

Res. Asst. PhD YEŞEREN SAYLAN

Personal Information

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Education Information

Doctorate, Hacettepe Üniversitesi, Fen Bilimleri, Kimya, Turkey 2012 - 2017

Postgraduate, Hacettepe Üniversitesi, Fen Bilimleri, Kimya, Turkey 2009 - 2012

Undergraduate, Hacettepe Üniversitesi, Fen Fakültesi, Kimya, Turkey 2003 - 2008

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Preparation of hemoglobin imprinted surface plasmon resonance biosensors, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, 2017

Postgraduate, Boronat afinite kromatografisi için monolitik HPLC kolonları, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2012

Research Areas

Chemistry, Biochemistry, Protein Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2020 - Continues

Research Assistant PhD, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2017 - 2020

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2010 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Recent Advances in Microneedle-Based Sensors for Sampling, Diagnosis and Monitoring of Chronic Diseases**
Erdem O., Es I., Akceoglu G. A. , SAYLAN Y., Inci F.
BIOSENSORS-BASEL, vol.11, no.9, 2021 (Journal Indexed in SCI)
- II. **A Snapshot of Microfluidics in Point-of-Care Diagnostics: Multifaceted Integrity with Materials and Sensors**
Akceoglu G. A. , SAYLAN Y., Inci F.
ADVANCED MATERIALS TECHNOLOGIES, 2021 (Journal Indexed in SCI)
- III. **Designing composite cryogel carriers for tyrosine adsorption**

- Ozturk G., SAYLAN Y., DENİZLİ A.
SEPARATION AND PURIFICATION TECHNOLOGY, vol.254, 2021 (Journal Indexed in SCI)
- IV. **Comparison of molecularly imprinted plasmonic nanosensor performances for bacteriophage detection**
Erdem O., CİHANGİR N., SAYLAN Y., DENİZLİ A.
NEW JOURNAL OF CHEMISTRY, vol.44, no.41, pp.17654-17663, 2020 (Journal Indexed in SCI)
- V. **Magnetic bacterial cellulose nanofibers for nucleoside recognition**
SAYLAN Y., GÖKTÜRK BAŞAL I., Pospiskova K., Safarik I., DENİZLİ A.
CELLULOSE, 2020 (Journal Indexed in SCI)
- VI. **Molecularly imprinted polymer integrated plasmonic nanosensor for cocaine detection**
ÖZGÜR E., SAYLAN Y., BERELİ N., TÜRKMEN D., DENİZLİ A.
Journal of Biomaterials Science, Polymer Edition, 2020 (Journal Indexed in SCI)
- VII. **Advances in Molecularly Imprinted Systems: Materials, Characterization Methods and Analytical Applications**
SAYLAN Y., DENİZLİ A.
CURRENT ANALYTICAL CHEMISTRY, vol.16, no.3, pp.196-207, 2020 (Journal Indexed in SCI)
- VIII. **Molecularly Imprinted Polymer-Based Microfluidic Systems for Point-of-Care Applications**
SAYLAN Y., DENİZLİ A.
MICROMACHINES, vol.10, no.11, 2019 (Journal Indexed in SCI)
- IX. **Detecting Fingerprints of Waterborne Bacteria on a Sensor**
SAYLAN Y., Erdem O., CİHANGİR N., DENİZLİ A.
CHEMOSENSORS, vol.7, no.3, 2019 (Journal Indexed in SCI)
- X. **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)
- XI. **Molecularly imprinted nanoparticles based plasmonic sensors for real-time Enterococcus faecalis detection**
Erdem O., SAYLAN Y., CİHANGİR N., DENİZLİ A.
BIOSENSORS & BIOELECTRONICS, vol.126, pp.608-614, 2019 (Journal Indexed in SCI)
- XII. **Introduction to Nanoscience, Nanomaterials, Nanocomposite, Nanopolymer, and Engineering Smart Materials**
SAYLAN Y., Yavuz H., ÜLGER C., DENİZLİ A., SAĞLAM N.
MICROBIAL NANOBIONICS: VOL 2, BASIC RESEARCH AND APPLICATIONS, pp.1-12, 2019 (Journal Indexed in SCI)
- XIII. **Molecular Fingerprints of Hemoglobin on a Nanofilm Chip**
SAYLAN Y., DENİZLİ A.
SENSORS, vol.18, no.9, 2018 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **Synthesis of hydrophobic nanoparticles for real-time lysozyme detection using surface plasmon resonance sensor**
SAYLAN Y., Yilmaz F., Derazshamshir A., Yilmaz E., DENİZLİ A.
JOURNAL OF MOLECULAR RECOGNITION, vol.30, no.9, 2017 (Journal Indexed in SCI)
- XVI. **Molecular Imprinting of Macromolecules for Sensor Applications**
SAYLAN Y., Yilmaz F., ÖZGÜR E., DERAZSHAMSHIR A., Yavuz H., DENİZLİ A.
SENSORS, vol.17, no.4, 2017 (Journal Indexed in SCI)
- XVII. **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)

- XVIII. **Recognition of lysozyme using surface imprinted bacterial cellulose nanofibers**
 SAYLAN Y., Tamahkar E., DENİZLİ A.
 JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.28, no.16, pp.1950-1965, 2017 (Journal Indexed in SCI)
- XIX. **Surface plasmon resonance sensors for real-time detection of cyclic citrullinated peptide antibodies**
 DİBEKKAYA H., SAYLAN Y., Yılmaz F., DERAZSHAMSHIR A., DENİZLİ A.
 JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.53, no.9, pp.585-594, 2016 (Journal Indexed in SCI)
- XX. **Alanine Functionalized Magnetic Nanoparticles for Reversible Amyloglucosidase Immobilization**
 SAYLAN Y., UZUN L., DENİZLİ A.
 INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.54, no.1, pp.454-461, 2015 (Journal Indexed in SCI)
- XXI. **Surface imprinting approach for preparing specific adsorbent for IgG separation**
 SAYLAN Y., ÜZEK R., UZUN L., DENİZLİ A.
 JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.25, no.9, pp.881-894, 2014 (Journal Indexed in SCI)
- XXII. **Monolithic Boronate Affinity Columns for IgG Separation**
 SAYLAN Y., BERELİ N., UZUN L., DENİZLİ A.
 SEPARATION SCIENCE AND TECHNOLOGY, vol.49, no.10, pp.1555-1565, 2014 (Journal Indexed in SCI)
- XXIII. **Hydrophobic microbeads as an alternative pseudo-affinity adsorbent for recombinant human interferon-alpha via hydrophobic interactions**
 SAYLAN Y., Sari M. M., Ozkara S., UZUN L., DENİZLİ A.
 MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.32, no.4, pp.937-944, 2012 (Journal Indexed in SCI)
- XXIV. **L-Histidine imprinted supermacroporous cryogels for protein recognition**
 BERELİ N., SAYLAN Y., UZUN L., Say R., DENİZLİ A.
 SEPARATION AND PURIFICATION TECHNOLOGY, vol.82, pp.28-35, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Advances in Biomimetic Systems for Molecular Recognition and Biosensing**
 SAYLAN Y., Erdem O., Inci F., DENİZLİ A.
 BIOMIMETICS, vol.5, no.2, 2020 (Journal Indexed in ESCI)
- II. **An Alternative Medical Diagnosis Method: Biosensors for Virus Detection**
 SAYLAN Y., Erdem O., ÜNAL S., DENİZLİ A.
 BIOSENSORS-BASEL, vol.9, no.2, 2019 (Journal Indexed in ESCI)
- III. **Supermacroporous Composite Cryogels in Biomedical Applications**
 SAYLAN Y., DENİZLİ A.
 GELS, vol.5, no.2, 2019 (Journal Indexed in ESCI)
- IV. **Molecularly Imprinted Polymers for Removal of Metal Ions: An Alternative Treatment Method**
 ERDEM Ö., SAYLAN Y., ANDAÇ ÖZDİL A. M., DENİZLİ A.
 biomimetics, 2018 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **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
- II. **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

III. Surface plasmon resonance sensors for medical diagnosis

SAYLAN Y., YILMAZ F., ÖZGÜR E., DERAZSHAMSHIR A., BERELİ N., YAVUZ ALAGÖZ H., DENİZLİ A.

in: Nanotechnology Characterization Tools for Biosensing and Medical Diagnosis, Kumar, C.S.S.R., Editor, Springer Berlin Heidelberg, pp.425-458, 2018

IV. 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. Construction of hydrophobic nanoparticles based surface plasmon resonance biosensor for lysozyme detection

SAYLAN Y., YILMAZ F., Derazshamshir A., DENİZLİ A.

253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes, San-Francisco, Costa Rica, 2 - 06 April 2017, vol.253

II. Molecularly Imprinted Plasmonic Biosensors for Hemoglobin Detection

SAYLAN Y., DENİZLİ A.

15th IEEE Sensors Conference, Florida, United States Of America, 30 October - 02 November 2016

Supported Projects

ÇİHANGİR N., Erdem Ö., SAYLAN Y., Project Supported by Higher Education Institutions, Sularda Fekal Kirlilik Tayinine Yönelik Biyosensör Geliştirilmesi, 2019 - 2019

SAYLAN Y., ÇİHANGİR N., Erdem Ö., Project Supported by Higher Education Institutions, YüzeY Plazmon Rezonans Sensör Uygulamaları için Bakteri YüzeY Proteini Basklanmış Nanopartiküllerin Hazırlanması, 2018 - 2019

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

ÇİHANGİR N., ERDEM Ö., SAYLAN Y., Project Supported by Higher Education Institutions, Sularda Fekal Kirlilik Tayinine Yönelik Sensör Geliştirilmesi, 2017 - 2018

SAYLAN Y., DENİZLİ A., Project Supported by Higher Education Institutions, Protein Tayini için Moleküler Basklanmış YüzeY Plazmon Rezonans Nanosensörleri Hazırlanması, 2017 - 2017

DENİZLİ A., SAYLAN Y., Project Supported by Higher Education Institutions, Lizozim Tayini için Hidrofobik Temelli YüzeY Plazmon Rezonans Biyosensörlerin Hazırlanması, 2017 - 2017

DENİZLİ A., SAYLAN Y., Project Supported by Higher Education Institutions, Hemogloblin Tayini için Moleküler Basklanmış Plazmonik Biyosensörler, 2016 - 2017

SAYLAN Y., Project Supported by Higher Education Institutions, Hasta başında teşhis için plazmonik temelli mikroakışkan biyosensörler, 2015 - 2016

SAYLAN Y., Project Supported by Higher Education Institutions, Romatoid Artrit Hastalığı Teşhisi için YüzeY Plazmon Rezonans Temelli Biyosensörlerin Hazırlanması, 2015 - 2015

Citations

Total Citations (WOS):572

h-index (WOS):14