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Publons / Web Of Science ResearcherID: L-8664-2017

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Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Turkey 2014 - 2020

Dissertations

Doctorate, Mikroakışkan sistemler yardımıyla bakteri tayini için analitik yöntemler geliştirilmesi, Gazi University, Sağlık Bilimleri Enstitüsü, 2020

Postgraduate, Toplam protein tayininde nanopartikül tabanlı yeni analiz sistemlerinin geliştirilmesi, Gazi University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), 2014

Research Areas

Analytical Chemistry

Academic Titles / Tasks

Research Assistant, Gazi University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2011 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Nanoparticle-assisted pyrrolidonyl arylamidase assay for a culture-free Group A Streptococcus pyogenes detection with image analysis**
ERYILMAZ M., TAMER U., BOYACI İ. H.
TALANTA, vol.212, 2020 (SCI-Expanded)
- II. **SERS-based rapid assay for sensitive detection of Group A Streptococcus by evaluation of the swab sampling technique**
ERYILMAZ M., SOYKUT E. A., ÇETİN D., BOYACI İ. H., Suludere Z., TAMER U.
ANALYST, vol.144, no.11, pp.3573-3580, 2019 (SCI-Expanded)
- III. **SERS-based ultrafast and sensitive detection of luteinizing hormone in human serum using a passive microchip**

- SAĞLAM N., SAĞLAM N., YILDIRIM E., ERYILMAZ M., SAĞLAM N., SAĞLAM N., TAMER U.
SENSORS AND ACTUATORS B-CHEMICAL, vol.269, pp.314-321, 2018 (SCI-Expanded)
- IV. **Paper based lateral flow immunoassay for the enumeration of Escherichia coli in urine**
Gumustas A., ÇAĞLAYAN M. G., ERYILMAZ M., Suludere Z., ACAR SOYKUT E., USLU B., BOYACI İ. H., TAMER U.
ANALYTICAL METHODS, vol.10, no.10, pp.1213-1218, 2018 (SCI-Expanded)
- V. **Quantification and spatial distribution of salicylic acid in film tablets using FT-Raman mapping with multivariate curve resolution**
Eksi-Kocak H., İLBASMIŞ TAMER S., Yilmaz S., ERYILMAZ M., Boyaci I. H., TAMER U.
ASIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.13, no.2, pp.155-162, 2018 (SCI-Expanded)
- VI. **Rapid quantification of total protein with surface-enhanced Raman spectroscopy using o-phthalaldehyde**
ERYILMAZ M., Zengin A., BOYACI İ. H., TAMER U.
JOURNAL OF RAMAN SPECTROSCOPY, vol.48, no.5, pp.653-658, 2017 (SCI-Expanded)
- VII. **Surface-enhanced Raman spectroscopy combined with gold nanorods for the simultaneous quantification of nitramine energetic materials**
Güven B., ERYILMAZ M., Uzer A., BOYACI İ. H., TAMER U., Apak R.
RSC ADVANCES, vol.7, no.59, pp.37039-37047, 2017 (SCI-Expanded)
- VIII. **Surface-enhanced Raman probe for rapid nanoextraction and detection of erythropoietin in urine**
SAĞLAM N., ÇAĞLAYAN M. G., ERYILMAZ M., SAĞLAM N., SAĞLAM N., SAĞLAM N., SAĞLAM N.
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.408, no.29, pp.8447-8456, 2016 (SCI-Expanded)
- IX. **A novel glucose biosensor platform based on Ag@AuNPs modified graphene oxide nanocomposite and SERS application**
Gupta V. K., Atar N., Yola M. L., Eryilmaz M., Torul H., Tamer U., Boyacı İ. H., Üstündağ Z.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.406, pp.231-237, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluation of Resistance Determinants and Clonal Relationship of Extended Spectrum Beta Lactamase Positive Gram Negative Bacterial Strains by PCR and Raman Spectrophotometry**
TARHAN G., Demir T., TAMER U., ERYILMAZ M., DADALI M.
Advances in Biotechnology & Microbiology, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **SERS Sensor Applications 2 in Environmental Analysis 3 and Biotechnology**
TAMER U., TORUL H., DOĞAN Ü., ERYILMAZ M., Gümüştaş A., BOYACI İ. H., ÖZKAN S., USLU B.
in: Nanotechnology 36 Applications in Health and 37 Environmental Sciences, Necdet Sağlam, Editor, Springer, pp.197-236, 2021
- II. **SERS Sensor Applications in Environmental Analysis and Biotechnology**
TAMER U., TORUL H., DOĞAN Ü., ERYILMAZ M., GÜMÜŞTAŞ A., BOYACI İ. H., ÖZKAN S. A., USLU B.
in: Nanotechnology Applications in Health and Environmental Sciences, Necdet Sağlam, Feza Korkusuz, Ram Prasad, Editor, Springer, pp.197-236, 2021
- III. **Lab on a chip: A versatile integration with spectroscopic techniques**
ERYILMAZ M., YILDIRIM E., TAMER U.
in: Handbook on Miniaturization in Analytical Chemistry, Chaudhery Mustansar Hussain, Editor, Elsevier, pp.139-152, 2020

- I. **QUANTITATIVE PYRROLIDONYL ARYLAMIDASE ASSAY FOR GROUP A STREPTOCOCCUS PYOGENES DETECTION WITH IMAGE ANALYSIS**
ERYILMAZ M., BOYACI İ. H., TAMER U.
ISOPS 13, Ankara, Turkey, 22 June 2021
- II. **Mikroakışkan sistemlerde immunolipozom destekli patojen bakteri tayini**
ERYILMAZ M., İLBASMIŞ TAMER S., tayyarcan e. k., EKŞİ KOÇAK H., YILDIRIM E., BOYACI İ. H., ÇETİN D., SULUDERE Z., TAMER U.
XVI. Ulusal Spektroskopi Kongresi, Turkey, 7 - 08 November 2019
- III. **An insight into the detection of Group A Streptococcus pyogenes with SERS-based assays**
ERYILMAZ M., Acar E., ÇETİN D., BOYACI İ. H., SULUDERE Z., TAMER U.
Euroanalysis XX Conference, 1 - 05 September 2019
- IV. **SURFACE-ENHANCED RAMAN SPECTROSCOPY BASED DETECTION STRATEGIES FOR GROUP A STREPTOCOCCUS PYOGENES**
ERYILMAZ M., ACAR SOYKUT E., ÇETİN D., SULUDERE Z., BOYACI İ. H., TAMER U.
ISOPS-12, Ankara, Turkey, 26 - 29 June 2018
- V. **Simultaneous Quantification of Nitramine Explosives by Using Surface-enhanced Raman Spectroscopy**
ERYILMAZ M., GÜVEN B., ARDA A., BOYACI İ. H., TAMER U., APAK M. R.
PITTCOON 2018, 26 February - 01 March 2018
- VI. **The enumeration of E.coli and Beta-Hemolytic Streptococcus by paper-based membrane.**
TAMER U., Gümüştaş A., ÇETİN D., Acar E., ÇAĞLAYAN M. G., BOYACI İ. H., ERYILMAZ M., SULUDERE Z.
Pittcon 2017 Conference Expo., Chicago, United States Of America, 5 - 09 March 2017
- VII. **The Enumeration of E. coli and Beta-Hemolytic Streptococcus by Paper-Based Membrane**
TAMER U., Gümüştaş A., ÇETİN D., ACAR SOYKUT E., ÇAĞLAYAN M. G., BOYACI İ. H., ERYILMAZ M., SULUDERE Z.
PITTCOON Conference and Expo 2017, 5 - 09 March 2017
- VIII. **Surface Enhanced Raman Scattering Based Immunoassay Versus Western Blotting**
TAMER U., SELBES Y., ÇAĞLAYAN M. G., ERYILMAZ M., SAĞLAM N., BOYACI İ. H.
AACD 2016, 29 September - 02 October 2016
- IX. **SERS based rapid detection strategies of Group A Beta Hemolytic Streptococcus**
ERYILMAZ M., ACAR KORKUT E., ÇETİN D., SULUDERE Z., BOYACI İ. H., TAMER U.
AACD 2016 International Conference: 10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016
- X. **Paper membrane based SERS platform for rapid bacteria enumeration**
TAMER U., GÜMÜŞTAŞ A., BOZKURT A. G., ÇETİN D., ACAR E., BOYACI İ. H., ERYILMAZ M., SULUDERE Z.
Pittcon Conference & Expo. 2016, United States Of America, 6 - 10 March 2016
- XI. **Surface Enhanced Raman Spectroscopy Based Total Protein Assay**
ERYILMAZ M., ZENGİN A., TAMER U.
PITTCOON 2016, 6 - 10 March 2016
- XII. **Surface Enhanced Raman Scattering Based Detection of Group A Beta Hemolytic Streptococcus**
ERYILMAZ M., acar e., ÇETİN D., SULUDERE Z., BOYACI İ. H., TAMER U.
1st International Gazi Pharma Symposium Series (GPSS-2015), Antalya, Turkey, 12 - 15 November 2015
- XIII. **SERS Based Aptasensor for Sub Femtomolar Level Toxin Detection**
TAMER U., ZENGİN A., BOYACI İ. H., ERYILMAZ M., ÇAYKARA T.
2015 PITTCOON CONFERENCE AND EXPO, 8 - 12 March 2015
- XIV. **The modification of paper based microfluidic Surface Enhanced Raman Spectroscopy platform**
TAMER U., TORUL H., ERYILMAZ M., ÇİFTÇİ H., ÇETİN D., SULUDERE Z., BOYACI İ. H., ERTAŞ N.
9th Aegean Analytical Chemistry Days, Chios, Greece, 29 September - 03 October 2014
- XV. **Rapid SERS detection of bacteria with well oriented antibody bound nanoparticle**
DOĞAN Ü., ERYILMAZ M., ÇETİN D., SULUDERE Z., BOYACI İ. H., TAMER U.
XXIV. International Conference on Raman Spectroscopy, ICORS, Jena, Germany, 10 - 15 August 2014
- XVI. **Construction of ferrocene labelled gold nanorod particles for electrochemical applications**

ERYILMAZ M., TAMER U., AYDOĞAN N.

0th International symposium on pharmaceutical sciences, 26 - 29 June 2012

XVII. construction of ferrocene labelled gold nanorod particles for electrochemical applications

ERYILMAZ M., AYDOĞAN N., TAMER U.

10th International symposium on pharmaceutical sciences, 26 - 29 June 2012

Supported Projects

Eryılmaz M., İlbasmış Tamer S., Tamer U., Çetin D., Suludere Z., Yıldırım E., Boyacı İ. H., Tayyarcı E. K., Project Supported by Higher Education Institutions, Patojen Bakteri Teşhisine Yönelik Yeni Mikroakışkan Test Sistemlerinin Geliştirilmesi, 2019 - 2020

Eryılmaz M., Tamer U., TUBITAK Project, Toplam protein tayininde nanopartikül tabanlı yeni analiz sistemlerinin geliştirilmesi, 2014 - 2016

Patent

ERYILMAZ M., TAMER U., Toplam protein tayininde yüzeyde güçlendirilmiş raman saçılması tekniğine dayanan yeni yöntem., Patent, CHAPTER C Chemistry; Metallurgy, 2018

Metrics

Publication: 30

Citation (WoS): 198

Citation (Scopus): 249

H-Index (WoS): 7

H-Index (Scopus): 7