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## Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya A.B.D., Türkiye 2013 - 2020

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya A.B.D., Türkiye 2011 - 2013

Lisans, Tokat Gaziosmanpaşa Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Türkiye 2006 - 2010

## Yaptığı Tezler

Doktora, YÜZEY PLAZMON REZONANS (SPR) TEMELLİ AFLATOKSİN SENSÖRLERİN HAZIRLANMASI, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya A.B.D., 2020

Yüksek Lisans, L-Fenilalanin'in Tanınmasına Yönelik Afinite Kartuşlarının Hazırlanması, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya A.B.D., 2013

## Araştırma Alanları

Kimya

## Akademik Unvanlar / Görevler

Öğretim Görevlisi Dr., Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2019 - Devam Ediyor

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

- Specific DNA aptamer-immobilized cryogel membranes as novel bioaffinity supports and their potential for the purification of activated protein C**  
Aliyeva N., AKGÖNÜLLÜ S., ERDEM GÜRSAN K. A., DENİZLİ A.  
BIOMEDICAL CHROMATOGRAPHY, 2024 (SCI-Expanded)
- Surface Plasmon Resonance Biosensors for Detection of Allergen-Specific Immunoglobulin E**  
Erkek M., AKGÖNÜLLÜ S., DENİZLİ A., BERELİ N.  
IEEE SENSORS JOURNAL, sa.11, ss.17410-17417, 2024 (SCI-Expanded)
- Plasmonic nanosensors for pharmaceutical and biomedical analysis**

- AKGÖNÜLLÜ S., DENİZLİ A.  
Journal of Pharmaceutical and Biomedical Analysis, cilt.236, 2023 (SCI-Expanded)
- IV. **Molecular imprinting-based sensors: Lab-on-chip integration and biomedical applications**  
AKGÖNÜLLÜ S., DENİZLİ A.  
Journal of Pharmaceutical and Biomedical Analysis, cilt.225, 2023 (SCI-Expanded)
- V. **Molecularly Imprinted Polymer-Based Sensors for Protein Detection**  
Akgönüllü S., Kılıç S., Esen C., Denizli A.  
POLYMERS, cilt.15, sa.3, ss.629, 2023 (SCI-Expanded)
- VI. **Cibacron Blue F3GA ligand dye-based magnetic silica particles for the albumin purification**  
Tatar N., AKGÖNÜLLÜ S., Yavuz H., DENİZLİ A.  
Turkish Journal of Chemistry, cilt.47, sa.5, ss.1125-1137, 2023 (SCI-Expanded)
- VII. **Ion-imprinted-based nanochelators for iron(III) removal from synthetic gastric fluid**  
Sangu H. D., AKGÖNÜLLÜ S., DENİZLİ A.  
POLYMER BULLETIN, cilt.79, sa.10, ss.8947-8965, 2022 (SCI-Expanded)
- VIII. **Quartz Crystal Microbalance-Based Aptasensors for Medical Diagnosis**  
AKGÖNÜLLÜ S., ÖZGÜR E., DENİZLİ A.  
MICROMACHINES, cilt.13, sa.9, 2022 (SCI-Expanded)
- IX. **Molecularly imprinted polymer film based plasmonic sensors for detection of ochratoxin A in dried fig**  
AKGÖNÜLLÜ S., ARMUTCU ÇORMAN C., DENİZLİ A.  
POLYMER BULLETIN, cilt.79, sa.6, ss.4049-4067, 2022 (SCI-Expanded)
- X. **Preparation of magnetic nanoparticles-assisted plasmonic biosensors with metal affinity for interferon-alpha detection**  
Saylan Y., AKGÖNÜLLÜ S., DENİZLİ A.  
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, cilt.280, 2022 (SCI-Expanded)
- XI. **Effect of donkey milk lactoferrin and lysozyme on yoghurt properties**  
AKAL DEMİRDÖĞEN H. C., Ozturkoglu-Budak S., BERELİ N., ÇİMEN D., AKGÖNÜLLÜ S.  
MLJEKARSTVO, cilt.72, sa.2, ss.77-87, 2022 (SCI-Expanded)
- XII. **Development of ion imprinted based magnetic nanoparticles for selective removal of arsenic (III) and arsenic (V) from wastewater**  
TÜRKMEN D., Turkmen M. O., AKGÖNÜLLÜ S., DENİZLİ A.  
SEPARATION SCIENCE AND TECHNOLOGY, cilt.57, sa.6, ss.990-999, 2022 (SCI-Expanded)
- XIII. **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)
- XIV. **Development of Gold Nanoparticles Decorated Molecularly Imprinted-Based Plasmonic Sensor for the Detection of Aflatoxin M1 in Milk Samples**  
Akgönüllü S., Yavuz Alagöz H., Denizli A.  
CHEMOSENSORS, cilt.9, sa.12, ss.363-393, 2021 (SCI-Expanded)
- XV. **Microfluidic Systems for Cancer Diagnosis and Applications**  
Akgönüllü S., Bakhshpour M., Özden A. K., Denizli A.  
Micromachines, cilt.12, sa.11, ss.1349, 2021 (SCI-Expanded)
- XVI. **Use of antimicrobial proteins of donkey milk as preservative agents in Kashar cheese production**  
Ozturkoglu-Budak S., Akal H. C., BERELİ N., ÇİMEN D., AKGÖNÜLLÜ S.  
International Dairy Journal, cilt.120, 2021 (SCI-Expanded)
- XVII. **Plasmonic Sensors for Monitoring Biological and Chemical Threat Agents**  
Saylan Y., Akgönüllü S., Denizli A.  
BIOSENSORS-BASEL, cilt.10, sa.10, ss.1-15, 2020 (SCI-Expanded)
- XVIII. **SPR nanosensor based on molecularly imprinted polymer film with gold nanoparticles for sensitive**

### **detection of aflatoxin B1**

Akgönüllü S., Yavuz Alagöz H., Denizli A.

TALANTA, cilt.219, ss.1-8, 2020 (SCI-Expanded)

- XIX. **Biomimetic Nanoparticles Based Surface Plasmon Resonance Biosensors for Histamine Detection in Foods**  
Rahtuvanoglu A., AKGÖNÜLLÜ S., Karacan S., DENİZLİ A.  
CHEMISTRYSELECT, cilt.5, sa.19, ss.5683-5692, 2020 (SCI-Expanded)
- XX. **Rapid and sensitive detection of synthetic cannabinoids JWH-018, JWH-073 and their metabolites using molecularly imprinted polymer-coated QCM nanosensor in artificial saliva**  
AKGÖNÜLLÜ S., Battal D., Yalcin M. S., Yavuz H., DENİZLİ A.  
Microchemical Journal, cilt.153, 2020 (SCI-Expanded)
- XXI. **Molecularly imprinted based surface plasmon resonance nanosensors for microalbumin detection**  
Esenturk M. K., AKGÖNÜLLÜ S., Yilmaz F., DENİZLİ A.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, cilt.30, sa.8, ss.646-661, 2019 (SCI-Expanded)
- XXII. **Molecularly Imprinted Polymer Based Sensors for Medical Applications**  
SAYLAN Y., Akgonullu S., Yavuz H., ÜNAL S., DENİZLİ A.  
SENSORS, cilt.19, sa.6, 2019 (SCI-Expanded)
- XXIII. **Surface plasmon resonance aptasensor for detection of human activated protein C**  
Koyun S., AKGÖNÜLLÜ S., Yavuz H., Erdem A., DENİZLİ A.  
TALANTA, cilt.194, ss.528-533, 2019 (SCI-Expanded)
- XXIV. **Molecularly imprinted polymer based quartz crystal microbalance sensor system for sensitive and label-free detection of synthetic cannabinoids in urine**  
Battal D., AKGÖNÜLLÜ S., Yalcin M. S., Yavuz H., Denizli A.  
BIOSENSORS & BIOELECTRONICS, cilt.111, ss.10-17, 2018 (SCI-Expanded)
- XXV. **Preparation of imprinted cryogel cartridge for chiral separation of l-phenylalanine**  
AKGÖNÜLLÜ S., Yavuz H., DENİZLİ A.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, cilt.45, sa.4, ss.800-807, 2017 (SCI-Expanded)
- XXVI. **Development of surface plasmon resonance sensors based on molecularly imprinted nanofilms for sensitive and selective detection of pesticides**  
SAYLAN Y., AKGONULLU S., ÇİMEN D., DERAZSHAMSHIR A., BERELİ N., Yilmaz F., DENİZLİ A.  
SENSORS AND ACTUATORS B-CHEMICAL, cilt.241, ss.446-454, 2017 (SCI-Expanded)

### **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Recent advances in optical biosensing approaches for biomarkers detection**  
AKGÖNÜLLÜ S., DENİZLİ A.  
Biosensors and Bioelectronics: X, cilt.12, 2022 (Scopus)
- 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. **Synthesis of molecularly imprinted magnetic nanoparticles for selective cytidine adsorption**  
Ongun E., Akgönüllü S., Yavuz H., Denizli A.  
SEPARATION SCIENCE PLUS, cilt.4, sa.3, ss.147-156, 2021 (ESCI)
- IV. **Molecular Imprinting Technology for Biomimetic Assemblies**  
BERELİ N., AKGÖNÜLLÜ S., ASLIYÜCE ÇOBAN S., ÇİMEN D., GÖKTÜRK BAŞAL I., TÜRKMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.  
Hacettepe Journal of Biology and Chemistry, cilt.48, sa.5, ss.575-601, 2020 (Hakemli Dergi)
- V. **Versatile polymeric cryogels and their biomedical applications** Yazarlar  
AKGÖNÜLLÜ S., Bakhshpour M., İDİL N., ANDAÇ A. M., YAVUZ ALAGÖZ H., DENİZLİ A.  
Hacettepe Journal of Biology and Chemistry, cilt.48, sa.2, ss.99-118, 2020 (Hakemli Dergi)

## Kitap & Kitap Bölümleri

- I. **Plasmonic nanosensors for chemical warfare agents**  
AKGÖNÜLLÜ S., ÇALIŞIR M., Özbek M. A., Erkek M., BERELİ N., DENİZLİ A.  
Sensing of Deadly Toxic Chemical Warfare Agents, Nerve Agent Simulants, and their Toxicological Aspects, Sangita Das, Partha Pratim Das, Sabu Thomas, Editör, Elsevier, ss.81-96, 2023
- II. **Nanosensors for medical diagnosis**  
Saylan Y., Akgönüllü S., Denizli A.  
Nanotechnology for Hematology, Blood Transfusion, and Artificial Blood, Adil Denizli, Tuan Anh Nguyen, Mariappan Rajan, Mohammad Feroz Alam, Khaliqur Rahman, Editör, Elsevier Science, Oxford/Amsterdam, Amsterdam, ss.195-213, 2022
- III. **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
- IV. **Scaling up of biosensors for clinical applications and commercialization**  
SAYLAN İNCİ Y., AKGÖNÜLLÜ S., BERELİ N., YAVUZ ALAGÖZ H., DENİZLİ A.  
Advanced Biosensors for Virus Detection Smart Diagnostics to Combat SARS-CoV-2, , Editör, Academic Press, ss.407-421, 2022
- V. **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
- VI. **Nano-sensors and nano-devices for biological disaster monitoring (virus/disease epidemics/animal plagues detections)**  
AKGÖNÜLLÜ S., DENİZLİ A.  
Nanotechnology-Based Smart Remote Sensing Networks for Disaster Prevention, , Editör, Elsevier, ss.43-57, 2022
- VII. **Virus-Based Nanocarriers for Targeted Drug Delivery**  
AKGÖNÜLLÜ S., Bakhshpour M., SAYLAN Y., DENİZLİ A.  
Viral and Antiviral Nanomaterials Synthesis, Properties, Characterization, and Application, Devarajan Thangadurai, Saher Islam, Charles Oluwaseun Adetunji, Editör, CRC Press, Boca Raton, ss.173-191, 2022
- VIII. **Imprinted polymers in biosensors**  
SAYLAN İNCİ Y., AKGÖNÜLLÜ S., BERELİ N., DENİZLİ A.  
Biosensors: Fundamentals, Emerging Technologies, and Applications, , Editör, CRC Press, ss.123-133, 2022
- IX. **Plasmonic Nanoparticles for Naked-Eye Detection of Environmental Pollutants**  
AKGÖNÜLLÜ S., YÜCEL M., BERELİ N., DENİZLİ A.  
Nanobiosensors for Environmental Monitoring, , Editör, Springer, ss.279-297, 2022
- X. **Preparation of Surface Plasmon Resonance Aptasensor for Human Activated Protein C Sensing**  
Akgönüllü S., Koyun S., Yavuz Alagöz H., Erdem Gürsan K. A., Denizli A.  
Biomedical Engineering Technologies. Methods in Molecular Biology, Ossandon M.R. Baker H., Rasooly A., Editör, Springer Nature, New York, ss.37-56, 2021
- XI. **Plasmonic Sensors for Detection of Chemical and Biological Warfare Agents**  
Akgönüllü S., Saylan Y., Bereli N., Türkmen D., Yavuz Alagöz H., Denizli A.  
Plasmonic Sensors and their Applications, Prof. Dr. Adil Denizli, Editör, John Wiley & Sons, New York, ss.71-85, 2021
- XII. **Molecularly Imprinted Based Sensors for Detection of Allergens**  
Akgönüllü S., Yavuz Alagöz H., Denizli A.  
Molecular Imprinting for Nanosensors and Other Sensing Applications, Prof. Dr. Adil DENİZLİ, Editör, Elsevier Science, Oxford/Amsterdam, Amsterdam, ss.309-334, 2021
- XIII. **Commercial biosensors for pathogens**  
Akgönüllü S., Çimen D., Bakhshpour M., Bereli N., Yavuz Alagöz H., Denizli A.  
Commercial Biosensors and Their Applications, Mustafa Kemal Sezgintürk, Editör, Elsevier Science,

Oxford/Amsterdam , Amsterdam, ss.89-106, 2020

**XIV. Molecularly Imprinted Sensors for Detecting Controlled Release of Pesticides.**

Yılmaz F., Bereli N., Derazshamshir A., Çimen D., Akgönüllü S., Saylan Y., Topçu A. A., Denizli A.

Controlled Release of Pesticides for Sustainable Agriculture, Rakhimol K. R., Sabu Thomas, Tatiana Volova  
Jayachandran K., Editör, Springer, London/Berlin , Zürich, ss.207-235, 2019

**XV. SENSORS APPLICATIONS OF METAL NANOPARTICLES**

AKGÖNÜLLÜ S., YAVUZ ALAGÖZ H., DENİZLİ A.

PARTICULATE TECHNOLOGY AND APPLICATIONS, TUNCEL A., YAVUZ H., Editör, PALME DİZGİ GRAFİK BİRİMİ,  
Ankara, ss.205-215, 2019

**XVI. SURFACE PLASMON RESONANCE BASED SENSORS FOR ALLERGENS DETECTION**

AKGÖNÜLLÜ S., YAVUZ ALAGÖZ H., DENİZLİ A.

AFFINITY SENSORS, DENİZLİ A., Editör, PALME DİZGİ GRAFİK BİRİMİ, Ankara, ss.151-162, 2019

**XVII. MASS TRANSFER IN CRYOGELS**

BATTAL D., AKGÖNÜLLÜ S., ÇİMEN D., SAYLAN Y., ASLIYÜCE ÇOBAN S., DENİZLİ A.

CRYOGELS AND MONOLITHS, MATTIASSON B., DENİZLİ A., Editör, PALME DİZGİ-GRAFİK BİRİMİ, Ankara, ss.181-  
188, 2019

**XVIII. Bacterial cellulose nanofibers for efficient removal of Hg<sup>2+</sup> from aqueous solutions**

Irmak E. T., Türkmen D., Akgönüllü S., Qureshii T., Denizli A.

Nanotechnology for Sustainable Water Resources, Ajay Kumar Mishra, Chaudhery Mustansar Hussain, Editör, John  
Wiley & Sons, West Sussex, UK , New-Jersey, ss.501-522, 2018

**XIX. Surface plasmon resonance based nanosensors for detection of triazinic pesticides in agricultural foods**

YILMAZ F., SAYLAN Y., AKGÖNÜLLÜ S., ÇİMEN D., DERAZSHAMSHİR A., BERELİ N., DENİZLİ A.

New Pesticides and Soil Sensors, Alexandru Mihai Grumezescu, Editör, Academic Press, ss.679-718, 2017

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

**I. DETECTION OF AFLATOXIN B1 USING AV MOLECULARLY IMPRINTED POLYMER-COATED OPTIC SENSOR**

AKGÖNÜLLÜ S., YAVUZ ALAGÖZ H., DENİZLİ A.

8th Graduate Student Symposium on Molecular Imprinting, 28 - 30 Ağustos 2019

## Etkinlik Organizasyonlarındaki Görevler

Akgönüllü S., 20. Kromatografi Kongresi, Bilimsel Kongre / Sempozyum Organizasyonu, Ankara, Türkiye, Şubat 2022

## Metrikler

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