Doç. Dr. DİLEK ESKİKÖY BAYRAKTEPE

Kişisel Bilgiler

İş Telefonu: +90 312 212 6720
E-posta: deskikoy@ankara.edu.tr
Diğer E-posta: dilekeskikoy@gmail.com
Web: https://avesis.ankara.edu.tr/deskikoy

Uluslararası Araştırmacı ID'leri
ORCID: 0000-0001-8592-6766
ScopusID: 56809447000

Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 2009 - 2017

Araştırma Alanları

Kimya, Analitik Kimya, Elektroanalitik Yöntemler, Gıda Analizleri, Kemometri, Sensörler, Temel Bilimler

Akademik Unvanlar / Görevler

Doç. Dr., Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2021 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Electrochemical detection of bicalutamide in sepiolite clay sensing platform: Its possible electrooxidation mechanism, determination, and DNA interaction**
ESKİKÖY BAYRAKTEPE D., POLAT K., Yıldız C., YAZAN Z.
ELECTROANALYSIS, 2024 (SCI-Expanded)

II. **A new screen-printed carbon sensor decorated gold nanoparticles/kaolinite mineral: electrochemical analysis of propyphenazone and the investigation of ds-DNA interaction**
Yıldız C., ESKİKÖY BAYRAKTEPE D., YAZAN Z.
MONATSHEFTE FUR CHEMIE, cilt.155, sa.1, ss.47-55, 2024 (SCI-Expanded)

III. **Voltammetric studies on the interaction of ds-DNA with anti-cancer agents imatinib and erlotinib - Comparison of Au and Pt nanoparticle effects to drug-DNA complex formation**
Eskiköy Bayraktepe D., Yıldız C., Yazan Z.
JOURNAL OF MOLECULAR LIQUIDS, cilt.388, 2023 (SCI-Expanded)

IV. **Electrochemical sensor for simultaneous determination of paracetamol, propyphenazone, and caffeine-Electrodes based on poly(L-cystine)/gold nanoparticles plating on pencil graphite**
Urçuk A., Yıldız C., Eskiköy Bayraktepe D., Yazan Z.
MICROCHEMICAL JOURNAL, cilt.193, 2023 (SCI-Expanded)

V. **The development of electrochemical DNA biosensor based on poly-L-methionine and bimetallic AuPt nanoparticles coating: Picomolar detection of Imatinib and Erlotinib**
Eskiköy Bayraktepe D., Yıldız C., Yazan Z.

TALANTA, cilt.257, 2023 (SCI-Expanded)

VI. **Electrochemical fabrication of poly(L-alanine)-gold nanoparticle nanocomposite-modified electrode: application for determination and mechanism of antipsychotic drug olanzapine**
Tuezuen U. N., Yildiz C., ESKİKÖY BAYRAKTEPE D., POLAT K., YAZAN Z.
MONATSHEFTE FUR CHEMIE, cilt.154, ss.95-104, 2023 (SCI-Expanded)

VII. **Highly sensitive and disposable electrochemical nano sensor for simultaneous analysis of caffeic acid and uric acid based on halloysite nanotubes and magnetite nanoparticles**
Urcuk A., Yildiz C., ESKİKÖY BAYRAKTEPE D., YAZAN Z.
MICROCHEMICAL JOURNAL, cilt.181, 2022 (SCI-Expanded)

VIII. **Preparation of Multiwalled Carbon Nanotubes: Electrochemically Treated Pencil Graphite Electrodes for Nanomolar Detection of L-Tryptophan in Complex Samples**
Yildiz C., ESKİKÖY BAYRAKTEPE D., YAZAN Z.
CHEMISTRYSELECT, cilt.7, sa.40, 2022 (SCI-Expanded)

IX. **Square wave voltammetric pKa determination of aspirin using multi-way data analysis models**
YAZAN Z., ESKİKÖY BAYRAKTEPE D., DİNÇ E.
CHEMICAL PAPERS, cilt.76, sa.9, ss.5389-5397, 2022 (SCI-Expanded)

X. **Kinetic and thermodynamic studies on the interaction between calf thymus DNA and food additive vanillin - electrochemical methods**
Urcuk A., Bayraktepe D., Yildiz C., Yazan Z.
JOURNAL OF MOLECULAR LIQUIDS, cilt.360, 2022 (SCI-Expanded)

XI. **Bismuth nanoparticles decorated on Na-montmorillonite-multiwall carbon nanotube for simultaneous determination of heavy metal ions- electrochemical methods**
Yildiz C., ESKİKÖY BAYRAKTEPE D., YAZAN Z., ÖNAL M.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, cilt.910, 2022 (SCI-Expanded)

XII. **Two-layered Au@Ag Bimetallic Nanocomposites-poly (L-Met) Platform for Highly Sensitive Chlorpheniramine Maleate Detection**
Bayraktepe D., YAZAN Z.
Electroanalysis, cilt.34, sa.3, ss.445-454, 2022 (SCI-Expanded)

XIII. **Preparation and characterization of a pencil graphite electrode modified with gold nanoparticles decorated poly (L-methionine) and its use in the simultaneous sensitive electrochemical analysis of ascorbic acid, acetaminophen, chlorpheniramine maleate, and caffeine**
Bayraktepe D., İNAL E. K., YAZAN Z.
Microchemical Journal, cilt.171, 2021 (SCI-Expanded)

XIV. **Highly sensitive direct simultaneous determination of zinc(II), cadmium(II), lead(II), and copper(II) based on in-situ-bismuth and mercury thin-film plated screen-printed carbon electrode**
Yildiz C., Bayraktepe D., YAZAN Z.
Monatshefte fur Chemie, cilt.152, sa.12, ss.1527-1537, 2021 (SCI-Expanded)

XV. **Investigation of electrochemical oxidation mechanism, rapid and low-level determination for whitening cosmetic: arbutin in aqueous solution by nano sepiolite clay**
Aydar Barutcu S., Eskikoy Bayraktepe D., YAZAN Z., POLAT K., Filik H.
Chemical Papers, cilt.75, sa.7, ss.3483-3491, 2021 (SCI-Expanded)

XVI. **A voltammetric study on drug-DNA interactions: Kinetic and thermodynamic aspects of the relations between the anticancer agent dasatinib and ds-DNA using a pencil lead graphite electrode**
Bayraktepe D.
Microchemical Journal, cilt.157, 2020 (SCI-Expanded)

XVII. **Four-way parallel factor analysis of voltammetric four-way dataset for monitoring the etoposide-DNA interaction with its binding constant determination**
YAZAN Z., Bayraktepe D., DİNÇ E.
Bioelectrochemistry, cilt.134, 2020 (SCI-Expanded)

XVIII. **Application of Single-use Electrode Based on Nano-clay and MWCNT for Simultaneous Determination of Acetaminophen, Ascorbic Acid and Acetylsalicylic Acid in Pharmaceutical Dosage**

Bayraktepe D., YAZAN Z.
Electroanalysis, cilt.32, sa.6, ss.1263-1272, 2020 (SCI-Expanded)

XIX. **Electrochemical low-level detection of l-tryptophan in human urine samples: use of pencil graphite leads as electrodes for a fast and cost-effective voltammetric method**
Yildiz C., Bayraktepe D., YAZAN Z.
Monatshefte fur Chemie, cilt.151, sa.6, ss.871-879, 2020 (SCI-Expanded)

XX. **Low-level electrochemical analysis of ketoconazole by sepiolite nanoparticles modified sensor in shampoo sample**
Aydar S., Bayraktepe D., Filik H., YAZAN Z.
Acta Chimica Slovenica, cilt.67, sa.3, ss.729-738, 2020 (SCI-Expanded)

XXI. **Sensitive and cost effective disposable composite electrode based on graphite, nano-smectite and multiwall carbon nanotubes for the simultaneous trace level detection of ascorbic acid and acetylsalicylic acid in pharmaceuticals**
Bayraktepe D., YAZAN Z., ÖNAL M.
Talanta, cilt.203, ss.131-139, 2019 (SCI-Expanded)

XXII. **Electro-oxidation mechanism of meloxicam and electrochemical sensing platform based on graphene nanoparticles for its sensing pharmaceutical sample**
Eroglu M. E., Bayraktepe D., POLAT K., YAZAN Z.
Current Pharmaceutical Analysis, cilt.15, sa.4, ss.346-354, 2019 (SCI-Expanded)

XXIII. **A nano-sepiolite clay electrochemical sensor for the rapid electro–catalytic detection of hydroquinone in cosmetic products**
Aydar S., Bayraktepe D., Filik H., YAZAN Z.
Acta Chimica Slovenica, cilt.65, sa.4, ss.946-954, 2018 (SCI-Expanded)

XXIV. **Electrochemical sensor based on a sepiolite clay nanoparticle-based electrochemical sensor for ascorbic acid detection in real-life samples**
Pekin M., Bayraktepe D., YAZAN Z.
Ionics, cilt.23, sa.12, ss.3487-3495, 2017 (SCI-Expanded)

XXV. **Syntheses, characterization of and studies on the electrochemical behaviour of ferrocenyl dithiophosphonates and 4-methoxyphenyl dithiophosphonates**
SAĞLAM E. G., Erden S., Tutsak O., Bayraktepe D., Durmus Z., DAL H., Ebinc A.
Phosphorus, Sulfur and Silicon and the Related Elements, cilt.192, sa.3, ss.322-329, 2017 (SCI-Expanded)

XXVI. **Sensitive and selective voltammetric determination of anti-cancer agent shikonin on sepiolite clay/TiO2 nanoparticle/MWCNTs composite carbon paste sensor and investigation of its electro-oxidation mechanism**
Bayraktepe D., YAZAN Z., POLAT K.
Journal of Electroanalytical Chemistry, cilt.780, ss.38-45, 2016 (SCI-Expanded)

XXVII. **TiO 2 modified carbon paste sensor for voltammetric analysis and chemometric optimization approach of amlodipine in commercial formulation**
Erden S., Bayraktepe D., YAZAN Z., DİNÇ E.
Ionics, cilt.22, sa.7, ss.1231-1240, 2016 (SCI-Expanded)

XXVIII. **Voltammetric determination of etoposide by using Sepiolite clay modified electrode and its interaction with DNA**
Bayraktepe D., Yanardag T., Yazan Z., Aksut A.
Revue Roumaine de Chimie, cilt.60, sa.4, ss.287-295, 2015 (SCI-Expanded)

XXIX. **Electrochemical characterization and voltammetric anodic stripping methods for the determination of valsartan**
Gurler N., Bayraktepe D., Durmus Z., DİNÇ E.
Revista de Chimie, cilt.64, sa.11, ss.1211-1217, 2013 (SCI-Expanded)

XXX. **Electrochemical oxidation of atorvastatin and its adsorptive stripping determination in pharmaceutical dosage forms and biological fluids**
Eskiköy D., Durmus Z., Kiliç E.

Collection of Czechoslovak Chemical Communications, cilt.76, sa.12, ss.1633-1649, 2011 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **An adsorptive stripping voltammetric study based on disposable pencil graphite sensor for the determination of caffeine in local brand ice tea**
Zereykaya b., Eskiköy Bayraktepe D., YAZAN Z.
Cumhuriyet Science Journal, cilt.41, sa.3, ss.680-689, 2020 (Hakemli Dergi)

II. **NiO Modifiye Karbon Pasta Sensör Yüzeyinde Bakır ve Kadmiyum'un Anodik Sıyırma Voltametrisi ile Tayini**
YILDIZ C., ESKİKÖY BAYRAKTEPE D., YAZAN Z.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, cilt.7, sa.3, ss.1403-1416, 2019 (Hakemli Dergi)

III. **NiO Modifiye Karbon Pasta Sensör Yüzeyinde Bakır ve Kadmiyum"un Anodik Sıyırma Voltametrisi ile Bir arada Tayini**
YILDIZ C., Eskiköy Bayraktepe D., YAZAN Z.
Düzce ÜniversitesiBilim ve Teknoloji Dergisi, cilt.7, ss.1403-1416, 2019 (Hakemli Dergi)

IV. **Electrochemical oxidation pathway of the anti-cancer agent dasatinib using disposable pencil graphite electrode and its adsorptive stripping voltammetric determination in biological samples**
EskİkÖy Bayraktepe D., POLAT K., YAZAN Z.
Journal of the Turkish Chemical Society, Section A: Chemistry, cilt.5, sa.2, ss.381-392, 2018 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **A FOUR-WAY ANALYSIS OF FOUR-DIMENSIONALVOLTAMMETRIC DATASET FOR MONITORING THEINTERACTION OF ETOPOSIDE AND CALF THYMUS DNAUSING PARAFAC MODEL**
ESKİKÖY BAYRAKTEPE D., YAZAN Z., DİNÇ E.
International Conference on New Trends in Chemometrics and Applications, 1 - 04 Mayıs 2019

II. **Three-Way Analysis of Potential-Frequency Dataset for the Determinationof the pKa Values of Aspirin by Parallel Factor Analysis Model**
YAZAN Z., ESKİKÖY BAYRAKTEPE D., DİNÇ E.
International Conference on New Trends in Chemometrics and Applications, 1 - 04 Mayıs 2019

III. **A Four-Way Analysis of Four-Dimensional Voltammetric Dataset for Monitoring The İnteraction of Etoposide and Calf Thymus DNA Using PARAFAC Model**
Eskiköy Bayraktepe D., YAZAN Z., DİNÇ E.
4th International Conference on New Trends in Chemometricsand Applications, 1 - 04 Mayıs 2019

IV. **An Electrochemıcal Sensor For Sensıtıve and Fast Detectıon of Mıtoxantrone Based On Nanosepıolıte Electrode**
ESKİKÖY BAYRAKTEPE D., YILDIZ C., YAZAN Z.
12th International Symposium on Pharmaceutical Sciences-ISOPS2018, 26 - 29 Haziran 2018

V. **Electrochemical Sensor For The Determination of Anti-Cancer Shikonin Based on NSC/TiO2/MWCNTs Composite**
ESKİKÖY BAYRAKTEPE D., YAZAN Z.
12th International Symposium on Pharmaceutical Sciences-ISOPS2018, 26 - 29 Haziran 2018

VI. **Simultaneous Determination of Copper and Cadmium at NiO Modified Carbon Paste Sensor by Anodic Stripping Voltammetry**
YILDIZ C., ESKİKÖY BAYRAKTEPE D., YAZAN Z.
International Trace Analysis Congress-ITAC2018, 20 - 23 Haziran 2018

VII. **A Novel Electrochemical Sensor for Simultaneous Analysis of Ascorbic Acidand Acetyl Salicylic Acid Using BENT/Mwcnts Composite Modified PencilGraphite Electrode**

ESKİKÖY BAYRAKTEPE D., YAZAN Z.
International Trace Analysis Congress 2018 (ITAC 2018), 20 - 23 Haziran 2018

VIII. **Adsorptive Stripping voltammetric determination of the anti-cancer agent dasatinib using disposable pencil-Graphite Electrode**
Eskiköy Bayraktepe D., YAZAN Z., POLAT K.
ANCON International congress of chemistry and materials sciences, Ankara, Türkiye, 5 - 07 Ekim 2017

IX. **Adsoptive StrippingVoltammetric Determination of the Anti-Cancer Agent Dastanib Using Disportable Pencil-Graphite Electrode.**
Eskiköy Bayraktepe D., Yazan Z., Polat K.
ANCON 2017,International Congress on Chemistry and Materials Science., Ankara, Türkiye, 5 - 10 Ekim 2017

X. **Voltammetric Mitoxantrone Determination in Biological andPharmaceutical Samples Using a Carbon Paste Sensor Modified with Sepiolite Clay**
ESKİKÖY BAYRAKTEPE D., YILDIZ C., YAZAN Z.
"International Congress on Chemistryand Materials Science", 5 - 07 Ekim 2017

XI. **Investigating the interaction of DNA and bicalutamide by using cylic and differential pulse voltammetric methods**
YAZAN Z., ESKİKÖY BAYRAKTEPE D.
Recent Developments in Pharmaceutical Analysis - RDPA 2017, 20 - 23 Eylül 2017

XII. **Anti-cancer agent bicalutamide determination on sepiolite modifiedcarbon paste sensor by differential puls and square wave voltammetry**
YAZAN Z., ESKİKÖY BAYRAKTEPE D.
Recent Developments in Pharmaceutical Analysis - RDPA 2017, 20 - 23 Eylül 2017

XIII. **Anti-cancer agent shikonin determination on modified carbon paste sensor by adsorptive stripping voltammetry and interaction with ds-DNA**
ESKİKÖY BAYRAKTEPE D., YAZAN Z.
3. Uluslararası İlaç ve Eczacılık Kongresi, 26 - 29 Nisan 2017

XIV. **Anti-cancer agent shikonin determination on modified carbon paste sensor by adsorptive stripping voltammetry and interaction with ds-DNA**
Yazan Z., Eskiköy Bayraktepe D.
3. ilaç ve Eczacılık kongresi, İstanbul, Türkiye, 26 - 29 Nisan 2017, ss.1-3

XV. **Novel Electrochemical Sensor Based on Sepiolite Clay Modified Carbon Paste Electrode for Ascorbic Acid Detection**
Pekin M., Eskiköy Bayraktepe D., DURMUŞ Z.
10th Aegean lytical Chemistry Days, 29 Eylül - 02 Ekim 2016

XVI. **Sensitive and Selective Voltammetric Approach for Determination of Anti Cancer Drug Etoposide Based on Sepiolite clay TiO2 nanoparticles Modified Carbon Paste Sensor and Investigation of its Interaction with DNA**
Eskiköy Bayraktepe D., DURMUŞ Z.
10th Aegean analytical Chemistry Days, 29 Eylül - 02 Ekim 2016

Desteklenen Projeler

Yazan Z., Eskiköy Bayraktepe D., TÜBİTAK Projesi, Bazı Antikanser İlaçların Biyouyumlu DNA Biyosensörü ile Tayinleri ve DNA ile Etkileşimlerinin İncelenmesi, 2021 - 2022

Yazan Z., Eskiköy Bayraktepe D., Yükseköğretim Kurumları Destekli Proje, Bentonit kiline dayanan, sudaki ağır metallerin tayinine yönelik basit, uygulanabilir, ekonomik bir karbon esaslı perde baskılı voltametrik sensör geliştirilmesi, 2020 - 2022

Bilimsel Hakemlikler

Yükseköğretim Kurumları Destekli Proje, BAP Araştırma Projesi, Karadeniz Teknik Üniversitesi, Türkiye, Kasım 2022

Metrikler

Yayın: 55
Atıf (WoS): 268
Atıf (Scopus): 320
H-İndeks (WoS): 11
H-İndeks (Scopus): 12