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Education Information

Doctorate, Hacettepe University, Fen Bilimleri, Kimya Anabilim Dalı, Turkey 2011 - 2018

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2009 - 2011

Undergraduate, Hacettepe University, Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, Turkey 2002 - 2008

Foreign Languages

German, B2 Upper Intermediate

Dissertations

Doctorate, Vitamin Tayini İçin Yüzey Plazmon Rezonans (SPR) Temelli Nanosensörlerin Hazırlanması, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2018

Postgraduate, Sitokrom C Safaştırılması İçin Süpermakrogözenekli İmmobilize Metal Afinitite Kromatografi Adsorbentler, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2011

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry

Academic Titles / Tasks

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2008 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Controlled Release Simvastatine from Molecularly Imprinted Cryogel Membranes**
Faalnouri S., ÇİMEN D., VARGEL İ., DENİZLİ A., BERELİ N.
CHEMISTRYSELECT, no.36, 2024 (SCI-Expanded)
- Surface Plasmon Resonance Based Sensor for Amaranth Detection With Molecularly Imprinted**

Nanoparticles

Ozgur F. O., ÇİMEN D., DENİZLİ A., BERELİ N.

Photonic Sensors, vol.13, no.2, 2023 (SCI-Expanded)

- III. **Preparation of Concanavalin A Imprinted Surface Plasmon Resonance Based Biosensors**
Erdogan Y., ÇİMEN D., ONUR M. A., DENİZLİ A.
IEEE Sensors Journal, vol.23, no.11, pp.11566-11573, 2023 (SCI-Expanded)
- IV. **Development of Optical-Based Molecularly Imprinted Nanosensors for Adenosine Detection**
Kurt Z. T., ÇİMEN D., DENİZLİ A., BERELİ N.
ACS Omega, vol.8, no.21, pp.18839-18850, 2023 (SCI-Expanded)
- V. **Preparation of magnetic poly(ethylene glycol dimethacrylate-N-Methacryloyl-(L)-glutamic acid) particles for thrombin purification**
ÇİMEN D., BERELİ N., Günaydın S., DENİZLİ A.
Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, vol.1219, 2023 (SCI-Expanded)
- VI. **Advanced Plasmonic Nanosensors for Monitoring of Environmental Pollutants**
ÇİMEN D., BERELİ N., DENİZLİ A.
Current Analytical Chemistry, vol.19, no.1, pp.2-17, 2023 (SCI-Expanded)
- VII. **SPR Signal Enhancement With Silver Nanoparticle-Assisted Plasmonic Sensor for Selective Adenosine Detection**
GÖKTÜRK BAŞAL I., Bakhshpour M., ÇİMEN D., YILMAZ F., BERELİ N., DENİZLİ A.
IEEE SENSORS JOURNAL, vol.22, no.15, pp.14862-14869, 2022 (SCI-Expanded)
- VIII. **Molecular imprinted nanoparticle assisted surface plasmon resonance biosensors for detection of thrombin**
ÇİMEN D., BERELİ N., Gunaydin S., DENİZLİ A.
TALANTA, vol.246, 2022 (SCI-Expanded)
- IX. **Metal-chelated polyamide hollow fiber membranes for ovalbumin purification from egg white**
Ozbek M. A., ÇİMEN D., BERELİ N., DENİZLİ A.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1203, 2022 (SCI-Expanded)
- X. **Fab fragment immobilized immunoaffinity cryogels as a tool for human serum albumin purification: Characterization of Fab immobilized cryogels**
Huseynli S., ÇİMEN D., BERELİ N., DENİZLİ A.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1203, 2022 (SCI-Expanded)
- XI. **Patulin Imprinted Nanoparticles Decorated Surface Plasmon Resonance Chips for Patulin Detection**
ÇİMEN D., BERELİ N., DENİZLİ A.
PHOTONIC SENSORS, vol.12, no.2, pp.117-129, 2022 (SCI-Expanded)
- XII. **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 (SCI-Expanded)
- XIII. **Testosterone Imprinted poly(HEMA-MAA) Nanoparticles Based Surface Plasmon Resonance Sensor for Detection of Testosterone**
ÇİMEN D.
CHEMISTRYSELECT, vol.7, no.5, 2022 (SCI-Expanded)
- XIV. **Molecularly imprinted nanofilms for endotoxin detection using an surface plasmon resonance sensor**
ÇİMEN D., ASLIYÜCE ÇOBAN S., TANALP T. D., DENİZLİ A.
ANALYTICAL BIOCHEMISTRY, vol.632, 2021 (SCI-Expanded)
- XV. **Preparation of surface plasmon resonance-based nanosensor for curcumin detection**
Cikrik S., ÇİMEN D., BERELİ N., DENİZLİ A.
TURKISH JOURNAL OF CHEMISTRY, vol.46, no.1, pp.14-26, 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, vol.120, 2021 (SCI-Expanded)
- XVII. **Real-Time Detection of Fibrinogen via Imprinted Recognition Sites**
ÇİMEN D., ÜZEK R., Gunaydin S., DENİZLİ A.
CHEMISTRYSELECT, vol.6, no.35, pp.9435-9441, 2021 (SCI-Expanded)
- XVIII. **Injectable Cryogels in Biomedicine**
ÇİMEN D., Ozbek M. A., BERELİ N., Mattiasson B., DENİZLİ A.
GELS, vol.7, no.2, 2021 (SCI-Expanded)
- XIX. **Optical Sensor-Based Molecular Imprinted Poly(Hydroxyethyl Methacrylate-N-Methacryloyl-(L)-Histidine Methyl ester) Thin Films for Determination of Tartrazine in Fruit Juice**
BERELİ N., ÇİMEN D., DENİZLİ A.
IEEE SENSORS JOURNAL, vol.21, no.12, pp.13215-13222, 2021 (SCI-Expanded)
- XX. **Surface Plasmon Resonance Based on Molecularly Imprinted Polymeric Film for l-Phenylalanine Detection**
ÇİMEN D., BERELİ N., DENİZLİ A.
BIOSENSORS-BASEL, vol.11, no.1, 2021 (SCI-Expanded)
- XXI. **Detection of amoxicillin residues in egg extract with a molecularly imprinted polymer on gold microchip using surface plasmon resonance and quartz crystal microbalance methods**
BERELİ N., ÇİMEN D., Huseynli S., DENİZLİ A.
JOURNAL OF FOOD SCIENCE, vol.85, pp.4152-4160, 2020 (SCI-Expanded)
- XXII. **Development of Rapid, Sensitive, and Effective Plasmonic Nanosensor for the Detection of Vitamins in Infant Formula and Milk Samples**
ÇİMEN D., DENİZLİ A.
PHOTONIC SENSORS, vol.10, no.4, pp.316-332, 2020 (SCI-Expanded)
- XXIII. **Detection of cardiac troponin-I by optic biosensors with immobilized anti-cardiac troponin-I monoclonal antibody**
ÇİMEN D., BERELİ N., Gunaydin S., DENİZLİ A.
TALANTA, vol.219, 2020 (SCI-Expanded)
- XXIV. **Metal-chelated magnetic nanoparticles for protein C purification**
ÇİMEN D., BERELİ N., DENİZLİ A.
SEPARATION SCIENCE AND TECHNOLOGY, vol.55, no.13, pp.2259-2268, 2020 (SCI-Expanded)
- XXV. **Adenosine-imprinted magnetic core-shell polyvinylbutyral microbeads for quantification of adenosine in plasma**
Jalilzadeh M., ÇİMEN D., DENİZLİ A.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1147, 2020 (SCI-Expanded)
- XXVI. **Surface Plasmon Resonance Nanosensors for Detecting Amoxicillin in Milk Samples with Amoxicillin Imprinted Poly(hydroxyethyl methacrylate-N-methacryloyl-(L)- glutamic acid)**
Faalhour S., ÇİMEN D., BERELİ N., DENİZLİ A.
CHEMISTRYSELECT, vol.5, no.15, pp.4761-4769, 2020 (SCI-Expanded)
- XXVII. **Design and preparation of imprinted surface plasmon resonance (SPR) nanosensor for detection of Zn(II) ions**
Jalilzadeh M., ÇİMEN D., ÖZGÜR E., ESEN C., DENİZLİ A.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.56, no.9, pp.877-886, 2019 (SCI-Expanded)
- XXVIII. **Cholesterol removal from human plasma with biologically modified cryogels**
Uzunoglu G., ÇİMEN D., BERELİ N., Cetin K., DENİZLİ A.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.30, no.14, pp.1276-1290, 2019 (SCI-Expanded)
- XXIX. **Molecularly imprinted polymer based quartz crystal microbalance sensor for the clinical detection of insulin**

- KARTAL F., ÇİMEN D., BERELİ N., DENİZLİ A.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.97, pp.730-737, 2019
(SCI-Expanded)
- XXX. **Molecular Imprinted Based Quartz Crystal Microbalance Nanosensors for Mercury Detection**
Hüseyinli S., ÇİMEN D., BERELİ N., DENİZLİ A.
GLOBAL CHALLENGES, vol.3, no.3, 2019 (SCI-Expanded)
- XXXI. **A Novel On-Chip Method for Differential Extraction of Sperm in Forensic Cases**
Inci F., Ozen M. O., Saylan Y., Miansari M., Cimen D., Dhara R., Chinnasamy T., Yuksekkaya M., Filippini C., Kumar D.
K., et al.
ADVANCED SCIENCE, vol.5, no.9, 2018 (SCI-Expanded)
- XXXII. **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 (SCI-Expanded)
- XXXIII. **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 (SCI-Expanded)
- XXXIV. **Poly-(L)-histidine immobilized cryogels for lysozyme purification**
ÇİMEN D., Tuerkmen D., DENİZLİ A.
Adsorption Science and Technology, vol.34, pp.469-487, 2016 (SCI-Expanded)
- XXXV. **Poly-L-Histidine Attached Poly(glycidyl methacrylate) Cryogels for Heavy Metal Removal**
ÇİMEN D., TÜRKMEN D., DENİZLİ A.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.52, no.9, pp.724-731,
2015 (SCI-Expanded)
- XXXVI. **Dye affinity cryogels for plasmid DNA purification**
ÇİMEN D., YILMAZ F., Perçin I., TÜRKMEN D., DENİZLİ A.
Materials Science and Engineering C, vol.56, pp.318-324, 2015 (SCI-Expanded)
- XXXVII. **Enantioseparation of aromatic amino acids using CEC monolith with novel chiral selector, N-methacryloyl-L-histidine methyl ester**
Aydoğan C., Yilmaz F., ÇİMEN D., UZUN L., DENİZLİ A.
ELECTROPHORESIS, vol.34, no.13, pp.1908-1914, 2013 (SCI-Expanded)
- XXXVIII. **Immobilized metal affinity monolithic cryogels for cytochrome c purification**
ÇİMEN D., DENİZLİ A.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.93, pp.29-35, 2012 (SCI-Expanded)

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 (Peer-Reviewed Journal)
- II. **Oral Chelation Therapy for Cadmium Poisoning with Cd(II)- MAC Imprinted PHEMAC Nanoparticles**
Jalilzadeh M., ÇİMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.
Hacettepe Jour, no.46, pp.505-514, 2018 (Peer-Reviewed Journal)
- III. **Molecularly imprinted cryogel columns for Concanavalin A purification from jack bean extract**
ÇİMEN D., BERELİ N., Andac M., DENİZLİ A.
SEPARATION SCIENCE PLUS, vol.1, no.6, pp.454-463, 2018 (ESCI)
- IV. **Bovine Serum Albumin Adsorption by Dye Derived Poly(hydroxyethyl methacrylate) [PHEMA] Membranes**
ÇİMEN D., YILMAZ F.

Hacettepe J. Biol. & Chem, vol.43, no.3, pp.213-223, 2015 (Peer-Reviewed Journal)

V. Study on an Hydrophilic Interaction Electrochromatography Method for Separation of Sulfonamide Antibiotics

AYDOĞAN C., YILMAZ F., ÇİMEN D., ANDAÇ ÖZDİL A. M., SHAIKH H., DENİZLİ A.

HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, vol.42, pp.443-450, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **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
- II. **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
- III. **Molecularly Imprinted Nanomaterials: Applications in Biosensors and Biodiagnostics**
YILMAZ E., ÖZGÜR E., ÇİMEN D., DENİZLİ A.
in: Affinity Sensors, , Editor, Hacettepe University Press, pp.1-26, 2019
- IV. **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
- V. **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
- VI. **SENSORS FOR THE QUALITY DETECTION OF BEVERAGES**
BERELİ N., ÇİMEN D., TÜRKMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.
in: AFFINITY SENSORS, Adil Denizli, Editor, Kukla Kirtasiye Bilgisayar ve Malzeme Tic. Ltd. Şti, Beytepe, Ankara, Ankara, pp.203-225, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Lizozim Safla stırılması için Poli L Histidin Kriyojeller**
ÇİMEN D., TÜRKMEN D., DENİZLİ A.
Kromatografi 2016, Turkey, 30 August - 02 September 2016

Supported Projects

ÇİMEN D., Project Supported by Higher Education Institutions, Gıdalardan Patulin Tayinine Yönelik Sensörlerin Hazırlanması, 2019 - 2020

DENİZLİ A., BERELİ N., ÇİMEN D., Project Supported by Higher Education Institutions, İçeceklerde Bulunan Gıda Boyar Maddelerin Tayinine Yönelik Sensörlerin Hazırlanması, 2018 - 2019

ÇİMEN D., DENİZLİ A., BERELİ N., Project Supported by Higher Education Institutions, Hayvansal Gıdalarda Testosteron Tayinine Yönelik Yüzey Plazmon Rezonans (SPR) Biosensörlerin Hazırlanması, 2018 - 2019

BERELİ N., DENİZLİ A., ÇİMEN D., Project Supported by Higher Education Institutions, RİBOFLAVİN VİTAMİN B2 TAYİNİ İÇİN YÜZEY PLAZMON REZONANS SPR TEMELLİ NANOSENSÖRLERİN HAZIRLANMASI, 2015 - 2017

BERELİ N., YILMAZ E., KARTAL F., ÇİMEN D., Project Supported by Higher Education Institutions, İnsülin Tayinine Yönelik Kuartz Kristal Mikrobals (QCM) Biyosensörlerin Hazırlanması, 2015 - 2016

ÇİMEN D., Project Supported by Higher Education Institutions, PROTEİN C SAFLAŞTIRILMASI İÇİN MANYETİK NANOPARTİKÜLLER, 2015 - 2015

BERELİ N., DENİZLİ A., ÇİMEN D., Project Supported by Higher Education Institutions, PROTEİN C SAFLAŞTIRILMASI İÇİN MANYETİK NANOPARTİKÜLLER, 2015 - 2015

Metrics

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