

## **Prof. BİLGEN OSMAN**

### **Personal Information**

**Office Phone:** [+90 224 294 1375](tel:+902242941375)

**Fax Phone:** [+90 0224 294 1898](tel:+9002242941898)

**Email:** bilgeno@uludag.edu.tr

**Web:** <https://avesis.uludag.edu.tr/bilgeno>

### **International Researcher IDs**

ScholarID: DiM9SvAAAAAJ

ORCID: 0000-0001-8406-149X

Publons / Web Of Science ResearcherID: ABF-4791-2020

ScopusID: 15221651200

Yoksis Researcher ID: 157932

### **Education Information**

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), Turkey 2005 - 2011

Postgraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, Turkey 2000 - 2004

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, Turkey 1994 - 1998

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Development of molecular imprinted surface plasmon resonance biosensor for myoglobin determination, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2011

Postgraduate, Immobilization of  $\alpha$ -amylase and invertase enzymes on poly (ethylene glycole dimethacrylate-n-vinyl imidazole) polymer, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2004

### **Research Areas**

Chemistry, Biochemistry, Functional Polymers, Polymeric Materials, Natural Sciences

### **Academic Titles / Tasks**

Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2020 - Continues

Associate Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2014 - 2020

Research Assistant, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2000 - 2014

### **Academic and Administrative Experience**

BAP Scientific Commissioner, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2019 - Continues

Vice Dean, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, 2019 - Continues

Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Kimya Bölümü, 2015 - 2019

## Courses

Biochemistry, Undergraduate, 2019 - 2020

## Advising Theses

- Osman B., Seragenin Yüklü Hidrojel Sentezi ve İlaç Salım Özelliklerinin Araştırılması, Postgraduate, N.Y.(Student), 2023
- Osman B., IMMOBILIZATION OF HORSERADISH PEROXIDASE ENZYME ONTO POLYMERIC MICROBEADS AND ITS USAGE IN DYE DECOLORIZATION, Postgraduate, A.ZHUMABEKOVA(Student), 2023
- Osman B., Amoksisilin baskılanmış polimerik nanopartikül gömülü nanolifli yüzeyin hazırlanması ve ilaç salım özelliklerinin araştırılması, Postgraduate, A.ÇERÇİ(Student), 2022
- Karaca E., Osman B., Glokom tedavisinde kullanılmak üzere latanoprost ilacı yüklü pva nanolifli yüzey üretimi, karakterizasyonu ve ilaç salım performansının değerlendirilmesi, Postgraduate, M.İLKAY(Student), 2022
- Osman B., Tetracycline removal from aqueous solution via affinity microspheres, Postgraduate, R.KARALI(Student), 2020
- Tümay Özer E., Osman B., Development of a new solid phase extraction method for determination of some organophosphorous pesticides with GC-MS in surface waters, Postgraduate, B.PARLAK(Student), 2019
- Osman B., Synthesis and characterization of tetracycline imprinted nanoparticle embedded cryogel and investigation of adsorption parameters, Doctorate, E.YEŞİLOVA(Student), 2019
- Osman B., Synthesis and characterization of molecular imprinted nanoparticle embedded p(AAm-MMA) cryogel for uric acid adsorption, Postgraduate, M.GÜMRÜKÇÜ(Student), 2018
- Osman B., Preparation and characterization of nanoparticle-based superhydrophobic surface, Postgraduate, T.AYDEMİR(Student), 2017
- Osman B., Development of molecular imprinted surface plasmon resonance biosensor for uric acid determination, Doctorate, A.GÖÇENOĞLU(Student), 2016

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

- I. **A New Design to Enhance the Enzyme Activities: Investigation of L-Asparaginase Catalytic Performance by IMAC Effect on g-C<sub>3</sub>N<sub>4</sub> Nanolayers**  
Sert B., Acet Ö., NOMA S. A. A., OSMAN B., Odabaşı M., Ocakoglu K.  
Catalysis Letters, vol.154, no.4, pp.1547-1557, 2024 (SCI-Expanded)
- II. **A New Lotus-Leaf-Inspired Beaded Nanofiber Strategy for the Development of Cryogel/Nanofiber Hybrid Structures**  
KANMAZ D., OSMAN B., KARACA E.  
Fibers and Polymers, vol.25, no.4, pp.1233-1242, 2024 (SCI-Expanded)
- III. **Decolorization of Congo Red and Reactive Black 5 Dyes with Horseradish Peroxidase-Immobilized Cross-Linked Polymeric Microbeads**  
Zhumabekova A., NOMA S. A. A., TÜMAY ÖZER E., OSMAN B.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 2024 (SCI-Expanded)
- IV. **Biosorption of tetracycline antibiotics by Lactarius deliciosus biomass**  
Göçenoğlu Sarıkaya A., Osman B., Tümay Özer E.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.211, no.4, pp.592-602, 2024 (SCI-Expanded)
- V. **Preparation and characterization of latanoprost-loaded PVA nanofibers as an ocular drug delivery**

**system for glaucoma treatment**

Altuntuğ Cesur M. İ., Osman B., Tümay Özer E., Kanmaz D., Baykara M., Karaca E.

INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.73, no.9, pp.761-770, 2024 (SCI-Expanded)

- VI. **Adsorptive removal of 4-hydroxybenzoic acid via cross-linked polymeric microbeads: analysis of isothermal, kinetic and thermodynamic parameters**

Küçük M., Ozer E., Osman B.

CHEMICAL ENGINEERING COMMUNICATIONS, vol.211, no.1, pp.40-55, 2024 (SCI-Expanded)

- VII. **Dummy molecularly imprinted polymer-based solid-phase extraction method for the determination of some phthalate monoesters in urine by gas chromatography-mass spectrometry analysis**

Küçük M., Osman B., Tümay Özer E.

JOURNAL OF CHROMATOGRAPHY, no.1713, pp.1-10, 2024 (SCI-Expanded)

- VIII. **Thioether-substituted Benzimidazolium Salts: Synthesis, Characterization, Crystal Structure, and Their Inhibitory Properties Against Acetylcholinesterase and Xanthine Oxidase**

Yavuz K., NOMA S. A. A., ŞEN YÜKSEL B., Taskin-Tok T., AKTAŞ A., ATEŞ B., OSMAN B., AYGÜN M., GÖK Y.

Journal of Molecular Structure, vol.1287, 2023 (SCI-Expanded)

- IX. **A rational approach for 3D recognition and removal of L-asparagine via molecularly imprinted membranes**

Acet Ö., NOMA S. A. A., Acet B. Ö., Dikici E., OSMAN B., Odabaşı M.

Journal of Pharmaceutical and Biomedical Analysis, vol.226, 2023 (SCI-Expanded)

- X. **P(HEMA)-SO<sub>3</sub>H catalyst: preparation, characterization and its catalytic activity in Ritter reaction**

Olmez N., OSMAN B.

RESEARCH ON CHEMICAL INTERMEDIATES, vol.48, no.12, pp.4987-5001, 2022 (SCI-Expanded)

- XI. **L-(+)-Tryptophan methyl ester derived polymeric microbeads as an efffiicient heterogeneous catalyst for green synthesis of 2-amino-4-(nitromethyl)-4H-chromene-3-carbonitriles**

Poslu A. H., OSMAN B., Kaya Y., Koz O., Koz G.

TURKISH JOURNAL OF CHEMISTRY, vol.46, no.5, pp.1642-1650, 2022 (SCI-Expanded)

- XII. **Molecularly imprinted solid-phase extraction sorbent for selective determination of melatonin**

Esen E., OSMAN B., DEMİR M. T.

MICROCHEMICAL JOURNAL, vol.170, 2021 (SCI-Expanded)

- XIII. **Design and in vivo evaluation of alginate-based pH-sensing electrospun wound dressing containing anthocyanins**

Pakolpakkil A., OSMAN B., GÖKTALAY G., Ozer E., ŞAHAN Y., BECERİR B., KARACA E.

JOURNAL OF POLYMER RESEARCH, vol.28, no.2, 2021 (SCI-Expanded)

- XIV. **Development of a new solid phase extraction method for sensitive determination of some carbamate pesticides in water using poly(EGDMA-MATrp) microbeads**

Demir O., Ulusoy H. İ., Ozer E., Osman B.

Microchemical Journal, vol.158, 2020 (SCI-Expanded)

- XV. **An experimental design approach for the solid phase extraction of some organophosphorus pesticides from water samples with polymeric microbeads**

Ozer E., Osman B., Parlak B.

MICROCHEMICAL JOURNAL, vol.154, 2020 (SCI-Expanded)

- XVI. **Molecularly imprinted composite cryogel for extracorporeal removal of uric acid**

OSMAN B., SAĞDİLEK E., Gumrukcu M., Sarlkaya G.

Colloids and Surfaces B: Biointerfaces, vol.183, 2019 (SCI-Expanded)

- XVII. **Superhydrophobic surface based on cross-linked polymer**

OSMAN B., Aydemir T. G.

MATERIALS RESEARCH EXPRESS, vol.6, no.5, 2019 (SCI-Expanded)

- XVIII. **Halochromic composite nanofibrous mat for wound healing monitoring**

Pakolpakkil A., Osman B., Ozer E., Şahan Y., Becerir B., Göktalay G., Karaca E.

Materials Research Express, vol.6, 2019 (SCI-Expanded)

- XIX. **Application of affinity microspheres for effective SPE cleanup before the determination of sulfamerazine by HPLC**  
Kilic G., OSMAN B., Tuzmen N.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.91, pp.55-63, 2018 (SCI-Expanded)
- XX. **Molecularly imprinted particle embedded composite cryogel for selective tetracycline adsorption**  
Yesilova E., OSMAN B., KARA A., Ozer E.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.200, pp.155-163, 2018 (SCI-Expanded)
- XXI. **Molecularly imprinted surface plasmon resonance (SPR) sensor for uric acid determination**  
Göçenoğlu Sarikaya A., Osman B., Cam T., Denizli A.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.251, pp.763-772, 2017 (SCI-Expanded)
- XXII. **Dummy molecularly imprinted microbeads as solid-phase extraction material for selective determination of phthalate esters in water**  
Ozer E., OSMAN B., Yazici T.  
JOURNAL OF CHROMATOGRAPHY A, vol.1500, pp.53-60, 2017 (SCI-Expanded)
- XXIII. **Adsorption and removal of diethyl phthalate from aqueous media with poly(hydroxyethyl methacrylate) nanobeads**  
Ozer E., GÖÇENOĞLU SARIKAYA A., OSMAN B.  
DESALINATION AND WATER TREATMENT, vol.57, no.59, pp.28864-28874, 2016 (SCI-Expanded)
- XXIV. **Evaluation of the effectiveness of microparticle-embedded cryogel system in removal of 17 beta-estradiol from aqueous solution**  
GÖÇENOĞLU SARIKAYA A., OSMAN B., KARA A.  
DESALINATION AND WATER TREATMENT, vol.57, no.33, pp.15570-15579, 2016 (SCI-Expanded)
- XXV. **Adsorption of cinnabarinic acid from culture fluid with magnetic microbeads**  
GÖÇENOĞLU SARIKAYA A., OSMAN B., KARA A., Pazarlioglu N., Besirli N.  
BIOMEDICAL CHROMATOGRAPHY, vol.30, no.2, pp.88-96, 2016 (SCI-Expanded)
- XXVI. **Diethyl phthalate removal from aqueous phase using poly(EGDMA-MATrp) beads: kinetic, isothermal and thermodynamic studies**  
Ozer E., OSMAN B., KARA A., Demirbel E., Besirli N., Gucer S.  
ENVIRONMENTAL TECHNOLOGY, vol.36, no.13, pp.1698-1706, 2015 (SCI-Expanded)
- XXVII. **Magnetic vinylphenyl boronic acid microparticles for Cr(VI) adsorption: Kinetic, isotherm and thermodynamic studies**  
KARA A., Demirbel E., TEKİN N., OSMAN B., Besirli N.  
JOURNAL OF HAZARDOUS MATERIALS, vol.286, pp.612-623, 2015 (SCI-Expanded)
- XXVIII. **Properties of magnetic microbeads in removing bisphenol-A from aqueous phase**  
OSMAN B., Ozer E., KARA A., Yesilova E., Besirli N.  
JOURNAL OF POROUS MATERIALS, vol.22, no.1, pp.37-46, 2015 (SCI-Expanded)
- XXIX. **Kinetic, Isothermal, and Thermodynamic Studies of Cr(VI) Adsorption on L-Tryptophan-Containing Microspheres**  
KARA A., OSMAN B., GÖÇENOĞLU SARIKAYA A., Besirli N.  
ENVIRONMENTAL ENGINEERING SCIENCE, vol.31, no.6, pp.261-271, 2014 (SCI-Expanded)
- XXX. **Potentiometric, Kinetic, and Thermodynamic Investigations into Cu<sup>2+</sup> Ion Binding Properties of Vinyl Imidazole Containing IMAC Adsorbent**  
Cam T., OSMAN B., KARA A., Demirbel E., Besirli N., Irez G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, no.2, 2014 (SCI-Expanded)
- XXXI. **Microcontact imprinted surface plasmon resonance sensor for myoglobin detection**  
OSMAN B., UZUN L., Besirli N., DENİZLİ A.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.33, no.7, pp.3609-3614, 2013 (SCI-Expanded)
- XXXII. **Development and application of a solid phase extraction method for the determination of phthalates in artificial saliva using new synthesised microspheres**

- OSMAN B., Ozer E., Besirli N., Gucer S.  
 POLYMER TESTING, vol.32, no.4, pp.810-818, 2013 (SCI-Expanded)
- XXXIII. Synthesis and characterization of L-tryptophan containing microbeads for removal of dimethyl phthalate from aqueous phase**  
 OSMAN B., Ozer E., Demirbel E., Gucer S., Besirli N.  
 SEPARATION AND PURIFICATION TECHNOLOGY, vol.109, pp.40-47, 2013 (SCI-Expanded)
- XXXIV. Adsorption Equilibrium, Kinetics and Thermodynamics of alpha-Amylase on Poly(DVB-VIM)-Cu<sup>+</sup>2 Magnetic Metal-Chelate Affinity Sorbent**  
 OSMAN B., KARA A., Demirbel E., Kok S., Besirli N.  
 APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.168, no.2, pp.279-294, 2012 (SCI-Expanded)
- XXXV. Removal of diethyl phthalate from aqueous phase using magnetic poly(EGDMA-VP) beads**  
 Ozer E., OSMAN B., KARA A., Besirli N., Gucer S., Sozeri H.  
 JOURNAL OF HAZARDOUS MATERIALS, vol.229, pp.20-28, 2012 (SCI-Expanded)
- XXXVI. Assesment of dimethyl phthalate removal from aqueous phase using barium hexaferrite containing magnetic beads**  
 OSMAN B., Ozer E., KARA A., Gucer S., Besirli N.  
 JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.378, pp.167-174, 2012 (SCI-Expanded)
- XXXVII. Vinyl Triazole Carrying Metal-Chelated Beads for the Reversible Immobilization of Glucoamylase**  
 Kok S., OSMAN B., KARA A., Besirli N.  
 JOURNAL OF APPLIED POLYMER SCIENCE, vol.120, no.5, pp.2563-2570, 2011 (SCI-Expanded)
- XXXVIII. Immobilization of Glucoamylase onto Lewis Metal Ion Chelated Magnetic Affinity Sorbent: Kinetic, Isotherm and Thermodynamic Studies**  
 OSMAN B., KARA A., Besirli N.  
 JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.48, no.5, pp.387-399, 2011 (SCI-Expanded)
- XXXIX. Poly(hydroxyethyl methacrylate) based affinity membranes for in vitro removal of anti-dsDNA antibodies from SLE plasma**  
 UZUN L., Yavuz H., OSMAN B., Celik H., DENİZLİ A.  
 INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.47, no.1, pp.44-49, 2010 (SCI-Expanded)
- XL. Removal of Heavy-Metal Ions by Magnetic Beads Containing Triazole Chelating Groups**  
 UZUN L., KARA A., OSMAN B., Yilmaz E., Besirli N., DENİZLİ A.  
 JOURNAL OF APPLIED POLYMER SCIENCE, vol.114, no.4, pp.2246-2253, 2009 (SCI-Expanded)
- XLI. Vinyl imidazole carrying metal-chelated beads for reversible use in yeast invertase adsorption**  
 Osman B., Kara A., Uzun L., Besirli N., Denizli A.  
 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATICS, vol.37, pp.88-94, 2005 (SCI-Expanded)
- XLII. Immobilization of α-amylase on Cu<sup>2+</sup> chelated poly(ethylene glycol dimethacrylate-n-vinyl imidazole) matrix via adsorption**  
 Kara A., Osman B., Yavuz H., Besirli N., Denizli A.  
 Reactive and Functional Polymers, vol.62, no.1, pp.61-68, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Lactarius deliciosus Biyokütesi ile Sulu Çözeltilerden Oksitetrasiklin Giderimi**  
 Göçenoğlu Sarıkaya A., Osman B., Tümay Özer E.  
 Karadeniz Fen Bilimleri Dergisi, vol.13, no.3, pp.1135-1152, 2023 (Peer-Reviewed Journal)
- II. **Cerrahi Alanda Kullanılan Bir Biyomalzeme: Fıtık Meshi**  
 Aras C., Işık Ö., Ömeroğlu S., Özalp R. G., Osman B., Karaca E.  
 TEKSTİL VE MUHENDİS, vol.30, no.129, pp.71-84, 2023 (Scopus)
- III. **Cibacron Blue F3GA ile modifiye polimerik mikroküreler ile RuBisCO adsorpsiyonu**  
 OSMAN B., CANSEV A.

- Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.2, pp.685-702, 2021 (Peer-Reviewed Journal)
- IV. **Tetracycline Adsorption Via Dye-Attached Polymeric Microbeads**  
GÖÇENOĞLU SARIKAYA A., OSMAN B.  
Cumhuriyet Science Journal, vol.42, no.3, 2021 (Peer-Reviewed Journal)
- V. **Bisphenol A Removal From Aqueous Phase via Polymeric Microbeads**  
Tümay Özer E., Osman B.  
Hacettepe Journal of Biology and Chemistry, vol.47, no.3, pp.249-258, 2019 (Peer-Reviewed Journal)
- VI. **Evaluation of the Effectiveness of Hydrophobic Microbeadsfor Diethyl Phthalate Removal from Aqueous Solution**  
OSMAN B., TÜMAY ÖZER E.  
Hacettepe Journal of Biology and Chemistry, vol.47, no.1, pp.77-85, 2019 (Peer-Reviewed Journal)
- VII. **Preparation of Molecularly Imprinted SPR Nanosensor for Myoglobin Detection**  
ÖZTÜRK ATAY N., OSMAN B., AKGÖL S., KARAGÖZLER A. A., DENİZLİ A.  
Current Applied Polymer Science, vol.2, no.2, pp.102-111, 2018 (Peer-Reviewed Journal)
- VIII. **Complexation of Zn<sup>2+</sup> with Vinyl Imidazole Containing IMAC Adsorbent: Potentiometric, Kinetic, and Thermodynamic Studies**  
Çam T., Osman B., Kara A., Demirbel E., Beşirli N., İrez G.  
Hacettepe Journal of Biology and Chemistry , vol.41, no.3, pp.207-219, 2013 (Peer-Reviewed Journal)
- IX. **In-Vitro Characterization of Antimicrobial Effect of Polyvinylimidazole**  
Gürbüz O., Şahan Y., Kara A., Osman B.  
Hacettepe journal of Biology and Chemistry, vol.37, no.7, pp.353-357, 2009 (Peer-Reviewed Journal)
- X. **Tyrosinase Immobilization on Cu<sup>2+</sup> Chelated Poly(ethylene glycol dimethacrylate-N-Vinyl Imidazole) Beads**  
Osman B., Kara A., Beşirli N.  
Hacettepe Journal of Biology and Chemistry, vol.35, no.3, pp.233-241, 2007 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **QUARTZ CRYSTAL MICROBALANCE based biosensors in pharmaceutical applications**  
BATTAL D., YÜCEL M., OSMAN B.  
in: Affinity sensors, Adil Denizli, Editor, hacettepe University, pp.79-104, 2018
- II. **Bölüm 3. Moleküller, Bileşikler ve Kimyasal Eşitlikler**  
Osman B., Denizli A.  
in: Genel Kimya (Nivaldo J.Tro).Moleküller Bir Yaklaşımla Kimyanın İlkeleri, Ekrem Köksal,Adil Denizli, Editor, Nobel Yayın Dağıtım, Ankara, pp.77-112, 2016
- III. **Bölüm 3.Proteinleri ve proteomu keşfetmek.**  
Osman B., Denizli A.  
in: Biyokimya, Adil Denizli,Ayşe Kevser Özden, Editor, Palme Yayın Dağıtım, Ankara, pp.33-77, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of The Effectiveness of Dummy Molecularly Imprinted Polymer for The Rapid and Selective Extraction of Monoester Phthalates from Urine**  
Küçük M., Osman B., Tümay Özer E.  
12th AGEAN ANALYTICAL CHEMISTRY DAYS, İstanbul, Turkey, 19 - 22 October 2023, pp.73
- II. **Craterellus cornucopioides Biyokütlesi ile Sulu Çözeltilerden Congo Red Giderimi**  
Özsoy Ş. N., Göçenoğlu Sarıkaya A., Osman B.  
Kromatografi XXI, Aydın, Turkey, 14 - 16 June 2023, pp.5-6
- III. **Trametes trogii Gömülü Poli(HEMA) Kriyojel ile Boyar Madde Giderimi**

- Göçenoğlu Sarıkaya A., Erden Kopar E., Osman B.  
Kromatografi XXI, Aydin, Turkey, 14 - 16 June 2023, pp.1-2
- IV. **Vanilik Asit Katkılı Poliüretan Film Üretilimi ve Karakterizasyonu**  
KÜÇÜK M., TÜMAY ÖZER E., OSMAN B.  
KROMATOGRAFİ XXI, Aydin, Turkey, 14 - 16 June 2023
- V. **The Effect of Hydrophobicity and Hydrophilicity of Nanofibers on Cryogel/Nanofiber Hybrid Biomaterial Production**  
KANMAZ D., OSMAN B., KARACA E.  
26th International Biomedical Science and Technology Symposium, Ankara, Turkey, 27 November 2022
- VI. **Amoksisilin Baskılanmış Polimerik Nanopartiküllerin Sentezi ve Karakterizasyonu**  
Çerçi A., Osman B.  
34.Uluslararası Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.12
- VII. Küçük M., Arslan G., Osman B., Tümay Özer E.  
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 07 September 2022
- VIII. Küçük M., Osman B., Tümay Özer E.  
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 07 September 2022
- IX. **Sulu Çözeltilerden Oksitetrakisiklin Ve Doksisiklin Gideriminde Lactarius deliciosus Biyosorbentinin Kullanımı**  
Göçenoğlu Sarıkaya A., Tümay Özer E., Osman B.  
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 07 September 2022
- X. **Glokom Tedavisinde Kullanılmak Üzere Bimatoprost İlacı Yüklü PVA Nanolifli Yüzey Üretimi**  
Altuntuğ Cesur M. İ., Karaca E., Osman B.  
8th International Fiber and Polymer Research Symposium, Eskişehir, Turkey, 18 June 2021
- XI. **Production of pHEMA Based Cryogel/Nanofibers Hybrid Biomaterials**  
KANMAZ D., OSMAN B., KARACA E.  
8th International Fiber and Polymer Research Symposium, Eskişehir, Turkey, 18 - 19 June 2021
- XII. **Antimikrobiyal Afiniteye Sahip Polimerlerin Sentezi ve Gıda Teknolojisi Açısından Antimikrobiyal Etkilerin İncelenmesi**  
KARA A., GÜRBÜZ O., ŞAHAN Y., OSMAN B., BEŞİRLİ N.  
V. Ulusal Afiniteteknikleri Kongresi, Turkey, 20 - 24 May 2009

## Supported Projects

KARACA E., OSMAN B., IŞIK Ö., ÖZALP R. G., ARAS C., ÖMEROĞLU S., ARI F., Project Supported by Higher Education Institutions, Fitik Oluşumunu ve Cerrahi Adezyonu Önleyici Yerli Kompozit Mesh Tasarımı Üretimi ve Karakterizasyonu, 2023 - Continues

OSMAN B., TÜMAY ÖZER E., NOMA S. A. A., ZHUMABEKOVA A., KAYA K., Project Supported by Higher Education Institutions, Peroksidad enziminin polimerik mikrokürelere immobilizasyonu ve boyalı renk giderimindeki etkinliğinin araştırılması, 2022 - Continues

OSMAN B., KARACA E., NOMA S. A. A., TÜMAY ÖZER E., DEMİR E. S., BOZKURT GÜZEL Ç., TAMAHKAR IRMAK E., ALJAYYOUSI N. Y. A., AKGÜN O., Project Supported by Higher Education Institutions, Katyonik steroid antibiyotik yüklü üç katmanlı sentetik deri ikamesinin geliştirilmesi, 2022 - Continues

OSMAN B., ÇERÇİ A., KARACA E., BOZKURT GÜZEL Ç., DEMİR E. S., ÇERÇİ A., AKGÜN O., Project Supported by Higher Education Institutions, Amoksisilin yüklü moleküller baskılanmış nanopartikül içeren nanolifli yüzeyin üretimi, karakterizasyonu ve etkinliğinin *in vitro* değerlendirilmesi, 2022 - Continues

TÜMAY ÖZER E., OSMAN B., KÜÇÜK M., Project Supported by Higher Education Institutions, İdrarda fitalat ester metabolitlerinin tayini için moleküller baskılanmış polimer temelli katı faz ekstraksiyon metodunun geliştirilmesi, 2021 - 2024

OSMAN B., CIĞIZOLU R., AKÇİÇEK F., ÖZDEMİR S., Project Supported by Higher Education Institutions, PVAaljinatkitosan hidrojelin sentezi ve karakterizasyonu, 2022 - 2022

OSMAN B., FİDAN M., Project Supported by Higher Education Institutions, Polivinil alkol jelatin hidrojelin sentezi, karakterizasyonu ve hidrolitik degredasyon özelliklerinin araştırılması, 2021 - 2022

OSMAN B., ÇERÇİ A., Project Supported by Higher Education Institutions, Amoksisilin baskılanmış polimerik nanopartiküllerin sentezi ve karakterizasyonu, 2021 - 2022

KARACA E., OSMAN B., KANMAZ D., Project Supported by Higher Education Institutions, Biyomedikal Alanda Kullanıma Yönelik PHEMA Nanolifli Yüzey Üretimi ve Karakterizasyonu, 2020 - 2021

Karaca E., Osman B., Tümay Özer E., Şahan Y., Becerir B., Göktalay G., TUBITAK Project, Çeşitli Doğal Bitki Ekstraktları Kullanılarak Ph ile Renk Değiştiren Sodyum Alginat/Polivinil Alkol Nanolifli Yara Örtüsü Üretimi ve İn Vivo Çalışmalarla Değerlendirilmesi, 2017 - 2019

Osman B., Göçenoğlu Sarıkaya A., Gümrükçü M., Yapıçı T., Project Supported by Higher Education Institutions, Ürik asit tayini için moleküller baskılanmış nanopartikül temelli yüzey plazmon rezonans SPR sensörün hazırlanması, 2016 - 2018

Osman B., Tümay Özer E., Göçenoğlu Sarıkaya A., Yeşilova E., Project Supported by Higher Education Institutions, Tetrasiklin grubu antibiyotiklerin uzaklaştırılması için moleküller baskılanmış nanopartiküllerin sentesi ve karakterizasyonu, 2015 - 2017

Osman B., Tümay Özer E., Project Supported by Higher Education Institutions, Sulu ortamdaki fitalat esterlerinin gaz kromatografisi kütle spektrometresi ile tayininde yeni bir katı faz ekstraksiyon metodunun geliştirilmesi ve uygulamaları, 2013 - 2016

Osman B., Kara A., Project Supported by Higher Education Institutions, Reaktif polimerik adsorbentler kullanılarak çevre için zararlı ağır metal iyonlarının uzaklaştırılmasında ortam koşulları parametrelerinin optimize edilmesi, 2013 - 2016

Osman B., Tümay Özer E., Project Supported by Higher Education Institutions, Poli(etylenglikoldimetakrilat-metakriloil-amidotriptofan)[Poli(EGDMA-MATrp)] Mikrokürelerin Sentezi, Karakterizasyonu Ve Sulu Çözeltiden Endokrin Bozucu Bileşiklerin Uzaklaştırılmasında Kullanılabilirliğinin Araştırılması, 2012 - 2014

Osman B., Beşirli N., TUBITAK Project, Kalp krizi teşhisne yönelik moleküller baskılanmış yüzey plazmon rezonans miyoglobin sensörün hazırlanması, 2011 - 2013

Osman B., Tümay Özer E., Project Supported by Higher Education Institutions, Manyetik Mikron Boyutlu Polimerik Küreler İle Sulu Çözeltiden Fitalat Esterlerinin Uzaklaştırılması Ve Analitik Uygulamaları, 2011 - 2013

Osman B., Beşirli N., Project Supported by Higher Education Institutions, Endüstriyel öneme sahip enzimlerin poli EGDMA VTAZ mikroküreleri üzerine immobilizasyonu, 2008 - 2011

Osman B., Kara A., Akal Solmaz S. K., Beşirli N., TUBITAK Project, Poli Etilendimetakrilat VinilTriazol Poli EDMA TAZ Mikrokürekleri ile Atık Sulardan Ağır Metal İyonlarının Uzaklaştırılması ve Dolgulu Kolon Sisteminin Geliştirilmesi, 2006 - 2008

Osman B., Beşirli N., Project Supported by Higher Education Institutions, Alfa-amilaz, invertaz ve galaktozidaz enzimlerinin immobilizasyonu, kimyasal modifikasyonlar ile stabilizasyonu ve immobilizasyonun polimere etkisinin incelenmesi, 2003 - 2006

Osman B., Beşirli N., Project Supported by Higher Education Institutions, Biyobozunur Polimerlerin Sentezi ve Karakterizasyonu, 2003 - 2006

## Patent

Karaca E., Osman B., Kanmaz D., Kriyojel/Nanolif Hibrit Biyomalzeme, Patent, CHAPTER D Textile; Paper, The Invention Registration Number: 2022/008927 , Standard Registration, 2023

Osman B., Tümay Özer E., Denizli A., KATI FAZ EKSTRAKSİYON KOLONU, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2022/014979 , Standard Registration, 2023

Karaca E., Osman B., Kanmaz D., CRYOGEL / NANO FIBER HYBRID BIOMATERIAL, Patent, CHAPTER D Textile; Paper, The Invention Recourse Number: PCT/TR2022/050573 , Standard Registration, 2022

## Metrics

Publication: 111

Citation (WoS): 792

Citation (Scopus): 905

H-Index (WoS): 15

H-Index (Scopus): 16

### **Non Academic Experience**

Uludağ Üniversitesi