

# Doç.Dr. ERDOĞAN ÖZGÜR

## Kişisel Bilgiler

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Yoksis Araştırmacı ID: 126747

## Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri, Kimya, Türkiye 2011 - 2016

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı/Biyokimya, Türkiye 2008 - 2011

Lisans, Hacettepe Üniversitesi, Ortaöğretim Fen Ve Matematik Alanları, Kimya Öğretmenliği, Türkiye 2003 - 2008

## Araştırma Alanları

Kimya, Biyokimya, Biyofiziksel Kimya, Temel Bilimler

## Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2021 - Devam Ediyor

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Pseudomonas aeruginosa imprinted polydopamine@graphene-coated pencil graphite electrode for selective bacterial detection**  
Karasu T., İDİL N., ÖZGÜR E., UZUN L.  
Colloids and Surfaces A: Physicochemical and Engineering Aspects, cilt.681, 2024 (SCI-Expanded)
- II. **Selective aptasensor for trinitrotoluene detection: Comparison of the detecting performances from liquid and vapor phases**  
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- III. **Human periodontal ligament stem cells-derived exosomes-loaded hybrid hydrogel enhances the calvarial defect regeneration in middle-age rats**  
Isik M., VARGEL İ., ÖZGÜR E., Cam S. B., KORKUSUZ P., EMREGÜL E., ODABAŞ S., DERKUŞ B.  
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- IV. **Molecular imprinted based microcryogels for thrombin purification**  
Asena Özbek M., ÖZGÜR E., BERELİ N., DENİZLİ A.  
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- V. **Highly Selective Benzo[a]Pyrene Detection Even under Competitive Conditions with Molecularly Imprinted Surface Plasmon Resonance Sensor**  
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- POLYCYCLIC AROMATIC COMPOUNDS, cilt.43, sa.5, ss.3896-3909, 2023 (SCI-Expanded)
- VI. **Inspirations of Biomimetic Affinity Ligands: A Review**  
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ACS OMEGA, cilt.7, ss.32897-32907, 2022 (SCI-Expanded)
- VII. **Quartz Crystal Microbalance-Based Aptasensors for Medical Diagnosis**  
AKGÖNÜLLÜ S., ÖZGÜR E., DENİZLİ A.  
MICROMACHINES, cilt.13, sa.9, 2022 (SCI-Expanded)
- VIII. **Diclofenac Imprinted Surface Plasmon Resonance (SPR) Based Sensor**  
Cakta K., ÖZGÜR E., BERELİ N., DENİZLİ A.  
CHEMISTRYSELECT, cilt.7, sa.18, 2022 (SCI-Expanded)
- IX. **The creation of selective imprinted cavities on quartz crystal microbalance electrode for the detection of melamine in milk sample**  
Comert S. C., ÖZGÜR E., UZUN L., ODABAŞI M.  
FOOD CHEMISTRY, cilt.372, 2022 (SCI-Expanded)
- X. **Recent Advances in Quartz Crystal Microbalance Biosensors Based on the Molecular Imprinting Technique for Disease-Related Biomarkers**  
AKGÖNÜLLÜ S., ÖZGÜR E., DENİZLİ A.  
CHEMOSENSORS, cilt.10, sa.3, 2022 (SCI-Expanded)
- XI. **A porous molecularly imprinted nanofilm for selective and sensitive sensing of an anticancer drug ruxolitinib**  
corman M. E., Cetinkaya A., ÖZCELİKAY G., ÖZGÜR E., Atıcı E. B., UZUN L., Ozkan S. A.  
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- XII. **Artificial Carbonic Anhydrase via the Molecular Imprinting Approach for Carbon Dioxide Bioconversion**  
ÖZGÜR E.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, cilt.60, sa.24, ss.8714-8719, 2021 (SCI-Expanded)
- XIII. **Borate mineral loading into acrylic bone cements to gain cost-effectivity, enhanced antibacterial resistivity, and better cellular integration properties**  
Kaplan M., ÖZGÜR E., ERSOY O., Kehribar L., İDİL N., UZUN L.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, cilt.32, sa.8, ss.980-993, 2021 (SCI-Expanded)
- XIV. **Bifunctional sharkskin mimicked chitosan/graphene oxide membranes: Reduced biofilm formation and improved cytocompatibility**  
Rostami S., Puza F., Ucak M., ÖZGÜR E., GÜL Ö., ERCAN U. K., GARİPCAN B.  
APPLIED SURFACE SCIENCE, cilt.544, 2021 (SCI-Expanded)
- XV. **Interface imprinted polymers with well-oriented recognition sites for selective purification of hemoglobin**  
ARMUTCU ÇORMAN C., ÖZGÜR E., ÇORMAN M. E., UZUN L.  
COLLOIDS AND SURFACES B-BIOINTERFACES, cilt.197, 2021 (SCI-Expanded)
- XVI. **Phosphate Anion Imprinted Cryogel Cartridges for Selective Preconcentration of Phosphorylated Amino Acids from Protein Lysate: An Alternative Sorbent for Proteome Analyses**  
ARMUTCU ÇORMAN C., Tartan C., ÖZGÜR E., NEMUTLU E., UZUN L.  
CHEMISTRYSELECT, cilt.5, sa.38, ss.11730-11736, 2020 (SCI-Expanded)
- XVII. **Lanthanide [Terbium(III)]-Doped Molecularly Imprinted Nanoarchitectures for the Fluorimetric Detection of Melatonin**  
ÖZGÜR E., Patra H. K., Turner A. P. F., DENİZLİ A., UZUN L.  
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- XVIII. **Immunoaffinity biosensor for neurofilament light chain detection and its use in Parkinson's diagnosis**  
ÖZGÜR E., Uyanık H. U., Senel S., UZUN L.  
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- XIX. **Molecularly imprinted polymer integrated plasmonic nanosensor for cocaine detection**  
ÖZGÜR E., SAYLAN Y., BERELİ N., TÜRKMEN D., DENİZLİ A.  
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- XX. **Surface plasmon resonance based biomimetic sensor for urinary tract infections**  
ÖZGÜR E., TOPÇU A. A., YILMAZ E., DENİZLİ A.  
TALANTA, cilt.212, 2020 (SCI-Expanded)
- XXI. **Molecular imprinted polymer based electrochemical sensor for selective detection of paraben**  
Yucebas B. B., YAMAN Y. T., BOLAT G., ÖZGÜR E., UZUN L., ABACI S.  
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- XXII. **Rapid Analysis of Polycyclic Aromatic Hydrocarbons in Water Samples Using an Automated On-line Two-Dimensional Liquid Chromatography**  
Armutcu C., ÖZGÜR E., Karasu T., Bayram E., UZUN L., Corman M. E.  
WATER AIR AND SOIL POLLUTION, cilt.230, sa.10, 2019 (SCI-Expanded)
- XXIII. **Design and preparation of imprinted surface plasmon resonance (SPR) nanosensor for detection of Zn(II) ions**  
Jalilzadeh M., ÇİMEN D., ÖZGÜR E., ESEN C., DENİZLİ A.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, cilt.56, sa.9, ss.877-886, 2019 (SCI-Expanded)
- XXIV. **A repertoire of biomedical applications of noble metal nanoparticles**  
Azharuddin M., Zhu G. H., Das D., ÖZGÜR E., UZUN L., Turner A. P. F., Patra H. K.  
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- XXV. **Real time monitoring and label free creatinine detection with artificial receptors**  
Topcu A. A., ÖZGÜR E., Yilmaz F., BERELİ N., DENİZLİ A.  
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- XXVI. **Quartz crystal microbalance based histidine sensor**  
Sonmezler M., ÖZGÜR E., Yavuz H., DENİZLİ A.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, cilt.47, sa.1, ss.221-227, 2019 (SCI-Expanded)
- XXVII. **Bioinspired design of a polymer-based biohybrid sensor interface**  
ÖZGÜR E., Parlak O., Beni V., Turner A. P. F., UZUN L.  
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- XXVIII. **Plastic antibody based surface plasmon resonance nanosensors for selective atrazine detection**  
Yilmaz E., ÖZGÜR E., BERELİ N., TÜRKMEN D., DENİZLİ A.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.73, ss.603-610, 2017 (SCI-Expanded)
- XXIX. **Molecular Imprinting of Macromolecules for Sensor Applications**  
SAYLAN Y., Yilmaz F., ÖZGÜR E., DERAZSHAMSHIR A., Yavuz H., DENİZLİ A.  
SENSORS, cilt.17, sa.4, 2017 (SCI-Expanded)
- XXX. **Microcontact imprinted quartz crystal microbalance nanosensor for protein C recognition**  
Bakhshpour M., ÖZGÜR E., BERELİ N., DENİZLİ A.  
COLLOIDS AND SURFACES B-BIOINTERFACES, cilt.151, ss.264-270, 2017 (SCI-Expanded)
- XXXI. **Molecularly Imprinted Quartz Crystal Microbalance Sensor (QCM) for Bilirubin Detection**  
ÇİÇEK Ç., YILMAZ F., ÖZGÜR E., Yavuz H., DENİZLİ A.  
CHEMOSENSORS, cilt.4, sa.4, 2016 (SCI-Expanded)
- XXXII. **PolyAdenine cryogels for fast and effective RNA purification**  
Kose K., Erol K., ÖZGÜR E., UZUN L., DENİZLİ A.  
COLLOIDS AND SURFACES B-BIOINTERFACES, cilt.146, ss.678-686, 2016 (SCI-Expanded)
- XXXIII. **Whole cell imprinting based Escherichia coli sensors: A study for SPR and QCM**  
YILMAZ E., Majidi D., ÖZGÜR E., DENİZLİ A.  
SENSORS AND ACTUATORS B-CHEMICAL, cilt.209, ss.714-721, 2015 (SCI-Expanded)
- XXXIV. **A New Molecular Imprinting-Based Mass-Sensitive Sensor for Real-Time Detection of 17 beta-**

- Estradiol from Aqueous Solution**  
Ozgur E., Yilmaz E., Sener G., UZUN L., Say R., DENİZLİ A.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, cilt.32, sa.4, ss.1164-1169, 2013 (SCI-Expanded)
- XXXV. Rapid real-time detection of procalcitonin using a microcontact imprinted surface plasmon resonance biosensor**  
SENER G., ÖZGÜR E., Rad A. Y., UZUN L., SAY R., DENİZLİ A.  
ANALYST, cilt.138, sa.21, ss.6422-6428, 2013 (SCI-Expanded)
- XXXVI. PHEMA cryogel for in-vitro removal of anti-dsDNA antibodies from SLE plasma**  
ÖZGÜR E., BERELİ N., TÜRKMEN D., ÜNAL S., DENİZLİ A.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.31, sa.5, ss.915-920, 2011 (SCI-Expanded)
- XXXVII. Quartz crystal microbalance based nanosensor for lysozyme detection with lysozyme imprinted nanoparticles**  
Sener G., Ozgur E., Yilmaz E., UZUN L., Say R., Denizli A.  
BIOSENSORS & BIOELECTRONICS, cilt.26, sa.2, ss.815-821, 2010 (SCI-Expanded)

## Düger Dergilerde Yayınlanan Makaleler

- I. Progress in conducting polymers for biointerfacing and biorecognition applications  
Maziz A., ÖZGÜR E., Bergaud C., UZUN L.  
SENSORS AND ACTUATORS REPORTS, cilt.3, 2021 (ESCI)

## Kitap & Kitap Bölümleri

- I. Mass-sensitive based biosensors  
ÖZGÜR E., SAYLAN İNCİ Y., AKGÖNÜLLÜ S., DENİZLİ A.  
Biosensors: Fundamentals, Emerging Technologies, and Applications, , Editör, CRC Press, ss.89-104, 2022
- II. Nanosensors for smartphone-enabled sensing devices  
SAYLAN İNCİ Y., AKGÖNÜLLÜ S., ÖZGÜR E., DENİZLİ A.  
Nanotechnology-Based Smart Remote Sensing Networks for Disaster Prevention, , Editör, Elsevier, ss.85-1104, 2022
- III. Ultrasensitive Sensors Based o Plasmonic Nanoparticles  
Denizli F., GÖKTÜRK BAŞAL I., ÖZGÜR E., YILMAZ F.  
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- IV. Plasmonic Smart Nanosensors for the Determination of Environmental Pollutants  
SAYLAN Y., YILMAZ F., ÖZGÜR E., DERAZSHAMSHIR A., DENİZLİ A.  
Emerging Carbon-Based Nanocomposites for Environmental Applications, Ajay Kumar Mishra Chaudhery Mustansar Hussain Shivani Bhardwaj Mishra, Editör, Scrivener Publishing / Wiley, ss.237-279, 2020
- V. Gold Nanoparticles and Molecular Imprinting Technique  
ÖZGÜR E., YILMAZ E., TOPÇU A. A., DENİZLİ A.  
Molecular Imprinting, , Editör, Hacettepe University Press, ss.33-46, 2019
- VI. Molecularly Imprinted Nanomaterials: Applications in Biosensors and Biodiagnostics  
YILMAZ E., ÖZGÜR E., ÇİMEN D., DENİZLİ A.  
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- VII. Surface plasmon resonance sensors for medical diagnosis  
SAYLAN Y., YILMAZ F., ÖZGÜR E., DERAZSHAMSHIR A., BERELİ N., YAVUZ ALAGÖZ H., DENİZLİ A.  
Nanotechnology Characterization Tools for Biosensing and Medical Diagnosis, Kumar, C.S.S.R., Editör, Springer Berlin Heidelberg, ss.425-458, 2018
- VIII. Yüzey Plazmon Rezonans Sensörler

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Effective RNA Purification via Adenine Decorated Cryogels**  
KÖSE K., EROL K., ÖZGÜR E., UZUN L., DENİZLİ A.  
10th International Conference Structure and Stability of Biomacromolecules (SSB 2017), Koshice, Slovakya, 4 - 07 Eylül 2017
- II. **Phenylalanine functionalized monolith coupled on-line with two-dimensional HPLC for simultaneous quantitative determination endocrine disruptors.**  
ARMUTCU ÇORMAN C., ÇORMAN M. E., ÖZGÜR E., BAYRAM E., UZUN L.  
AFFINITY 2017, Paris, Fransa, 25 - 29 Haziran 2017
- III. **Phenylalanine functionalized monolith coupled on-line with two-dimensional HPLC for simultaneous quantitative determination endocrine disruptors.**  
ARMUTCU ÇORMAN C., ÇORMAN M. E., ÖZGÜR E., BAYRAM E., UZUN L.  
AFFINITY 2017, Paris, Fransa, 25 - 29 Haziran 2017
- IV. **Smart polymerisable terbium III complex based fluorescent MIP nanoparticles**  
UZUN L., ÖZGÜR E., Patra H. K., Turner A. P.  
Biosensors 2016, 25 - 27 Mayıs 2016
- V. **Porous functional nanofilms for designing bioinspired sensor surfaces**  
ÖZGÜR E., Parlak O., UZUN L., Beni V., Turner A. P.  
Advanced Materials Wordl Congress 2015, 23 - 26 Ağustos 2015
- VI. **Microcontact imprinted surface plasmon resonance biosensor for rapid procalcitonin detection**  
ŞENER G., ÖZGÜR E., Rad A. Y., UZUN L., SAY R., DENİZLİ A.  
246th National Meeting of the American-Chemical-Society (ACS), Indiana, Amerika Birleşik Devletleri, 8 - 12 Eylül 2013, cilt.246

## Desteklenen Projeler

ÖZGÜR E., UZUN L., Yükseköğretim Kurumları Destekli Proje, Karbondioksitin (CO<sub>2</sub>) Biyolojik Dönüşümüne Yönelik Biyoyumlu Yapay Karbonik Anhidraz, 2019 - 2021

UZUN L., ÖZGÜR E., Yaman Y. T., Yükseköğretim Kurumları Destekli Proje, Seçici Paraben Tayini İçin Moleküller Baskılanmış Elektrokimyasal Sensörlerin Geliştirilmesi, 2017 - 2018

ŞENEL S., ÖZGÜR E., UZUN L., Yükseköğretim Kurumları Destekli Proje, Nörofilament hafif zinciri tayini için immunoafinite sensörün geliştirilmesi ve Parkinson tanısında kullanımının araştırılması, 2017 - 2017

UZUN L., ÖZGÜR E., Yükseköğretim Kurumları Destekli Proje, Biyoesinlenmiş Biyo-arayüzeylerin Biyosensör ve Kontrollü Salımlar Özelliğlerinin İncelenmesi, 2016 - 2017

ÖZGÜR E., TÜBİTAK Projesi, Melatonin Baskılanmış Floresan Nanopartiküllerin Tasarımı, Üretimi Ve Mevsimsel Duygusal Bozukluk Teşhisinde Kullanımının İncelenmesi, 2013 - 2014

## Metrikler

Yayın: 54

Atıf (WoS): 493

Atıf (Scopus): 1372

H-İndeks (WoS): 11

H-İndeks (Scopus): 18

## **Akademi Dışı Deneyim**

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