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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp, Turkey 2011 - 2016

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp, Turkey 2008 - 2011

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji, Turkey 2004 - 2008

Dissertations

Doctorate, Bakteriyel selüloz nanofiberler ile protein uzaklaştırılması, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp Anabilim Dalı (Disiplinlerarası), 2016

Research Areas

Chemistry, Natural Sciences

Academic Titles / Tasks

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2016 - Continues

Research Assistant, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp Anabilim Dalı (Disiplinlerarası), 2009 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Selective Amplification of Plasmonic Sensor Signal for Cortisol Detection Using Gold Nanoparticles**
Yılmaz G. E., SAYLAN İNCİ Y., GÖKTÜRK BAŞAL I., YILMAZ F., DENİZLİ A.
BIOSENSORS-BASEL, vol.12, no.7, 2022 (Journal Indexed in SCI)
- II. **Gold-Modified Molecularly Imprinted N-Methacryloyl-(l)-phenylalanine-containing Electrodes for Electrochemical Detection of Dopamine**
Abu Shama N., Asir S., Ozsoz M., GÖKTÜRK BAŞAL I., TÜRKMEN D., YILMAZ F., DENİZLİ A.
BIOENGINEERING-BASEL, vol.9, no.3, 2022 (Journal Indexed in SCI)
- III. **Development of Molecularly Imprinted Polymer-Based Optical Sensor for the Sensitive Penicillin G Detection in Milk**
Safran V., GÖKTÜRK BAŞAL I., Bakhshpour M., YILMAZ F., DENİZLİ A.
CHEMISTRYSELECT, vol.6, no.43, pp.11865-11875, 2021 (Journal Indexed in SCI)
- IV. **Selective dopamine detection by SPR sensor signal amplification using gold nanoparticles**
TÜRKMEN D., Bakhshpour M., GÖKTÜRK BAŞAL I., Asir S., YILMAZ F., DENİZLİ A.
NEW JOURNAL OF CHEMISTRY, vol.45, pp.18296-18306, 2021 (Journal Indexed in SCI)

- V. **S-citalopram imprinted monolithic columns for capillary electrochromatography enantioseparations**
Derazshamshir A., GÖKTÜRK BAŞAL I., YILMAZ F., DENİZLİ A.
ELECTROPHORESIS, 2021 (Journal Indexed in SCI)
- VI. **Sensitive and selective detection of amitrole based on molecularly imprinted nanosensor**
ÇAKIR O., Bakhshpour M., GÖKTÜRK BAŞAL I., YILMAZ F., BAYSAL Z.
JOURNAL OF MOLECULAR RECOGNITION, 2021 (Journal Indexed in SCI)
- VII. **Quartz Crystal Microbalance (QCM) Based Biosensor Functionalized by HER2/neu Antibody for Breast Cancer Cell Detection**
YILMAZ M., Bakhshpour M., GÖKTÜRK BAŞAL I., Piskin A. K., DENİZLİ A.
CHEMOSENSORS, vol.9, no.4, 2021 (Journal Indexed in SCI)
- VIII. **Selective recognition of nucleosides by boronate affinity organic-inorganic hybrid monolithic column**
Ektirici S., GÖKTÜRK BAŞAL I., YILMAZ F., DENİZLİ A.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1162, 2021 (Journal Indexed in SCI)
- IX. **Magnetic bacterial cellulose nanofibers for nucleoside recognition**
SAYLAN Y., GÖKTÜRK BAŞAL I., Pospiskova K., Safarik I., DENİZLİ A.
CELLULOSE, 2020 (Journal Indexed in SCI)
- X. **Electrochromatographic separation of hydrophobic amino acid enantiomers by molecularly imprinted capillary columns**
Sarkaya K., Asir S., GÖKTÜRK BAŞAL I., YILMAZ F., Yavuz H., DENİZLİ A.
PROCESS BIOCHEMISTRY, vol.92, pp.69-77, 2020 (Journal Indexed in SCI)
- XI. **Molecularly imprinted cryogel cartridges for the selective recognition of tyrosine**
Bakhshpour M., GÖKTÜRK BAŞAL I., BERELİ N., DENİZLİ A.
BIOTECHNOLOGY PROGRESS, 2020 (Journal Indexed in SCI)
- XII. **A dye-affinity cryogel membrane for malate dehydrogenase purification from *Saccharomyces cerevisiae***
Hamade K., Gokturk I., BERELİ N., TÜRKMEN D., Elkak A., DENİZLİ A.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.31, pp.38-52, 2020 (Journal Indexed in SCI)
- XIII. **Polymethacryloyl-L-Phenylalanine [PMAPA]-Based Monolithic Column for Capillary Electrochromatography**
Derazshamshir A., Asir S., GÖKTÜRK BAŞAL I., Ektirici S., YILMAZ F., DENİZLİ A.
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.57, no.8, pp.758-765, 2019 (Journal Indexed in SCI)
- XIV. **Rapid sensing of Cu⁺² in water and biological samples by sensitive molecularly imprinted based plasmonic biosensor**
SAFRAN V., Gokturk I., Derazshamshir A., YILMAZ F., SAĞLAM N., DENİZLİ A.
MICROCHEMICAL JOURNAL, vol.148, pp.141-150, 2019 (Journal Indexed in SCI)
- XV. **Phenol removal from wastewater by surface imprinted bacterial cellulose nanofibres**
Derazshamshir A., Gokturk I., Tamahkar E., YILMAZ F., SAĞLAM N., DENİZLİ A.
ENVIRONMENTAL TECHNOLOGY, 2019 (Journal Indexed in SCI)
- XVI. **Protein depletion with bacterial cellulose nanofibers**
Gokturk I., Tamahkar E., Yilmaz F., DENİZLİ A.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1099, pp.1-9, 2018 (Journal Indexed in SCI)
- XVII. **Poly(vinyl alcohol)/polyethyleneimine (PVA/PEI) blended monolithic cryogel columns for the depletion of haemoglobin from human blood**
Göktürk I., Derazshamshir A., Yılmaz F., DENİZLİ A.
Separation Science and Technology (Philadelphia), vol.51, no.11, pp.1787-1797, 2016 (Journal Indexed in SCI)
- XVIII. **Removal of iron by chelation with molecularly imprinted supermacroporous cryogel.**
ÇİMEN D., Göktürk I., YILMAZ F.
Artificial cells, nanomedicine, and biotechnology, vol.44, pp.1158-66, 2016 (Journal Indexed in SCI Expanded)

- XIX. **Catalase purification from rat liver with iron-chelated poly(hydroxyethyl methacrylate-N-methacryloyl-(L)-glutamic acid) cryogel discs**
Gokturk I., Percin I., DENİZLİ A.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.46, no.6, pp.602-609, 2016 (Journal Indexed in SCI)
- XX. **Synthesis of a specific monolithic column with artificial recognition sites for L-glutamic acid via cryo-crosslinking of imprinted nanoparticles**
GOKTURK I., ÜZEK R., UZUN L., DENİZLİ A.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.44, no.4, pp.1133-1140, 2016 (Journal Indexed in SCI)
- XXI. **Characterization and cellular interaction of fluorescent-labeled PHEMA nanoparticles**
Gokturk I., Karakoc V., ONUR M. A. , DENİZLİ A.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.41, no.2, pp.78-84, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **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)
- II. **Separation of histidine enantiomers by capillary electrochromatography with molecularly imprinted monolithic columns**
Sarkaya K., Asir S., GÖKTÜRK BAŞAL I., Ektirici S., YILMAZ F., Yavuz H., DENİZLİ A.
SEPARATION SCIENCE PLUS, vol.3, no.6, pp.235-245, 2020 (Journal Indexed in ESCI)
- III. **Separation of D,L-Ampicillin by ligand exchange-micellar electrokinetic chromatography**
Sarı D., DERAZSHAMSHIR A., AŞIR S., GÖKTÜRK BAŞAL I., YILMAZ F., DENİZLİ A.
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, vol.9, no.6, pp.4522-4533, 2019 (Journal Indexed in ESCI)

Books & Book Chapters

- I. **Utility of nanobiosensors in agriculture**
ÇALIŞIR M., GÖKTÜRK BAŞAL I., TÜRKMEN D., YILMAZ F., DENİZLİ A.
in: Bionanomaterials for Environmental and Agricultural Applications, Ravindra Pratap Singh, Kshitij RB Singh, Editor, Institute of Physics Publishing, Londrina, pp.4-31, 2021
- II. **Cryogels for protein purification and depletion**
GÖKTÜRK BAŞAL I., Bakhshpour M., YILMAZ F., KARTAL ERSOY F., BERELİ N., DENİZLİ A.
in: Cryogels and Monoliths, Bo Mattiasson, Adil Denizli, Editor, Hacettepe Üniversitesi, Ankara, pp.95-118, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **KAPILER ELEKTROKROMATOĞRAFI İÇİN POLİMETAKRİLOİL-LFENİLALANIN [PMAPA]-TABANLI MONOLİTİK KOLON**
DERAZSHAMSHIR A., AŞIR S., GÖKTÜRK BAŞAL I., EKTİRİCİ S., YILMAZ F., DENİZLİ A.
13.ULUSAL AFİNİTE TEKNİKLERİ KONGRESİ, Turkey, 4 - 06 September 2019
- II. **SÜPERMAKROĞÖZENEKLI KRIYOJELLER İLE KOLESTEROL UZAKLAŞTIRILMASI,**
GÖKTÜRK BAŞAL I., SAYLAN Y., ÖZSEVGİÇ M., YILMAZ F., YAVUZ ALAGÖZ H., DENİZLİ A.
13.ULUSAL AFİNİTE TEKNİKLERİ KONGRESİ, Turkey, 4 - 06 September 2019
- III. **Separation of D,L-ampicillin by Ligand Exchange-Micellar Electrokinetic Chromatography**
AŞIR S., GÖKTÜRK BAŞAL I., derazshamshir A., Sarı D., Ektirici S., TOPÇU A. A. , DENİZLİ A.

18. Uluslararası Katılımlı Kromatografi Kongresi, İstanbul, Turkey, 15 - 18 November 2018
- IV. **Bakteriyel Selüloz Nanofiberler ile Protein Uzaklaştırılması**
GÖKTÜRK BAŞAL I, TAMAHKAR IRMAK E, YILMAZ F., DENİZLİ A.
17. Kromatografi Kongresi, Turkey, 20 - 22 September 2017
- V. **Development of Molecularly Imprinted Surface Plasmon Resonance Sensor for Albumin Detection**
SAYLAN Y, GÖKTÜRK BAŞAL I, YILMAZ F., DENİZLİ A.
BIOMED 2017, 12 - 14 May 2017
- VI. **Poly vinyl alcohol polyethyleneimine PVA PEI blended monolithic cryogelcolumns for the depletion of haemoglobin from human blood**
PERÇİN DEMİRÇELİK I, GÖKTÜRK BAŞAL I, DENİZLİ A.
10. Ulusal Afinite Teknikleri Kongresi, Turkey, 26 May 2016
- VII. **BOYA LİGAND AFİNİTE KRİYOJELLER İLE SACCHAROMYCES CEREVISIAE DEN MALAT DEHİDROGENAZ ENZİMİNİN SAFLAŞTIRILMASI**
PERÇİN DEMİRÇELİK I, GÖKTÜRK BAŞAL I, DENİZLİ A.
10. Ulusal afinite teknikleri kongresi, Turkey, 26 May 2016
- VIII. **Determination of Bupivacaine on Quartz Crystal Microbalance Based Nanosensors**
TAN G., SAYLAN Y, GÖKTÜRK BAŞAL I, YILMAZ F., DENİZLİ A.
2. Uluslararası Biyosensör kongresi, İzmir, 10 - 12 June 2015
- IX. **Dondurarak Çapraz Bağlama ile Moleküler Baskılanmış Nanopartiküllerin Kriyo şekillendirilmesi**
GÖKTÜRK BAŞAL I, ÜZEK R., UZUN L., DENİZLİ A.
15. Ulusal kromatografi Kongresi, Uşak, Turkey, 8 - 10 April 2015

Supported Projects

SAYLAN İNCİ Y., GÖKTÜRK BAŞAL I., Project Supported by Higher Education Institutions, Moleküler Baskılanmış Manyetik Bakteriyel Selüloz Nanofiberler ile Nükleozid Saflaştırılması, 2018 - 2019

PERÇİN DEMİRÇELİK I., BAYDEMİR PEŞİNT G., GÖKTÜRK BAŞAL I., Project Supported by Higher Education Institutions, Katalaz Enzimine Afinite Gösteren Kriyojel Disklerin Hazırlanması, 2015 - 2015

Citations

Total Citations (WOS):55

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