

## **Dr.Öğr.Üyesi MONIREH YÜCEL**

### **Kişisel Bilgiler**

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### **Uluslararası Araştırmacı ID'leri**

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### **Eğitim Bilgileri**

Post Doktora, Boston University, Electric and electronic, photocenter, Amerika Birleşik Devletleri 2021 - 2022  
Post Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya A.B.D., Türkiye 2017 - 2021  
Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya A.B.D., Türkiye 2011 - 2016  
Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya A.B.D., Türkiye 2009 - 2011

### **Yabancı Diller**

İngilizce, C1 İleri

### **Araştırma Alanları**

Aminoasitler, Enzim Kinetiği, Protein Kimyası

### **Akademik Unvanlar / Görevler**

Dr.Öğr.Üyesi, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2022 - Devam Ediyor

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

- I. **Designing of drug imprinted polymeric microcryogels for controlled release of Darunavir**  
Safak I., ÇALIŞIR M., YÜCEL M., SAĞLAM N., DENİZLİ A.  
CHEMICAL PAPERS, 2024 (SCI-Expanded)
- II. **Preparation of molecular imprinted injectable polymeric micro cryogels for control release of mitomycin C**  
Zabihi S., Bakhshpour M., ÇALIŞIR M., Topcu A. A., DENİZLİ A.  
POLYMER BULLETIN, cilt.80, sa.4, ss.3883-3895, 2023 (SCI-Expanded)
- III. **Highly-Sensitive, Label-Free Detection of Microorganisms and Viruses via Interferometric Reflectance Imaging Sensor**  
Bakhshpour-Yucel M., Gür S. D., Seymour E., Aslan M., Lortlar Ünlü N., Ünlü M. S.  
MICROMACHINES, cilt.14, sa.2, 2023 (SCI-Expanded)

- IV. **Molecularly Designed Ion-Imprinted Nanoparticles for Real-Time Sensing of Cu(II) Ions Using Quartz Crystal Microbalance**  
Aydoğan N., Aylaz G., Bakhshpour M., Tugsuz T., ANDAÇ A. M.  
Biomimetics, cilt.7, sa.4, 2022 (SCI-Expanded)
- V. **SPR Signal Enhancement With Silver Nanoparticle-Assisted Plasmonic Sensor for Selective Adenosine Detection**  
Gokturk I., Bakhshpour M., ÇİMEN D., Yilmaz F., BERELİ N., DENİZLİ A.  
IEEE SENSORS JOURNAL, cilt.22, sa.15, ss.14862-14869, 2022 (SCI-Expanded)
- VI. **Nanoscale SPR sensor for the ultrasensitive detection of the ovarian cancer marker carbohydrate antigen 125**  
DİKEN GÜR S., Bakhshpour M., DENİZLİ A.  
NEW JOURNAL OF CHEMISTRY, cilt.46, sa.15, ss.7263-7270, 2022 (SCI-Expanded)
- VII. **Sensitive and real-time detection of IgG using interferometric reflecting imaging sensor system**  
Bakhshpour M., Chiodi E., Celebi I., Saylan Y., Unlu N. L., Unlu M. S., DENİZLİ A.  
BIOSENSORS & BIOELECTRONICS, cilt.201, 2022 (SCI-Expanded)
- VIII. **An Alternative Approach for Bacterial Growth Control: Pseudomonas spp. Imprinted Polymer-Based Surface Plasmon Resonance Sensor**  
TÜRKMEN D., Yilmaz T., Bakhshpour M., DENİZLİ A.  
IEEE SENSORS JOURNAL, cilt.22, sa.4, ss.3001-3008, 2022 (SCI-Expanded)
- IX. **The Effects of Three-Dimensional Ligand Immobilization on Kinetic Measurements in Biosensors**  
Chiodi E., Marn A. M., Bakhshpour M., Ünlü N. L., Ünlü M. S.  
Polymers, cilt.14, sa.2, 2022 (SCI-Expanded)
- X. **Selective Detection of Penicillin G Antibiotic in Milk by Molecularly Imprinted Polymer-Based Plasmonic SPR Sensor**  
Bakhshpour M., Goektuerk I., BERELİ N., Yilmaz F., DENİZLİ A.  
BIOMIMETICS, cilt.6, sa.4, 2021 (SCI-Expanded)
- XI. **Microfluidic Systems for Cancer Diagnosis and Applications**  
AKGÖNÜLLÜ S., Bakhshpour M., ÖZDEN A. K., DENİZLİ A.  
MICROMACHINES, cilt.12, sa.11, 2021 (SCI-Expanded)
- XII. **Development of Molecularly Imprinted Polymer-Based Optical Sensor for the Sensitive Penicillin G Detection in Milk**  
Safran V., Gokturk I., Bakhshpour M., Yilmaz F., DENİZLİ A.  
CHEMISTRYSELECT, cilt.6, sa.43, ss.11865-11875, 2021 (SCI-Expanded)
- XIII. **Sensitive and selective detection of amitrole based on molecularly imprinted nanosensor**  
cakir O., Bakhshpour M., Gokturk I., Yilmaz F., Baysal Z.  
JOURNAL OF MOLECULAR RECOGNITION, cilt.34, sa.11, 2021 (SCI-Expanded)
- XIV. **Selective dopamine detection by SPR sensor signal amplification using gold nanoparticles**  
TÜRKMEN D., Bakhshpour M., Gokturk I., Asir S., Yilmaz F., DENİZLİ A.  
NEW JOURNAL OF CHEMISTRY, cilt.45, sa.39, ss.18296-18306, 2021 (SCI-Expanded)
- XV. **Surface Plasmon Resonance-Based Immunosensor for IgM Detection with Gold Nanoparticles**  
BERELİ N., Bakhshpour M., Topcu A. A., DENİZLİ A.  
MICROMACHINES, cilt.12, sa.9, 2021 (SCI-Expanded)
- XVI. **Antibacterial effect against both Gram-positive and Gram-negative bacteria via lysozyme imprinted cryogel membranes**  
DİKEN GÜR S., Bakhshpour M., BERELİ N., DENİZLİ A.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, cilt.32, sa.8, ss.1024-1039, 2021 (SCI-Expanded)
- XVII. **Quartz Crystal Microbalance (QCM) Based Biosensor Functionalized by HER2/neu Antibody for Breast Cancer Cell Detection**  
YILMAZ M., Bakhshpour M., Gokturk I., ÖZDEN A. K., DENİZLİ A.  
CHEMOSENSORS, cilt.9, sa.4, 2021 (SCI-Expanded)
- XVIII. **Whole cell recognition of staphylococcus aureus using biomimetic SPR sensors**

- İDİL N., Bakhshpour M., Perçin I., Mattiasson B.  
Biosensors, cilt.11, sa.5, 2021 (SCI-Expanded)
- XIX. **Highly sensitive detection of Cd(II) ions using ion-imprinted surface plasmon resonance sensors**  
Bakhshpour M., DENİZLİ A.  
MICROCHEMICAL JOURNAL, cilt.159, 2020 (SCI-Expanded)
- XX. **Molecularly imprinted cryogel cartridges for the selective recognition of tyrosine**  
Bakhshpour M., Gokturk I., BERELİ N., DENİZLİ A.  
BIOTECHNOLOGY PROGRESS, cilt.36, sa.5, 2020 (SCI-Expanded)
- XXI. **Composite Polymeric Cryogel Cartridges for Selective Removal of Cadmium Ions from Aqueous Solutions**  
Huseynli S., Bakhshpour M., Qureshi T., ANDAÇ A. M., DENİZLİ A.  
POLYMERS, cilt.12, sa.5, 2020 (SCI-Expanded)
- XXII. **Poly(Hydroxyethyl Methacrylate) Immunoaffinity Cryogel Column for the Purification of Human Immunoglobulin M**  
Bakhshpour M., Topcu A. A., BERELİ N., Alkan H., DENİZLİ A.  
GELS, cilt.6, sa.1, 2020 (SCI-Expanded)
- XXIII. **HbA1c detection via high-sensitive boronate based surface plasmon resonance sensor**  
ÇALIŞIR M., Bakhshpour M., Yavuz H., DENİZLİ A.  
SENSORS AND ACTUATORS B-CHEMICAL, cilt.306, 2020 (SCI-Expanded)
- XXIV. **Surface-imprinted silica particles for Concanavalin A purification from Canavalia ensiformis**  
Razym G., Bakhshpour M., Yavuz H., KİP F. Ç., Tuncel A., DENİZLİ A.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, cilt.1136, 2020 (SCI-Expanded)
- XXV. **Ag<sup>+</sup> ions imprinted cryogels for selective removal of silver ions from aqueous solutions**  
Şarkaya K., Bakhshpour M., DENİZLİ A.  
Separation Science and Technology (Philadelphia), cilt.54, sa.18, ss.2993-3004, 2019 (SCI-Expanded)
- XXVI. **Quartz crystal microbalance biosensor for label-free MDA MB 231 cancer cell detection via notch-4 receptor**  
Bakhshpour M., ÖZDEN A. K., Yavuz H., DENİZLİ A.  
TALANTA, cilt.204, ss.840-845, 2019 (SCI-Expanded)
- XXVII. **Selective detection of Escherichia coli caused UTIs with surface imprinted plasmonic nanoscale sensor**  
DİKEN GÜR S., Bakhshpour M., DENİZLİ A.  
MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.104, 2019 (SCI-Expanded)
- XXVIII. **Novel QCM and SPR sensors based on molecular imprinting for highly sensitive and selective detection of 2,4-dichlorophenoxyacetic acid in apple samples**  
Cakir O., Bakhshpour M., Yilmaz F., Baysal Z.  
MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.102, ss.483-491, 2019 (SCI-Expanded)
- XXIX. **Molecularly imprinted composite bacterial cellulose nanofibers for antibiotic release**  
Tamahkar E., Bakhshpour M., DENİZLİ A.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, cilt.30, sa.6, ss.450-461, 2019 (SCI-Expanded)
- XXX. **Biomedical Applications of Polymeric Cryogels**  
Bakhshpour M., İDİL N., PERÇİN DEMİRÇELİK I., DENİZLİ A.  
APPLIED SCIENCES-BASEL, cilt.9, sa.3, 2019 (SCI-Expanded)
- XXXI. **Controlled release of mitomycin C from PHEMAH-Cu(II) cryogel membranes**  
Bakhshpour M., Yavuz H., DENİZLİ A.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, cilt.46, 2018 (SCI-Expanded)
- XXXII. **Surface imprinted bacterial cellulose nanofibers for hemoglobin purification**  
Bakhshpour M., Tamahkar E., ANDAÇ A. M., DENİZLİ A.

- COLLOIDS AND SURFACES B-BIOINTERFACES, cilt.158, ss.453-459, 2017 (SCI-Expanded)
- XXXIII. **Microcontact Imprinted Plasmonic Nanosensors: Powerful Tools in the Detection of Salmonella paratyphi**  
PERÇİN DEMİRÇELİK I., İDİL N., Bakhshpour M., Yilmaz E., Mattiasson B., DENİZLİ A.  
SENSORS, cilt.17, sa.6, 2017 (SCI-Expanded)
- XXXIV. **Ion imprinted cryogels for selective removal of Ni(II) ions from aqueous solutions**  
Tamahařkar E., Bakhshpour M., ANDAÇ A. M., DENİZLİ A.  
SEPARATION AND PURIFICATION TECHNOLOGY, cilt.179, ss.36-44, 2017 (SCI-Expanded)
- XXXV. **Affinity binding of proteins to the modified bacterial cellulose nanofibers**  
Bakhshpour M., Tamahkar E., ANDAÇ A. M., DENİZLİ A.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, cilt.1052, ss.121-127, 2017 (SCI-Expanded)
- XXXVI. **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)
- XXXVII. **[PHEMA/PEI]-Cu(II) based immobilized metal affinity chromatography cryogels: Application on the separation of IgG from human plasma**  
Bakhshpour M., Derazshamshir A., BERELİ N., Elkak A., DENİZLİ A.  
MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.61, ss.824-831, 2016 (SCI-Expanded)
- XXXVIII. **Preparation and characterization of thiophilic cryogels with 2-mercapto ethanol as the ligand for IgG purification**  
Bakhshpour M., BERELİ N., Senel S.  
COLLOIDS AND SURFACES B-BIOINTERFACES, cilt.113, ss.261-268, 2014 (SCI-Expanded)

## Diger Dergilerde Yayınlanan Makaleler

- I. **Microscopic examination and comparison of exine layer of bee pollen and bee bread (Perga)**  
ÖZKÖK A., YÜCEL M., MAYDA N., DENİZLİ A., SORKUN K.  
Istanbul Journal of Pharmacy, cilt.52, 2022 (ESCI)
- II. **Heavy Metal Ions Removal From Wastewater Using Cryogels: A Review**  
TÜRKmen D., YÜCEL M., AKGÖNÜLLÜ S., AŞIR S., DENİZLİ A.  
Frontiers in Sustainability, cilt.3, 2022 (Scopus)
- III. **Preparation of bacterial cellulose/vinyl imidazole-based membranes for selective purification of Hemoglobin**  
YÜCEL M., DENİZLİ A.  
Hacettepe Journal of Biology and Chemistry, cilt.49, ss.423-431, 2021 (Hakemli Dergi)
- IV. **Versatile polymeric cryogels and their biomedical applications**  
AKGÖNÜLLÜ S., YÜCEL M., İDİL N., ANDAÇ A. M., YAVUZ ALAGÖZ H., DENİZLİ A.  
Hacettepe Journal of Biology and Chemistry, cilt.48, ss.99-118, 2020 (Hakemli Dergi)
- V. **Detection of Pesticide via Nanoparticle Based Quartz Crystal Microbalance Sensor**  
YÜCEL M., GÖKTÜRK BAŞAL I., ÇAKIR O., YILMAZ F., BAYSAL Z., DENİZLİ A.  
Hacettepe Journal of Biology and Chemistry, 2020 (Hakemli Dergi)
- VI. **Molecularly imprinted biomimetic surface plasmon resonance sensor for hormone detection**  
Turkoglu E. A., Bakhshpour M., DENİZLİ A.  
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, cilt.9, sa.4, ss.4090-4095, 2019 (ESCI)
- VII. **Preparation of Nanoparticle-Amplified Surface Plasmon Resonance Sensors Based on Molecular Imprinting for Pesticide Determination**  
ÇAKIR O., YÜCEL M., YILMAZ F., BAYSAL Z.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.8, ss.219-226, 2018 (Hakemli Dergi)

## **Kitap & Kitap Bölümleri**

- I. **Cancer Cell Recognition via Sensors System**  
YÜCEL M., özsevgiç m., Pişkin A. k., DENİZLİ A.  
Plasmonic Sensors and their Applications, , Editör, wiley, ss.157-170, 2023
- II. **Plasmonic Nanoparticles for Naked-Eye Detection of Environmental Pollutants**  
Akgönüllü S., Yücel M., Bereli N., Denizli A.  
Nanobiosensors for Environmental Monitoring, Ravindra Pratap Singh,Kingsley Eghonghon Ukhurebo,Jay Singh,Charles Oluwaseun Adetunji,Kshitij RB Singh Editors, Editör, Springer Nature, Zürich, ss.279-295, 2022
- III. **A Plasmonic Sensing Platform Based on Molecularly Imprinted Polymers for Medical Applications**  
İDİL N., YÜCEL M., ASLİYÜCE ÇOBAN S., DENİZLİ A., Mattiasson B.  
Plasmonic Sensors and their Applications , Adil Denizli, Editör, wiley, ss.87-102, 2021
- IV. **Wastewater Treatment**  
Qureshi T., YÜCEL M., ÇETİN K., TOPÇU A. A., DENİZLİ A.  
Photocatalysts in Advanced Oxidation Processes for Wastewater Treatment, Elvis Fosso-Kankeu, Sadanand Pandey, Suprakas Sinha Ray, Editör, wiley, ss.33-64, 2020
- V. **Commercial sensors for pathogen detection**  
AKGÖNÜLLÜ S., ÇİMEN D., YÜCEL M., BERELİ N., YAVUZ ALAGÖZ H., DENİZLİ A.  
COMMERCIAL BIOSENSORS AND THEIR APPLICATIONS, Mustafa Kemal Sezgitürk, Editör, Elsevier, ss.89-106, 2020
- VI. **Molecularly Imprinted Nanosensors for Microbial Contaminants**  
İDİL N., YÜCEL M., PERÇİN DEMİRÇELİK I., DENİZLİ A.  
Nanosensor Technologies for Environmental Monitoring, Inamuddin, Abdullah M. Asiri, Editör, Springer, ss.353-388, 2020
- VII. **cryogels in extracorporeal affinity therapy**  
YÜCEL M., GÖKTÜRK BAŞAL I., BERELİ N., TÜRKMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.  
cryogels and monoliths, Bo Mattiasson, Adil Denizli, Editör, hacettepe University, Ankara, ss.117-149, 2018
- VIII. **QUARTZ CRYSTAL MICROBALANCE based biosensors in pharmaceutical applications**  
BATTAL D., YÜCEL M., OSMAN B.  
Affinity sensors, Adil Denizli, Editör, hacettepe University, ss.79-104, 2018

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Surface molecularly imprinted bacterial cellulose to controlled anti-cancer drug release**  
YÜCEL M.  
5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), Ankara, Türkiye, 23 Kasım 2022
- II. **SPR-based sensing of Lysozyme using Lysozyme imprinted-modified graphene oxide surfaces**  
YÜCEL M.  
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), Ankara, Türkiye, 24 - 26 Kasım 2021
- III. **DEVELOPMENT OF MOLECULARLY IMPRINTED POLYMER BASED OPTICAL SENSOR FOR THE SENSITIVE PENICILLIN G DETECTION IN MILK**  
SAFRAN V., GÖKTÜRK BAŞAL I., YÜCEL M., YILMAZ F., DENİZLİ A.  
V. International Ege Composite Materials Symposium, Türkiye, 4 - 06 Kasım 2021
- IV. **Concanavalin A Saflaştırılması için Yüzey Baskılanmış Silika Partiküller**  
Razym G., YÜCEL M., YAVUZ ALAGÖZ H., KİP F. Ç., TUNCEL S. A., DENİZLİ A.  
Kromatografi kongresi, Ankara, Türkiye, 12 Haziran 2019
- V. **Molecularly imprinted cryogel cartridge for recognition of Tyrosine amino acid**  
YÜCEL M., GÖKTÜRK BAŞAL I., BERELİ N., DENİZLİ A.  
18. International chromatography congress, İstanbul, Türkiye, 15 - 18 Kasım 2018

- VI. İmmünoglobulin M Tayini İçin Yüzey Plazmon Rezonans Sensörlerin Geliştirilmesi  
YÜCEL M., BERELİ N., DENİZLİ A.  
12. ulusal afinite teknikleri kongresi, Türkiye, 05 Eylül 2018
- VII. Kanser Hücreleri için etkin biyosensor sistemlerinin geliştirilmesi  
YÜCEL M., YAVUZ ALAGÖZ H., Pişkin A. k., DENİZLİ A.  
11. Ulusal afinite teknikleri kongresi, Aydin, Türkiye, 15 - 18 Haziran 2017
- VIII. Anti-Kanser İlaçların Kontrollü Salımı için Moleküler Baskılanmış Kriyojeller  
YÜCEL M., YAVUZ ALAGÖZ H., DENİZLİ A.  
10. Ulusak afinite teknikleri kongresi, Balikesir, Türkiye, 26 Mayıs 2016
- IX. Preparation of L-Tyrosine Imprinted Cryogel Cartridges  
YÜCEL M., YAVUZ ALAGÖZ H., DENİZLİ A.  
9th National Affinity Techniques symposium with international contributions, Muğla, Türkiye, 06 Eylül 2015
- X. Poli(etilen imin)-Cu(II) Takılı Poli(2-hidroksietil metakrilat) monolitik kolonlarla IgG saflaştırılması  
YÜCEL M., BERELİ N., DENİZLİ A.  
7. Ulusal afinite kongresi, İzmir, Türkiye, 13 Eylül 2013
- XI. Ni(II) baskılanmış kriyojeller ile sulu çözeltilerden Ni+2 adsorpsiyonu  
YÜCEL M., TAMAHKAR IRMAK E., ANDAÇ A. M., DENİZLİ A.  
kromatografi 2013, Bursa, Türkiye, 19 Haziran 2013
- XII. Tiyofilik afinite kromatografisi ile antibadi saflaştırılması  
YÜCEL M., BERELİ N., uzun l., Senel s., DENİZLİ A.  
25.uluslararası katılımcı ulusal kimya kongresi, Erzurum, Türkiye, 27 Haziran 2011

## Desteklenen Projeler

YÜCEL M., NOMA S. A. A., KAYA K., Yükseköğretim Kurumları Destekli Proje, CuII iyonu içeren polimerik nanopartiküllere Lasparaginaz enziminin immobilizasyonu, 2023 - Devam Ediyor

## Patent

Yücel M., Denizli A., Aşır S., Şanlıdağ T., HELİCOBACTER PYLORİ (H. pylori) TAYİNİ İÇİN MOLEKÜLER BASKILANMIŞ BİYOSENSÖR YÜZEYİN HAZIRLANMASI, Patent, BÖLÜM C Kimya; Metalürji, Buluşun Tescil No: 2020/15603 , Standart Tescil, 2023