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International Researcher IDs

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Education Information

Post Doctorate, Boston University, Electric and electronic, photocenter, United States Of America 2021 - 2022
Post Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya A.B.D., Turkey 2017 - 2021
Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya A.B.D., Turkey 2011 - 2016
Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya A.B.D., Turkey 2009 - 2011

Foreign Languages

English, C1 Advanced

Research Areas

Amino Acids, Enzyme Kinetics, Protein Chemistry

Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2022 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.80, no.4, pp.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, vol.14, no.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, vol.7, no.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, vol.22, no.15, pp.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, vol.46, no.15, pp.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, vol.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, vol.22, no.4, pp.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, vol.14, no.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, vol.6, no.4, 2021 (SCI-Expanded)
- XI. **Microfluidic Systems for Cancer Diagnosis and Applications**
AKGÖNÜLLÜ S., Bakhshpour M., ÖZDEN A. K., DENİZLİ A.
MICROMACHINES, vol.12, no.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, vol.6, no.43, pp.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, vol.34, no.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, vol.45, no.39, pp.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, vol.12, no.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, vol.32, no.8, pp.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, vol.9, no.4, 2021 (SCI-Expanded)
- XVIII. **Whole cell recognition of staphylococcus aureus using biomimetic SPR sensors**

- İDİL N., Bakhshpour M., Perçin I., Mattiasson B.
Biosensors, vol.11, no.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, vol.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, vol.36, no.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, vol.12, no.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, vol.6, no.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, vol.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, vol.1136, 2020 (SCI-Expanded)
- XXV. **Ag⁺ ions imprinted cryogels for selective removal of silver ions from aqueous solutions**
Şarkaya K., Bakhshpour M., DENİZLİ A.
Separation Science and Technology (Philadelphia), vol.54, no.18, pp.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, vol.204, pp.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, vol.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, vol.102, pp.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, vol.30, no.6, pp.450-461, 2019 (SCI-Expanded)
- XXX. **Biomedical Applications of Polymeric Cryogels**
Bakhshpour M., İDİL N., PERÇİN DEMİRÇELİK I., DENİZLİ A.
APPLIED SCIENCES-BASEL, vol.9, no.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, vol.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, vol.158, pp.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, vol.17, no.6, 2017 (SCI-Expanded)
- XXXIV. **Ion imprinted cryogels for selective removal of Ni(II) ions from aqueous solutions**
 Tamahkar E., Bakhshpour M., ANDAÇ A. M., DENİZLİ A.
 SEPARATION AND PURIFICATION TECHNOLOGY, vol.179, pp.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, vol.1052, pp.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, vol.151, pp.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, vol.61, pp.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, vol.113, pp.261-268, 2014 (SCI-Expanded)

Articles Published in Other Journals

- 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, vol.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, vol.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, vol.49, pp.423-431, 2021 (Peer-Reviewed Journal)
- 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, vol.48, pp.99-118, 2020 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- VI. **Molecularly imprinted biomimetic surface plasmon resonance sensor for hormone detection**
 Turkoglu E. A., Bakhshpour M., DENİZLİ A.
 BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, vol.9, no.4, pp.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, vol.8, pp.219-226, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

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

Refereed Congress / Symposium Publications in Proceedings

- 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, Turkey, 23 November 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, Turkey, 24 - 26 November 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, Turkey, 4 - 06 November 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, Turkey, 12 June 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, Turkey, 15 - 18 November 2018
- VI. **İmmünglobulin M Tayini İçin Yüzey Plazmon Rezonans Sensörlerin Geliştirilmesi**
YÜCEL M., BERELİ N., DENİZLİ A.
12. ulusal afinite teknikleri kongresi, Turkey, 05 September 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, Turkey, 15 - 18 June 2017
- VIII. **Anti-Kanser İlaçların Kontrollü Salımı için Moleküler Baskılanmış Kriyojeller**
YÜCEL M., YAVUZ ALAGÖZ H., DENİZLİ A.
10. Ulusak afinite teknikleri kongresi, Balıkesir, Turkey, 26 May 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, Turkey, 06 September 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, Turkey, 13 September 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, Turkey, 19 June 2013
- XII. **Tiyofilik afinite kromatografisi ile antibadi saflaştırılması**
YÜCEL M., BERELİ N., uzun I., Senel s., DENİZLİ A.
25.uluslararası katılımcı ulusal kimya kongresi, Erzurum, Turkey, 27 June 2011

Supported Projects

YÜCEL M., NOMA S. A. A., KAYA K., Project Supported by Higher Education Institutions, CuII iyonu içeren polimerik nanopartiküllere Lasparaginaz enziminin immobilizasyonu, 2023 - Continues

Patent

Yücel M., Denizli A., Aşır S., Şanlıdağ T., HELİCOBACTER PYLORİ (H. pylori) TAYİNİ İÇİN MOLEKÜLER BASKILANMIŞ BİYOSENSÖR YÜZEYİN HAZIRLANMASI, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2020/15603 , Standard Registration, 2023