

## Doç. Dr. BERNA DALKIRAN

### Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AFA-9905-2022

ScopusID: 36620161500

### Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 2009 - 2015

Yüksek Lisans, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 2007 - 2009

Lisans, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 2003 - 2007

### Yabancı Diller

İngilizce, C1 İleri

### Araştırma Alanları

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. Electrosynthesis of toluidine blue on Fe<sub>3</sub>O<sub>4</sub> nanoparticles modified electrodes in a deep eutectic solvent for the electrochemical determination of neurotransmitter epinephrine**  
Uysal İ., DALKIRAN B., ATAKOL O.  
MICROCHEMICAL JOURNAL, cilt.199, 2024 (SCI-Expanded)
- II. Facile fabrication of NaOH nanorods on pencil graphite electrode for simultaneous electrochemical detection of natural antioxidants by deep eutectic solvent**  
Dalkıran B., Bekirođlu Ataş H.  
ELECTROCHIMICA ACTA, cilt.474, 2024 (SCI-Expanded)
- III. Poly(safranine T)-deep eutectic solvent/copper oxide nanoparticle-carbon nanotube nanocomposite modified electrode and its application to the simultaneous determination of hydroquinone and catechol**

Dalkiran B., Brett C. M.

MICROCHEMICAL JOURNAL, cilt.179, 2022 (SCI-Expanded)

- IV. **Polyphenazine and polytriphenylmethane redox polymer/nanomaterial-based electrochemical sensors and biosensors: a review**  
Dalkiran B., Brett C. M. A.  
Microchimica Acta, cilt.188, sa.5, 2021 (SCI-Expanded)
- V. **A novel nanostructured poly(thionine)-deep eutectic solvent/CuO nanoparticle film-modified disposable pencil graphite electrode for determination of acetaminophen in the presence of ascorbic acid**  
Dalkiran B., Brett C. M. A.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, cilt.413, sa.4, ss.1149-1157, 2021 (SCI-Expanded)
- VI. **Disposable biosensors based on platinum nanoparticle-modified screen-printed carbon electrodes for the determination of biogenic amines**  
Dalkiran B., KAÇAR SELVİ C., Can E., Erden P. E., Kilic E.  
Monatshefte fur Chemie, cilt.151, sa.12, ss.1773-1783, 2020 (SCI-Expanded)
- VII. **Electrochemical synthesis and characterization of poly(thionine)-deep eutectic solvent/carbon nanotube-modified electrodes and application to electrochemical sensing**  
Dalkiran B., Fernandes I. P. G., David M., Brett C. M. A.  
MICROCHIMICA ACTA, cilt.187, sa.11, 2020 (SCI-Expanded)
- VIII. **Amperometric determination of heavy metal using an HRP inhibition biosensor based on ITO nanoparticles-ruthenium (III) hexamine trichloride composite: Central composite design optimization**  
Dalkiran B.  
Bioelectrochemistry, cilt.135, 2020 (SCI-Expanded)
- IX. **Amperometric biogenic amine biosensors based on Prussian blue, indium tin oxide nanoparticles and diamine oxidase- or monoamine oxidase-modified electrodes**  
KAÇAR SELVİ C., Erden P. E., Dalkiran B., İNAL E. K., Kilic E.  
Analytical and Bioanalytical Chemistry, cilt.412, sa.8, ss.1933-1946, 2020 (SCI-Expanded)
- X. **Disposable Amperometric Biosensor Based on Poly-L-lysine and Fe<sub>3</sub>O<sub>4</sub> NPs-chitosan Composite for the Detection of Tyramine in Cheese**  
Dalkiran B., Erden P. E., KAÇAR SELVİ C., Kilic E.  
Electroanalysis, cilt.31, sa.7, ss.1324-1333, 2019 (SCI-Expanded)
- XI. **Effect of hexaammineruthenium chloride and/or horseradish peroxidase on the performance of hydrogen peroxide (bio)sensors: a comparative study**  
Ozdemir D. S., KAÇAR SELVİ C., Dalkiran B., KÜÇÜKKOLBAŞI S., Erden P. E., Kilic E.  
Journal of Materials Science, cilt.54, sa.7, ss.5381-5398, 2019 (SCI-Expanded)
- XII. **Chromate-selective electrodes prepared by using calix[4]arenes for the speciation of Cr(VI) and Cr(III)**  
Dalkiran B., Kormalı Ertürün H. E., Demirel Özel A., Canel E., Özkınalı S., Kilic E.  
Ionics, cilt.23, sa.9, ss.2509-2519, 2017 (SCI-Expanded)
- XIII. **Amperometric biosensors based on carboxylated multiwalled carbon nanotubes-metal oxide nanoparticles-7,7,8,8-tetracyanoquinodimethane composite for the determination of xanthine**  
Dalkiran B., Erden P. E., Kilic E.  
Talanta, cilt.167, ss.286-295, 2017 (SCI-Expanded)
- XIV. **Graphene and tricobalt tetraoxide nanoparticles based biosensor for electrochemical glutamate sensing**  
Dalkiran B., Erden P. E., Kilic E.  
Artificial Cells, Nanomedicine and Biotechnology, cilt.45, sa.2, ss.340-348, 2017 (SCI-Expanded)
- XV. **Electrochemical biosensing of galactose based on carbon materials: graphene versus multi-walled carbon nanotubes**  
Dalkiran B., Erden P. E., Kilic E.

- Analytical and Bioanalytical Chemistry, cilt.408, sa.16, ss.4329-4339, 2016 (SCI-Expanded)
- XVI. **Dual functional graphene derivative-based electrochemical platforms for detection of the TP53 gene with single nucleotide polymorphism selectivity in biological samples**  
Esteban-Fernandez de Avila B., Araque E., Campuzano S., Pedrero M., Dalkiran B., Barderas R., Villalonga R., Kilic E., Pingarron J. M.  
Analytical Chemistry, cilt.87, sa.4, ss.2290-2298, 2015 (SCI-Expanded)
- XVII. **An amperometric hydrogen peroxide biosensor based on Co<sub>3</sub>O<sub>4</sub> nanoparticles and multiwalled carbon nanotube modified glassy carbon electrode**  
KAÇAR SELVİ C., Dalkiran B., Erden P. E., Kilic E.  
Applied Surface Science, cilt.311, ss.139-146, 2014 (SCI-Expanded)
- XVIII. **Amperometric xanthine biosensors based on chitosan-Co<sub>3</sub>O<sub>4</sub>-multiwall carbon nanotube modified glassy carbon electrode**  
Dalkiran B., KAÇAR SELVİ C., Erden P. E., Kilic E.  
Sensors and Actuators, B: Chemical, cilt.200, ss.83-91, 2014 (SCI-Expanded)
- XIX. **A novel lariat crown compound as ionophore for construction of a mercury(II)-selective electrode**  
Dalkiran B., Özel A., Parlavan S., Canel E., Ocak Ü., Kılıç E.  
Monatshefte für Chemie, cilt.141, sa.8, ss.829-839, 2010 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

- I. **Amin Fonksiyonlu Karbon Nanotüp, Kalay Oksit Nanopartikül ve Diamin Oksidaz Temelli Triptamin Biyosensörü**  
Kaçar Selvi C., Dalkiran B.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, cilt.8, ss.631-641, 2019 (Hakemli Dergi)
- II. **Ksantin Biyosensörlerinin Performansına Çeşitli Çok Duvarlı Karbon Nanotüplerinin Etkisi**  
Kaçar Selvi C., Dalkiran B., Erden P. E., Kılıç E.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.22, ss.832-839, 2018 (Hakemli Dergi)
- III. **Electrochemical xanthine biosensor based on zinc oxide nanoparticles- multiwalled carbon nanotubes-1,4-benzoquinone composite**  
Dalkiran B., KAÇAR SELVİ C., Erden P. E., Kılıç E.  
Journal of the Turkish Chemical Society, Section A: Chemistry, cilt.5, sa.1, ss.317-332, 2018 (Scopus)
- IV. **CONSTRUCTION OF AN ELECTROCHEMICAL XANTHINE BIOSENSOR BASED ON GRAPHENE/COBALT OXIDE NANOPARTICLES/CHITOSAN COMPOSITE FOR FISH FRESHNESS DETECTION**  
Dalkiran B., Erden P. E., Kılıç E.  
Journal of the Turkish Chemical Society, Section A: Chemistry, cilt.4, ss.23-44, 2017 (Hakemli Dergi)

## Desteklenen Projeler

- Dalkiran B., Atakol O., TÜBİTAK Projesi, Preparation of nanomaterial-based electrochemical sensors based on electropolymerization of amino acids in deep eutectic solvent, 2024 - 2024
- Dalkiran B., Atakol O., Yükseköğretim Kurumları Destekli Proje, Derin ötektik çözücü varlığında amino asitlerin elektropolimerizasyonuna dayanan nanomalzeme temelli elektrokimyasal sensörlerin hazırlanması, 2022 - 2024
- Dalkiran B., Atakol O., Yükseköğretim Kurumları Destekli Proje, Modifiye katı elektrotlar kullanılarak çeşitli türlerin elektrokimyasal davranışlarının incelenmesi ve tayini, 2021 - 2022
- Uysal I., Dalkiran B., Atakol O., Yükseköğretim Kurumları Destekli Proje, Nanomalzeme Temelli Elektrokimyasal Sensör ve Biyosensörlerin Geliştirilmesi ve Uygulamaları, 2021 - 2022
- Dalkiran B., Brett C. M., TÜBİTAK Projesi, Nanomaterial Modified Electrodes Based on Redox Polymers Synthesized in Deep Eutectic Solvents for Voltammetric and Amperometric Analysis, 2020 - 2021
- Dalkiran B., Erden P. E., Kaçar Selvi C., Kenar A., Anlı R. E., Kılıç E., TÜBİTAK Projesi, Gıdalarda Biyojenik Aminlerin

Eřzamanlı Tayini İin Tek Kullanımlık Amperometrik Sıralı Biyosensör Grubu Geliřtirilmesi, 2017 - 2019  
Dalkıran B., Kaar Selvi C., Erden P. E., Kılı E., Yksekğretim Kurumları Destekli Proje, eřitli Modifikasyon Yöntemleriyle Yeni Amperometrik Enzim Elektrotlar Hazırlanması, 2014 - 2015  
Dalkıran B., Kaar Selvi C., Kılı E., Yksekğretim Kurumları Destekli Proje, Bazı Türlerin Tayini iin Modifiye Amperometrik Enzim Elektrotların Geliřtirilmesi, 2013 - 2014  
Karakuř E., Zeybek B., Demirel Özel A., Koyuncu Zeybek D., Kılı E., Peıyardımcı ř., TÜBİTAK Projesi, eřitli Türlerin Tayininde Kullanılabilecek Potansiyometrik ve Amperometrik Biyosensörlerin Geliřtirilmesi, 2007 - 2009

## **Metrikler**

Yayın: 46

Atf (WoS): 469

Atf (Scopus): 534

H-İndeks (WoS): 13

H-İndeks (Scopus): 13