksu I., TAŞDURMAZLI S., ÖZBEK T., DERMAN S.  
ACS Omega, vol.9, no.3, pp.3625-3634, 2024 (SCI-Expanded)
- VIII. **Ketoconazole-loading strategy to improve antifungal activity and overcome cytotoxicity on human renal proximal tubular epithelial cells**  
Derman S.  
NANOTECHNOLOGY, vol.35, no.115702, pp.1-13, 2023 (SCI-Expanded)
- IX. **Investigation of cellular and molecular mechanisms of caffeic acid phenethyl ester loaded nanoparticle systems in breast cancer cell lines**  
Poyraz F. Ş., Colpan R. D., Derman S., Mansuroglu B., Erdemir A.  
Process Biochemistry, vol.134, pp.32-43, 2023 (SCI-Expanded)
- X. **A new strategy to achieve high antimicrobial activity: green synthesised silver nanoparticle formulations with Galium aparine and Helichrysum arenarium Nova strategija za postizanje visoke antimikrobne djelotvornosti: Zelena sinteza formulacija srebrnih nanočestica pomoću biljnih vrsta Galium aparine i Helichrysum arenarium**  
Ozdemir C., Gencer M., Coksu I., ÖZBEK T., DERMAN S.  
Arhiv za Higijenu Rada i Toksikologiju, vol.74, no.2, pp.90-98, 2023 (SCI-Expanded)
- XI. **Design of a bactericidal hydrogel scaffold containing genipin crosslinked HF-18 peptide**  
Boncukcu N., Akgul B., Akmayan I., Berber H., Abamor E. Ş., Özbek T., Derman S.  
Biotechnology Progress, vol.39, no.2, 2023 (SCI-Expanded)
- XII. **Glycopolymer and Poly(beta-amino ester)-Based Amphiphilic Block Copolymer as a Drug Carrier**  
Kahveci E. L. S., Kahveci M. Ü., Celebi A., Avsar T., Derman S.  
BIOMACROMOLECULES, vol.23, pp.4896-4908, 2022 (SCI-Expanded)
- XIII. **Curcumin Displays Enhanced Solubility and Antibacterial Activities When Complexed with the Cell Penetrating Peptide pVEC**  
Koleoglu E., Acar T., DERMAN S., SARIYAR AKBULUT B.  
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.28, no.4, 2022 (SCI-Expanded)

- XIV. **Caffeic Acid Phenethyl Ester Loaded Electrospun Nanofibers for Wound Dressing Application**  
Kaya S., Yilmaz D. E., Akmayan I., Egri O., Arasoglu T., DERMAN S.  
JOURNAL OF PHARMACEUTICAL SCIENCES, vol.111, no.3, pp.734-742, 2022 (SCI-Expanded)
- XV. **A nanotechnological approach in the current therapy of COVID-19: model drug oseltamivir-phosphate loaded PLGA nanoparticles targeted with spike protein binder peptide of SARS-CoV-2**  
Ucar B., Acar T., Pelit Arayıcı P., Derman S.  
NANOTECHNOLOGY, vol.32, no.48, 2021 (SCI-Expanded)
- XVI. **In Vitro Evaluation of Immunogenicity of Recombinant OMP25 Protein Obtained from Endemic Brucella abortus Biovar 3 as Vaccine Candidate Molecule Against Animal Brucellosis**  
Atabey T., Acar T., Derman S., Ordu E., Erdemir A., Tasli P. N., Gur G. K., Sahin F., Gulluce M., Arasoglu T.  
PROTEIN AND PEPTIDE LETTERS, vol.28, no.10, pp.1138-1147, 2021 (SCI-Expanded)
- XVII. **Nano-co-delivery of lipophosphoglycan with soluble and autoclaved leishmania antigens into PLGA nanoparticles: Evaluation of in vitro and in vivo immunostimulatory effects against visceral leishmaniasis**  
Tosyali O. A., Allahverdiyev A., Bagirova M., Abamor E. Ş., Aydogdu M., Dinparvar S., Acar T., Mustafaeva Z., Derman S.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.120, 2021 (SCI-Expanded)
- XVIII. **Synthetic peptide vaccine for Foot-and- Mouth Disease: synthesis, characterization and immunogenicity**  
MANSUROĞLU B., DERMAN S., Kizilbey K., Ates S. C., Akdeste Z. M.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.45, no.6, pp.859-868, 2020 (SCI-Expanded)
- XIX. **Development of lipopolysaccharide-polyoxidonium complexes and conjugates against the Q fever disease for application purpose of vaccine prototype**  
Arayici P., Acar T., Karahan M., DERMAN S., Mustafaeva Z., Toman R.  
Fresenius Environmental Bulletin, vol.29, no.12, pp.11349-11357, 2020 (SCI-Expanded)
- XX. **Synthesis and characterization of catechin loaded nanoparticles and their evaluation for antimutagenic activity against S. Typhimurium strains**  
Arasoglu T., TÜRKOĞLU B., Akmayan I., MANSUROĞLU B., DERMAN S.  
Fresenius Environmental Bulletin, vol.29, no.9, pp.7326-7334, 2020 (SCI-Expanded)
- XXI. **Synthesis and Characterization of Catechin Loaded Microparticles and Their Evaluation For Antimutagenic Activity Against S. typhimurium Mutant Strains**  
Arasoğlu T., Türkoğlu B., Akmayan İ., Mansuroğlu B., Derman S.  
Fresenius Environmental Bulletin, no.29, pp.7329-7334, 2020 (SCI-Expanded)
- XXII. **Quercetin-loaded nanoparticles enhance cytotoxicity and antioxidant activity on C6 glioma cells**  
Ersoz M., Erdemir A., Derman S., Arasoglu T., Mansuroglu B.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.25, pp.757-766, 2020 (SCI-Expanded)
- XXIII. **The battle against biofilm infections: juglone loaded nanoparticles as an anticandidal agent**  
Gumus B., Acar T., Atabey T., DERMAN S., Sahin F., ARASOĞLU T.  
JOURNAL OF BIOTECHNOLOGY, vol.316, pp.17-26, 2020 (SCI-Expanded)
- XXIV. **The Cellular Uptake, Distribution and Toxicity of Poly (lactic-co-glycolic) Acid Nanoparticles in Medicago sativa Suspension Culture**  
Ulusoy E., Derman S., Erişen S.  
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.25, no.3, pp.1572-1580, 2020 (SCI-Expanded)
- XXV. **Enhanced antibacterial and antiparasitic activity of multifunctional polymeric nanoparticles**  
Durak S., ARASOĞLU T., Ates S. C., DERMAN S.  
NANOTECHNOLOGY, vol.31, no.17, 2020 (SCI-Expanded)
- XXVI. **Cytotoxic and mutagenic potential of juglone: a comparison of free and nano-encapsulated form**  
Erişen S., Arasoğlu T., Mansuroğlu B., Kocaçalışkan İ., Derman S.  
Arhiv za Higijenu Rada i Toksikologiju, vol.71, no.1, pp.69-77, 2020 (SCI-Expanded)
- XXVII. **Antioxidant Activity and Hemocompatibility Study of Quercetin Loaded Plga Nanoparticles**

- DERMAN S., Uzunoglu D., Acar T., ARASOĞLU T., Ucak S., Ozalp V. C., MANSUROĞLU B.  
IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH, vol.19, no.1, pp.424-435, 2020 (SCI-Expanded)
- XXVIII. **Synthesis of Chitosan Nanoparticles for Controlled Release of Amiodarone**  
Buyuk N. I., Arayici P., DERMAN S., Mustafaeva Z., YÜCEL S.  
INDIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.82, no.1, pp.131-138, 2020 (SCI-Expanded)
- XXIX. **COVALENT CONJUGATION AND CHARACTERIZATION OF THE EBOLA NUCLEOPROTEIN 421-430 PEPTIDE WITH POLYACRYLIC ACID**  
Acar T., Ucar B., Arayici P., DERMAN S., Mustafaeva Z.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.29, no.7, pp.5214-5219, 2020 (SCI-Expanded)
- XXX. **An insight into the epitope-based peptide vaccine design strategy and studies against COVID-19**  
Topuzogullari M., Acar T., Pelit Arayici P., Uçar B., Uğurel E., Abamor E. Ş., Arasoğlu T., Turgut-Balık D., Derman S.  
TURKISH JOURNAL OF BIOLOGY, vol.44, no.3, pp.215-227, 2020 (SCI-Expanded)
- XXXI. **Evaluation of in vitro and in vivo immunostimulatory activities of poly (lactic-co-glycolic acid) nanoparticles loaded with soluble and autoclaved Leishmania infantum antigens: A novel vaccine candidate against visceral leishmaniasis**  
Abamor E. Ş., Allahverdiyev A., Tosyali O. A., Bağırova M., Acar T., Mustafaeva Z., Derman S.  
ASIAN PACIFIC JOURNAL OF TROPICAL MEDICINE, vol.12, no.8, pp.353-364, 2019 (SCI-Expanded)
- XXXII. **Comparative evaluation of hesperetin loaded nanoparticles for anticancer activity against C6 glioma cancer cells**  
Ersoz M., Erdemir A., Duranoglu D., Uzunoglu D., Arasoglu T., Derman S., Mansuroglu B.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.47, pp.319-329, 2019 (SCI-Expanded)
- XXXIII. **Synthesis of hesperetin-loaded PLGA nanoparticles by two different experimental design methods and biological evaluation of optimized nanoparticles**  
Duranoglu D., Uzunoglu D., Mansuroğlu B., Arasoğlu T., Derman S.  
NANOTECHNOLOGY, vol.29, 2018 (SCI-Expanded)
- XXXIV. **Assessment of the Antigenotoxic Activity of Poly(D,L-lactic-co-glycolic acid) Nanoparticles Loaded with Caffeic Acid Phenethyl Ester Using the Ames Saimonella/Microsome Assay**  
Arasoglu T., DERMAN S.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.66, no.24, pp.6196-6204, 2018 (SCI-Expanded)
- XXXV. **An In vivo study: Adjuvant activity of poly-n-vinyl-2-pyrrolidone-co-acrylic acid on immune responses against Melanoma synthetic peptide**  
Kızılbey K., MANSUROĞLU B., DERMAN S., AKDESTE Z.  
BIOENGINEERED, vol.9, no.1, pp.134-143, 2018 (SCI-Expanded)
- XXXVI. **Synthesis, characterization and antibacterial activity of juglone encapsulated PLGA nanoparticles**  
Arasoğlu T., Derman S., Mansuroğlu B., Yelkenci G., Kocyigit B., Gumus B., Acar T., Kocaçalışkan İ.  
JOURNAL OF APPLIED MICROBIOLOGY, vol.123, pp.1407-1419, 2017 (SCI-Expanded)
- XXXVII. **Preparation, characterization, and enhanced antimicrobial activity: quercetin-loaded PLGA nanoparticles against foodborne pathogens**  
ARASOĞLU T., DERMAN S., MANSUROĞLU B., Uzunoglu D., KOCYIGIT B., GUMUS B., ACAR T., TUNCER B.  
TURKISH JOURNAL OF BIOLOGY, vol.41, no.1, pp.127-140, 2017 (SCI-Expanded)
- XXXVIII. **THE STUDY OF SYNTETIC PEPTIDE LOADED PLGA NANOPARTICLES CYTOTOXICITY IN VITRO**  
DERMAN S., AKDESTE Z. M., Ates S. C., MANSUROĞLU B., Kizilbey K., BAĞIROVA M., ALLAHVERDİYEV A.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, pp.1646-1653, 2017 (SCI-Expanded)
- XXXIX. **Enhancement of Antifungal Activity of Juglone (5-Hydroxy-1,4-naphthoquinone) Using a Poly(d, l - lactic-co-glycolic acid) (PLGA) Nanoparticle System**  
Arasoğlu T., Mansuroğlu B., Derman S., Gumus B., Kocyigit B., Acar T., Kocaçalışkan İ.  
Journal of Agricultural and Food Chemistry, vol.64, no.38, pp.7087-7094, 2016 (SCI-Expanded)
- XL. **Comparative evaluation of antibacterial activity of caffeic acid phenethyl ester and PLGA nanoparticle formulation by different methods**  
ARASOĞLU T., DERMAN S., MANSUROĞLU B.  
NANOTECHNOLOGY, vol.27, no.2, 2016 (SCI-Expanded)

- XLII. HAIR, URINE AND SERUM SELENIUM STATUS IN PEDIATRIC CANCER PATIENTS**  
Karaman S., Vural S., Mansuroğlu B., Yildirmak Y., Kizilbey K., Derman S., Hazar A. B.  
PEDIATRIC BLOOD & CANCER, vol.62, 2015 (SCI-Expanded)
- XLIII. Preparation, characterization and immunological evaluation: canine parvovirus synthetic peptide loaded PLGA nanoparticles**  
DERMAN S., MUSTAFAEVA Z. A., ABAMOR E. Ş., BAĞIROVA M., ALLAHVERDİYEV A.  
JOURNAL OF BIOMEDICAL SCIENCE, vol.22, 2015 (SCI-Expanded)
- XLIV. Caffeic Acid Phenethyl Ester Loaded PLGA Nanoparticles: Effect of Various Process Parameters on Reaction Yield, Encapsulation Efficiency, and Particle Size**  
Derman S.  
JOURNAL OF NANOMATERIALS, 2015 (SCI-Expanded)
- XLV. Selenium status in blood, urine, and hair samples of newly diagnosed pediatric cancer patients**  
Karaman S., MANSUROĞLU B., Kizilbey K., Derman S., HAZAR A. B.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.45, no.2, pp.329-334, 2015 (SCI-Expanded)
- XLVI. Protective effect of chemically modified SOD on lipid peroxidation and antioxidant status in diabetic rats**  
MANSUROĞLU B., Derman S., Yaba A., Kizilbey K.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.72, pp.79-87, 2015 (SCI-Expanded)
- XLVII. Particle size and zeta potential investigation of synthetic peptide-protein conjugates**  
DERMAN S., AKDESTE Z. M.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.40, no.4, pp.282-289, 2015 (SCI-Expanded)
- XLVIII. SYNTHESIS AND CHARACTERIZATION OF CANINE PARVOVIRUS (CPV) VP2 W-7L-20 SYNTHETIC PEPTIDE FOR SYNTHETIC VACCINE**  
DERMAN S., Kizilbey K., MANSUROĞLU B., Mustafaeva Z.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.23, pp.558-566, 2014 (SCI-Expanded)
- XLIX. Poly (N-vinyl-2-pyrrolidone-co-acrylic acid): Comparing of "Traditional Heating" and "Microwave-Assisted" Free Radical Polymerization**  
Kizilbey K., Derman S., Mustafaeva Z.  
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.35, no.4, pp.1191-1196, 2013 (SCI-Expanded)
- L. Poly(N-Vinyl-2-Pyrrolidone-co-Acrylic Acid)- Bovine Serum Albumin Complex Formation Studied by HPLC and UV/Vis Spectroscopy**  
DERMAN S., Kizilbey K., MANSUROĞLU B., Mustafaeva Z.  
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.17, no.4, pp.7408-7417, 2012 (SCI-Expanded)
- L. Investigation of protein-polyelectrolyte complex and conjugates by high performance liquid chromatography methods**  
MANSUROĞLU B., Kizilbey K., Derman S., Mustafaeva Z.  
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## Articles Published in Other Journals

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Pelit Arayıcı P., Derman S., Project Supported by Higher Education Institutions, Q Humma Hastalığına Karşı Aşı Modeli Oluşturulması Amacıyla Sentetik Polimerlerin Lipopolisakaritlerle Konjugatlarının Geliştirilmesi ve Yapıların İncelenmesi, 2016 - 2021

Derman S., Demirtaş Z., TÜBİTAK Project, KUERSETİN YÜKLÜ HSA NANOPARTİKÜLLERİNİN ÜRETİMİ VE ANTİOKSİDAN AKTİVİTELERİNİN İNCELENMESİ, 2019 - 2020

ÖZBEK T., GÜMÜŞ B., ATABEY T., DERMAN S., Project Supported by Higher Education Institutions, PLGA Enkapsüle Juglon Nanopartiküllerinin Antibiyofilm Aktivitesinin İncelenmesi, 2018 - 2020

ACAR S., ACAR T., Project Supported by Higher Education Institutions, Ebola Virüsüne Ait Sentetik Peptid-Polimer Konjugatlarının ve Nanoformülasyonlarının Sentezi ve Karakterizasyonu, 2016 - 2020

ACAR S., Kaya S., Project Supported by Higher Education Institutions, Biyoaktif Yara Örtü Malzemesi Üretimi ve Karakterizasyonu, 2019 - 2019

ACAR S., Bozkurt Y., Project Supported by Higher Education Institutions, Kanser Tedavisine Yönelik Fonksiyonel Polimerik Nanopartiküller, 2019 - 2019

Derman S., Geyik F., TÜBİTAK Project, "Elektroegrilmiş PLGA [Poli (Laktik-ko-Glikolik Asit)] Temelli Yara Örtü Malzemesi Üretimi, Karakterizasyonu ve Antimikrobiyal Aktivitesinin İncelenmesi, 2018 - 2019

Derman S., Çoksu İ., TUBITAK Project, KETOKONAZOL YÜKLÜ PLGA NANOPARTİKÜLLERİNİN ÜRETİMİ VE ANTİFUNGAL AKTİVİTELERİNİN İNCELENMESİ, 2018 - 2019

Mansuroğlu B., Derman S., Duranoğlu Dinçer D., Arasoğlu T., TUBITAK Project, In Vitro Biyolojik Aktivite Çalışması: Sinapik Asit Yüklü Nanopartiküller, 2017 - 2019

ACAR S., ERSÖZ M., Project Supported by Higher Education Institutions, C6 Glioma Hücrelerinde Quercetin Yüklü Nanopartiküllerin Toksikite ve Antioksidan Etkilerinin İncelenmesi, 2017 - 2019

Derman S., Özçimen D., Öcal Z., TUBITAK Project, Yıldız Teknik Üniversitesi Ar-Ge Strateji Belgesi (Biyomalzemeler), 2015 - 2018

MANSUROĞLU B., YABA UÇAR A., TÜRKOĞLU B., DERMAN S., Project Supported by Higher Education Institutions, Streptozotocin (STZ) ile İndüklenmiş Diyabetik Sıçanlarda Enkapsüle Kateşin Molekülünün Antioksidan Aktivitesinin İncelenmesi, 2015 - 2018

ACAR S., Project Supported by Higher Education Institutions, Quercetin Yüklü Nanopartiküllerin Sentezi, Karakterizasyonu ve in-vitro Antioksidan Aktivitesinin Değerlendirilmesi, 2014 - 2018

Pelit Arayıcı P., Derman S., Mansuroğlu B., Project Supported by Higher Education Institutions, EBOLA virüs hastalığına karşı yeni nesil peptid aşı modellerinin geliştirilmesi, 2015 - 2017

Mansuroğlu B., Derman S., Kocaçalışkan İ., Arasoğlu T., TUBITAK Project, Antimikrobiyal Tedaviye Yönelik Olarak Juglon'un Biyoyumluluğunun ve Biyoyararlanımının Artırılması, 2014 - 2017

Allahverdiyev A., Derman S., Abamor E. Ş., Bağirova M., Akdeste Z., TUBITAK Project, L.Infantum'un Neden Olduğu Visseral Leishmaniasis'e Karşı Nanopartikül Temelli Aşı Formülasyonlarının Geliştirilmesi ve Koruyucu Etkilerinin Belirlenmesi, 2014 - 2017

Kılınç Y., Derman S., Pelit Arayıcı P., Akdeste Z., Project Supported by Higher Education Institutions, Viral Enfeksiyonlardan Koruyucu Yeni Nesil Peptid Aşı Modellerinin Geliştirilmesi, 2013 - 2016

ACAR S., Project Supported by Higher Education Institutions, Kafeik Asit Fenetil Ester Yüklü Nanopartiküllerin Üretimi ve Antimikrobiyal Aktivitelerinin İncelenmesi, 2014 - 2015

DERMAN S., Project Supported by Higher Education Institutions, Canine Parvoviruse Ait Antijenik Özellikli Sentetik Peptidlerin Sentezi ve Biyokonjugatlarının Geliştirilmesi, 2011 - 2012

ÇAKIR KOÇ R., ELALMIŞ Y., KILINÇ Y., KIZILBEY K., MANSUROĞLU B., DOĞRUYOL S., ALTİKATOĞLU YAPAÖZ M., MOLLAOĞLU ALTUNER H., DERMAN S., YÜKSELİCİ M. H., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Biyomedikal Malzemeler ve Yapay Dokular, 2005 - 2010

## Activities in Scientific Journals

Bulletin of Biotechnology, Committee Member, 2020 - Continues

Characterization and Application of Nanomaterials, Committee Member, 2018 - Continues

Journal of Biomedical Science & Technology, Committee Member, 2017 - Continues

SF Journal of Nanochemistry and Nanotechnology, Committee Member, 2017 - Continues

Current Updates in Nanotechnology, Committee Member, 2016 - Continues

## Memberships / Tasks in Scientific Organizations

Turkish Biochemical Society, Member, 2012 - Continues

The Federation of European Biochemical Societies (FEBS), Member, 2009 - Continues

## Scientific Refereeing

ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, SCI Journal, December 2019

TURKISH JOURNAL OF CHEMISTRY, SCI Journal, December 2019

Technopark, Yildiz Technical University, Turkey, December 2019

CIENCIA E AGROTECNOLOGIA, SCI Journal, November 2019  
TUBITAK Project, 1002 - Quick Support Program, Turkey, November 2019  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, SCI Journal, October 2019  
BRITISH JOURNAL OF PHARMACOLOGY, SCI Journal, August 2019  
TUBITAK Project, 1002 - Quick Support Program, Turkey, July 2019  
Technopark, Ege Universitesi Teknopark, Turkey, July 2019  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, June 2019  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, June 2019  
TUBITAK Project, 1002 - Quick Support Program, Turkey, June 2019  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, May 2019  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, SCI Journal, March 2019  
Journal of Nanostructure in Chemistry, Other Indexed Journal, March 2019  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, March 2019  
TUBITAK Project, 1002 - Quick Support Program, Turkey, March 2019  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, February 2019  
Technopark, Ege Üniversitesi Teknopark, Turkey, February 2019  
TUBITAK Project, December 2018  
CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Cumhurbaşkanlığı Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı), Turkey, October 2018  
European Journal of Pharmaceutics and Biopharmaceutics, SCI Journal, August 2018  
BIOMEDICINE & PHARMACOTHERAPY, SCI Journal, August 2018  
Drug Development Research, SCI Journal, August 2018  
Journal of Agricultural and Food Chemistry, SCI Journal, May 2018  
Journal of Agricultural and Food Chemistry, SCI Journal, March 2018  
Project Supported by Higher Education Institutions, March 2018  
Latin American Applied Research, SCI Journal, February 2018  
TUBITAK Project, December 2017  
4rd International Conference on Agricultural and Biological Sciences, Other journals, November 2017  
International Journal of Immunopathology and Pharmacology, SCI Journal, October 2017  
Brazilian Journal of Chemical Engineering, SCI Journal, October 2017  
2nd International Mediterranean Science and Engineering Congress, Other journals, August 2017  
TUBITAK Project, May 2017  
Pharmaceutical Nanotechnology, Other Indexed Journal, April 2017  
Current Updates in Nanotechnology, Other Indexed Journal, April 2017  
Macedonian Journal of Chemistry and Chemical Engineering, SCI Journal, March 2017  
TUBITAK Project, March 2017  
Journal of Food Engineering, SCI Journal, February 2017  
Sigma, Mühendislik ve Fen Bilimleri Dergisi, Other Indexed Journal, January 2017  
Sigma, Mühendislik ve Fen Bilimleri Dergisi, Other Indexed Journal, October 2016  
Sigma, Mühendislik ve Fen Bilimleri Dergisi, Other Indexed Journal, August 2016  
1st International Mediterranean Science and Engineering Congress, Other journals, July 2016  
Nanotechnology, SCI Journal, June 2016  
12. 2. Ulusal Tarım Kongresi, Other Journals, January 2016  
Journal of Food Process Engineering, SCI Journal, September 2015  
Sigma, Mühendislik ve Fen Bilimleri Dergisi, Other Indexed Journal, April 2015  
Journal of Food Process Engineering, SCI Journal, April 2015  
Journal of Nanoparticle Research, SCI Journal, August 2014  
Journal of Nanoparticle Research, SCI Journal, June 2014  
Sigma, Mühendislik ve Fen Bilimleri Dergisi, Other Indexed Journal, July 2013  
Journal of Chemical Society of Pakistan, SCI Journal, May 2013

## Tasks In Event Organizations

- Derman S., 5. International Mediterranean Science and Engineering Congress, Scientific Congress, Antalya, Turkey, Nisan 2020
- Saraç Özkan A., San N., Şakar Daşdan D., Akyol E., Altıkatoğlu Yapaöz M., Uğraşkan V., Bilgi M., Işık B., Cankurtaran Ö., Derman S., et al., 31. Ulusal Kimya Kongresi, Scientific Congress, İstanbul, Turkey, Eylül 2019
- Derman S., 4. International Mediterranean Science and Engineering Congress, Scientific Congress, Antalya, Turkey, Nisan 2019
- Derman S., 3. International Mediterranean Science and Engineering Congress, Scientific Congress, Adana, Turkey, Ekim 2018
- Derman S., 4. International Conference on Agricultural and Biological Sciences, Bilim Kurulu Üyesi, Scientific Congress, Hangzhou, China, Haziran 2018
- Topuzoğulları M., Derman S., Yücel S., 6th National Bioengineering Student Congress, Scientific Congress, İstanbul, Turkey, Nisan 2018
- Derman S., 2. International Mediterranean Science and Engineering Congress (IMSEC), Scientific Congress, Adana, Turkey, Ekim 2017
- Derman S., 1st International Mediterranean Science and Engineering Congress (IMSEC), Scientific Congress, Adana, Turkey, Ekim 2016
- Derman S., International Workshop on "Bioengineering; Problems and Perspectives, Workshop Organization, İstanbul, Turkey, Ekim 2004

## Scientific Research / Working Group Memberships

- Kahveci Research Group, İSTANBUL TEKNİK ÜNİVERSİTESİ, Türkiye, <https://kahvecimuk.wixsite.com/mukpolymer>, 2018 - Continues
- Derman's Research Group, Yıldız Technical University, Türkiye, <https://www.dermanslab.com/>, 2017 - Continues
- Hücre Kültür ve Doku Mühendisliği Laboratuvarı, YILDIZ TEKNİK ÜNİVERSİTESİ, Türkiye, <http://www.bioeng.yildiz.edu.tr/hk/Web%20Sitelerim%20-%20Turkce/index.htm>, 2014 - Continues

## Metrics

- Publication: 124
- Citation (WoS): 658
- Citation (Scopus): 731
- H-Index (WoS): 15
- H-Index (Scopus): 15

## Congress and Symposium Activities

6. Ulusal Biyomühendislik Öğrenci Kongresi, Session Moderator, İstanbul, Turkey, 2018
- Biyomalzeme Çalıştayı, Moderator, İstanbul, Turkey, 2017
4. Biyomalzeme Günleri, Panelists, Yalova, Turkey, 2017
- Nanoteknoloji Çalıştayı, Panelists, İstanbul, Turkey, 2017



## Scholarships

Congress Participation Scholarship, Other International Organizations, 2009 - Continues  
Yurt İçi Bilimsel Etkinliklere Katılma Desteęi, TUBİTAK, 2009 - Continues  
Yurt İçi Doktora Burs Programı, TUBİTAK, 2006 - Continues

## Awards

DERMAN S., En İyi Poster Ödülü, IV. Yaşam Bilimleri Kongresi, February 2019  
DERMAN S., Uluslararası Bilimsel Yayınları Teşvik Ödülü, TÜBİTAK, July 2018  
DERMAN S., Uluslararası Bilimsel Yayınları Teşvik Ödülü, TÜBİTAK, August 2016  
DERMAN S., En İyi Poster Ödülü, 27. Ulusal Biyokimya Kongresi, November 2015  
DERMAN S., Uluslararası Bilimsel Yayınları Teşvik Ödülü, TÜBİTAK, November 2015  
DERMAN S., Uluslararası Bilimsel Yayınları Teşvik Ödülü, Yıldız Teknik Üniversitesi, January 2012  
DERMAN S., Uluslararası Bilimsel Yayınları Teşvik Ödülü, TUBİTAK, June 2011