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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya A.B.D., Turkey 2013 - 2020

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya A.B.D., Turkey 2011 - 2013

Undergraduate, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, Turkey 2006 - 2010

Dissertations

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

Postgraduate, L-FenilalaninIn Tanınmasına Yönelik Afinite Kartuşlarının Hazırlanması, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya A.B.D., 2013

Research Areas

Chemistry

Academic Titles / Tasks

Lecturer PhD, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, vol.280, 2022
(Journal Indexed in SCI)
- II. **Effect of donkey milk lactoferrin and lysozyme on yoghurt properties**
AKAL DEMİRDÖĞEN H. C. , Ozturkoglu-Budak S., BERELİ N., ÇİMEN D., AKGÖNÜLLÜ S.
MLJEKARSTVO, vol.72, no.2, pp.77-87, 2022 (Journal Indexed in SCI)
- III. **Recent Advances in Quartz Crystal Microbalance Biosensors Based on the Molecular Imprinting Technique for Disease-Related Biomarkers**
AKGÖNÜLLÜ S., ÖZGÜR E., DENİZLİ A.
CHEMOSENSORS, vol.10, no.3, 2022 (Journal Indexed in SCI)
- IV. **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, vol.9, no.12, pp.363-393, 2021 (Journal Indexed in SCI Expanded)

- V. **Microfluidic Systems for Cancer Diagnosis and Applications**
Akgönüllü S., Bakhshpour M., Özden A. K., Denizli A.
Micromachines, vol.12, no.11, pp.1349, 2021 (Journal Indexed in SCI Expanded)
- VI. **Ion-imprinted-based nanochelators for iron(III) removal from synthetic gastric fluid**
Sangu H. D., AKGÖNÜLLÜ S., DENİZLİ A.
POLYMER BULLETIN, 2021 (Journal Indexed in SCI)
- VII. **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, vol.120, 2021 (Journal Indexed in SCI)
- VIII. **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, 2021 (Journal Indexed in SCI)
- 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, 2021 (Journal Indexed in SCI)
- X. **Plasmonic Sensors for Monitoring Biological and Chemical Threat Agents**
Saylan Y., Akgönüllü S., Denizli A.
BIOSENSORS-BASEL, vol.10, no.10, pp.1-15, 2020 (Journal Indexed in SCI Expanded)
- XI. **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, vol.219, pp.1-8, 2020 (Journal Indexed in SCI Expanded)
- XII. **Biomimetic Nanoparticles Based Surface Plasmon Resonance Biosensors for Histamine Detection in Foods**
Rahtuvanoglu A., AKGÖNÜLLÜ S., Karacan S., DENİZLİ A.
CHEMISTRYSELECT, vol.5, no.19, pp.5683-5692, 2020 (Journal Indexed in SCI)
- XIII. **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, vol.153, 2020 (Journal Indexed in SCI)
- XIV. **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, vol.30, no.8, pp.646-661, 2019 (Journal Indexed in SCI)
- XV. **Molecularly Imprinted Polymer Based Sensors for Medical Applications**
SAYLAN Y., Akgonullu S., Yavuz H., ÜNAL S., DENİZLİ A.
SENSORS, vol.19, no.6, 2019 (Journal Indexed in SCI)
- XVI. **Surface plasmon resonance aptasensor for detection of human activated protein C**
Koyun S., AKGÖNÜLLÜ S., Yavuz H., Erdem A., DENİZLİ A.
TALANTA, vol.194, pp.528-533, 2019 (Journal Indexed in SCI)
- XVII. **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, vol.111, pp.10-17, 2018 (Journal Indexed in SCI)
- XVIII. **Preparation of imprinted cryogel cartridge for chiral separation of l-phenylalanine**
AKGÖNÜLLÜ S., Yavuz H., DENİZLİ A.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.45, no.4, pp.800-807, 2017 (Journal Indexed in

SCI)

XIX. 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, vol.241, pp.446-454, 2017 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **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 (Refereed Journals of Other Institutions)
- II. **Synthesis of molecularly imprinted magnetic nanoparticles for selective cytidine adsorption**
Ongun E., Akgönüllü S., Yavuz H., Denizli A.
SEPARATION SCIENCE PLUS, vol.4, no.3, pp.147-156, 2021 (Journal Indexed in ESCI)
- III. **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, vol.48, no.5, pp.575-601, 2020 (Other Refereed National Journals)
- IV. **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, vol.48, no.2, pp.99-118, 2020 (Other Refereed National Journals)

Books & Book Chapters

- I. **Virus-Based Nanocarriers for Targeted Drug Delivery**
AKGÖNÜLLÜ S., Bakhshpour M., SAYLAN Y., DENİZLİ A.
in: Viral and Antiviral Nanomaterials Synthesis, Properties, Characterization, and Application, Devarajan Thangadurai, Saher Islam, Charles Oluwaseun Adetunji, Editor, CRC Press, Boca Raton, pp.173-191, 2022
- II. **Nanosensors for medical diagnosis**
Saylan Y., Akgönüllü S., Denizli A.
in: Nanotechnology for Hematology, Blood Transfusion, and Artificial Blood, Adil Denizli, Tuan Anh Nguyen, Mariappan Rajan, Mohammad Feroz Alam, Khaliqur Rahman, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.195-213, 2022
- III. **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.
in: Biomedical Engineering Technologies. Methods in Molecular Biology, Ossandon M.R. Baker H., Rasooly A., Editor, Springer Nature, New York, pp.37-56, 2021
- IV. **Plasmonic Sensors for Detection of Chemical and Biological Warfare Agents**
Akgönüllü S., Saylan Y., Bereli N., Türkmen D., Yavuz Alagöz H., Denizli A.
in: Plasmonic Sensors and their Applications, Prof. Dr. Adil Denizli, Editor, John Wiley & Sons, New York, pp.71-85, 2021
- V. **Molecularly imprinted bionanomaterials and their biomedical applications**
Akgönüllü S., Bakhshpour M., Denizli A.
in: Bionanomaterials fundamentals and biomedical applications, Ravindra Pratap Singh, Kshitij RB Singh, Editor, Institute of Physics Publishing (IOP) , Bristol, pp.9-27, 2021
- VI. **Molecularly Imprinted Based Sensors for Detection of Allergens**
Akgönüllü S., Yavuz Alagöz H., Denizli A.
in: Molecular Imprinting for Nanosensors and Other Sensing Applications, Prof. Dr. Adil DENİZLİ, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.309-334, 2021

- VII. **Plasmonic Sensors for Detection of Chemical and Biological Warfare Agents**
AKGÖNÜLLÜ S., SAYLAN Y., BERELİ N., TÜRKMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.
in: Plasmonic Sensors and their Applications, Adil Denizli, Editor, Wiley, Weinheim, pp.71-85, 2021
- VIII. **Commercial biosensors for pathogens**
Akgönüllü S., Çimen D., Bakhshpour M., Bereli N., Yavuz Alagöz H., Denizli A.
in: Commercial Biosensors and Their Applications, Mustafa Kemal Sezgintürk, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.89-106, 2020
- IX. **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.
in: Controlled Release of Pesticides for Sustainable Agriculture, Rakhimol K. R., Sabu Thomas, Tatiana Volova Jayachandran K., Editor, Springer, London/Berlin , Zürich, pp.207-235, 2019
- X. **SURFACE PLASMON RESONANCE BASED SENSORS FOR ALLERGENS DETECTION**
AKGÖNÜLLÜ S., YAVUZ ALAGÖZ H., DENİZLİ A.
in: AFFINITY SENSORS, DENİZLİ A., Editor, PALME DİZGİ GRAFİK BİRİMİ, Ankara, pp.151-162, 2019
- XI. **MASS TRANSFER IN CRYOGELS**
BATTAL D., AKGÖNÜLLÜ S., ÇİMEN D., SAYLAN Y., ASLIYÜCE ÇOBAN S., DENİZLİ A.
in: CRYOGELS AND MONOLITHS, MATTIASSON B., DENİZLİ A., Editor, PALME DİZGİ-GRAFİK BİRİMİ, Ankara, pp.181-188, 2019
- XII. **SENSORS APPLICATIONS OF METAL NANOPARTICLES**
AKGÖNÜLLÜ S., YAVUZ ALAGÖZ H., DENİZLİ A.
in: PARTICULATE TECHNOLOGY AND APPLICATIONS, TUNCEL A., YAVUZ H., Editor, PALME DİZGİ GRAFİK BİRİMİ, Ankara, pp.205-215, 2019
- XIII. **Bacterial cellulose nanofibers for efficient removal of Hg²⁺ from aqueous solutions**
Irmak E. T. , Türkmen D., Akgönüllü S., Qureshii T., Denizli A.
in: Nanotechnology for Sustainable Water Resources, Ajay Kumar Mishra, Chaudhery Mustansar Hussain, Editor, John Wiley & Sons, West Sussex, UK , New-Jersey, pp.501-522, 2018
- XIV. **Bacterial cellulose nanofibers for efficient removal of Hg²⁺ from aqueous solutions**
TAMAHKAR IRMAK E., TÜRKMEN D., AKGÖNÜLLÜ S., QURESHI T., DENİZLİ A.
in: Nanotechnology for Sustainable Water Resources, Ajay Kumar Mishra, Chaudhery Mustansar Hussain, Editor, John Wiley Sons, Inc., pp.501-522, 2018
- XV. **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.
in: New Pesticides and Soil Sensors, Alexandru Mihai Grumezescu, Editor, Academic Press, pp.679-718, 2017

Refereed Congress / Symposium Publications in Proceedings

- 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 August 2019

Tasks In Event Organizations

Akgönüllü S., 20. Kromatografi Kongresi, Scientific Congress, Ankara, Turkey, Şubat 2022

Citations

Total Citations (WOS):321

h-index (WOS):8