

Asst. Prof. CANAN ÖZYURT

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAY-6055-2021

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Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Biyokimya Anabilim Dalı , Turkey 2009 - 2014

Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Biyokimya Anabilim Dalı , Turkey 2007 - 2009

Dissertations

Doctorate, Protein mühendisliği yoluyla ligand bağlayıcı protein ve fotoprotein temelli genetik kodlanmış sensörlerin tasarlanması, Ege University, Fen Bilimleri Enstitüsü , Biyokimya Anabilim Dalı , 2014

Postgraduate, Yeni immobilizasyon ve ölçüm tekniklerinin kullanımıyla hemoglobin temelli hidrojen peroksit biyosensörlerinin geliştirilmesi ve karakterizasyonu, Ege University, Ege Üniversitesi Fen Bilimleri Enstitüsü , Biyokimya Anabilim Dalı , 2009

Research Areas

Life Sciences, Biotechnology, Biosensor, Molecular Biology and Genetics, Chemistry, Analytical Chemistry, fluorimetry, Chromatographic Analysis, Biochemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2019 - Continues

Academic and Administrative Experience

Canakkale Onsekiz Mart University, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. A review of aptamer-conjugated nanomaterials for analytical sample preparation: Classification according to the utilized nanomaterials

Uğurlu Ö., Man E., Gök O., Ülker G., Soytürk H., ÖZYURT C., EVRAN S.

Analytica Chimica Acta, vol.1287, 2024 (SCI-Expanded)

- II. **Lateral flow assays for food analyses: Food contaminants, allergens, toxins, and beyond**
İnce B., ULUDAĞ İ., DEMİRBAKAN B., ÖZYURT C., ÖZCAN B., SEZGİNTÜRK M. K.
TrAC - Trends in Analytical Chemistry, vol.169, 2023 (SCI-Expanded)
- III. **Lab-on-a-chip systems for cancer biomarker diagnosis**
ÖZYURT C., ULUDAĞ İ., İnce B., SEZGİNTÜRK M. K.
Journal of Pharmaceutical and Biomedical Analysis, vol.226, 2023 (SCI-Expanded)
- IV. **Fluid-based wearable sensors: a turning point in personalized healthcare**
Vural B., ULUDAĞ İ., İnce B., ÖZYURT C., Ozturk F., SEZGİNTÜRK M. K.
Turkish Journal of Chemistry, vol.47, no.5, pp.944-967, 2023 (SCI-Expanded)
- V. **An ultrasensitive and disposable electrochemical aptasensor for prostate-specific antigen (PSA) detection in real serum samples**
Özyurt C., Uludağ İ., Sezgintürk M. K.
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.8, pp.1-14, 2022 (SCI-Expanded)
- VI. **Biosensing strategies for diagnosis of prostate specific antigen**
ÖZYURT C., ULUDAĞ İ., İnce B., SEZGİNTÜRK M. K.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.209, 2022 (SCI-Expanded)
- VII. **The single-step synthesis of thiol-functionalized phosphazene-based polymeric microspheres as drug carrier**
Özay H., Ilgin P., Özyurt C., Özay Ö.
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, vol.59, no.17, pp.1944-1955, 2020 (SCI-Expanded)
- VIII. **Single-stranded DNA (ssDNA) Aptamer targeting SipA protein inhibits Salmonella Enteritidis invasion of intestinal epithelial cells**
Shatila F., Yalcin H. T., ÖZYURT C., EVRAN S., Cakir B., YAŞA İ., NALBANTSOY A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.148, pp.518-524, 2020 (SCI-Expanded)
- IX. **A highly sensitive DNA aptamer-based fluorescence assay for sarcosine detection down to picomolar levels**
Özyurt C., Canbay Z. Ç., Dinçkaya E., EVRAN S.
International Journal of Biological Macromolecules, vol.129, pp.91-97, 2019 (SCI-Expanded)
- X. **Development of genetically encoded fluorescent protein constructs of hyperthermophilic maltose-binding protein**
Ozyurt C., EVRAN S., Telefoncu A.
Preparative Biochemistry and Biotechnology, vol.44, no.2, pp.132-145, 2014 (SCI-Expanded)
- XI. **Development of a novel fluorescent protein construct by genetically fusing green fluorescent protein to the N-terminal of aspartate dehydrogenase**
Ozyurt C., EVRAN S., Telefoncu A.
Biotechnology and Applied Biochemistry, vol.60, no.4, pp.399-404, 2013 (SCI-Expanded)

Books & Book Chapters

- I. **Nucleic Acid Aptamers Against Virulence Factors of Drug Resistant Pathogens**
ÖZYURT C., UĞURLU Ö., BORA B., EVRAN S.
in: Frontiers in Anti-Infective Drug Discovery, , Editor, Bentham Baltzer Science Publishers, 2018
- II. **Cell-penetrating peptides in nanodelivery of nucleic acids and drugs**
ÖZYURT C., UĞURLU Ö., EVRAN S.
in: Nanostructures for the Engineering of Cells, Tissues and Organs, Grumezescu Alexandru Mihai, Editor, Elsevier, 2018
- III. **Pathogen-specific nucleic acid aptamers as targeting components of antibiotic and gene delivery systems**
ÖZYURT C., BORA B., UĞURLU Ö., EVRAN S.

Refereed Congress / Symposium Publications in Proceedings

- I. **An Immunosensor Using A Specific Aptamer as A Bioreceptor for Quantification of Sarcosine**
ULUDAĞ İ., ÖZYURT C., ÜNAL M. A., SEZGİNTÜRK M. K., ÖZKAN S. A.
33rd International Symposium on Pharmaceutical and Biomedical Analysis, 2 - 06 July 2023
- II. **Development of a Fluorescence-Based Nucleic Acid Biosensor for the Detection of Bacterial Protease Enzyme**
ÖZYURT C., EVRAN S., SEZGİNTÜRK M. K.
33rd International Symposium on Pharmaceutical and Biomedical Analysis, 2 - 06 July 2023
- III. **A lateral flow assay in competitive format for the quantitative detection of soluble interleukin 1 receptor-like 1**
İnce B., ÖZYURT C., SEZGİNTÜRK M. K.
4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, 03 November 2022
- IV. **Development of an Immunochromatographic Test for Sensitive and Selective Detection of Haptoglobin**
ÖZYURT C., İnce B., SEZGİNTÜRK M. K.
4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Turkey, 03 November 2022
- V. **Genetically Encoded Bioluminescence Resonance Energy Transfer (BRET) Biosensor for Detection of D-Allose.**
ÖZYURT C., EVRAN S., TELEFONCU A.
1.Euroasia Biochemical Approaches Technologies Congress, Antalya, Turkey, 27 - 30 October 2018
- VI. **Optimization of aptamer-based impedimetric biosensor for detection of sarcosine**
ÇELİK CANBAY Z., ÖZYURT C., MENGÜLLÜOĞLU U., DİNÇKAYA E., EVRAN S.
febs, 7 - 12 July 2018
- VII. **Selection of ssDNA aptamers for the development of impedance biosensor to detect sarcosine**
ÖZYURT C., ÇELİK CANBAY Z., MENGÜLLÜOĞLU U., DİNÇKAYA E., EVRAN S.
18th Congress On Biotechnology, 1 - 04 July 2018
- VIII. **Development of a biosensing system for E. coli cells based on antimicrobial peptide cecropin,**
ÖZYURT C., EVRAN S., TELEFONCU A.
FEBS, 14 - 17 September 2016
- IX. **Biosensor Specific For Pathogenic Gene Region Of Listeria Monocytogenes**
ÖZYURT C., EVRAN S., TELEFONCU A.
BBMEC, 26 - 30 September 2015
- X. **Mercury Sensing Based On Genetically Encoded Fluorescent Protein And Merr**
ÖZYURT C., EVRAN S., TELEFONCU A.
International Conference On Applied Informatics For Health And Life Sciences, 19 - 22 October 2014
- XI. **Bioluminescence Resonance Energy Transfer (BRET) based biosensor for D-allose**
ÖZYURT C., EVRAN S., TELEFONCU A.
EMBO/EMBL Symposium: Seeing is Believing – Imaging the Processes of Life, 3 - 06 October 2013
- XII. **Blue Fluorescent Protein-Based Biosensor For D-Allose**
ECE S., ÖZYURT C., EVRAN S.
3rd International Conference on Bio-Sensing Technology (BITE), 13 - 15 May 2013
- XIII. **Recombinant CFP – MerR Fusion Protein as a Mercury Ion Biosensor**
ÖZYURT C., EVRAN S., TELEFONCU A.
3rd International Conference on Bio-Sensing Technology (BITE), 13 - 15 May 2013
- XIV. **Fusion of green fluorescent protein to the N-terminal of aspartate dehydrogenase**
ÖZYURT C., EVRAN S., TELEFONCU A.
International Conference on Enzyme Science and Technology (ICEST), 31 October - 04 November 2011

XV. Construction of a Fusion Protein Between GFP and Sugar Binding Protein

ÖZYURT C., EVRAN S., TELEFONCU A.

The International Congress on Bioinformatics and Biomics, 18 - 20 May 2011

Supported Projects

SEVİNÇ POSTACI E., ÖZYURT C., AKGÜN M., Project Supported by Higher Education Institutions, Kudret narı ekstraktı içeren polimerik bazlı yara örtüsünün elektroegirme tekniği ile üretilmesi ve karakterizasyonu, 2022 - 2023

ÖZYURT C., SEZGİNTÜRK M. K., ULUDAĞ İ., Project Supported by Higher Education Institutions, Aptamer ile Modifiye Edilmiş ITOPET Elektrot Temelli İmpedimetrik PSA Biyosensörünün Tasarlanması, 2020 - 2022

Aydın G., Gür E., Özyurt C., Kabaş A., Demir H., Yağmur S., TUBITAK Project, Mühendis Olmaya Adım Adım, 2020 - 2021

SEZGİNTÜRK M. K., İnce B., ÖZYURT C., ULUDAĞ İ., AYDIN E. B., AYDIN M., Project Supported by Higher Education Institutions, CORONA VİRÜS TANISI İÇİN LATERAL FLOW IMMUNOASSAY TEST KİTİ CoV19LFA GELİŞTİRİLMESİ, 2020 - 2021

TUBITAK Project, Sarkozine spesifik DNA aptamerlerinin geliştirilmesi ve aptamer temelli impedimetrik biyosensörün tasarlanması, 2016 - 2018

TUBITAK Project, Fındık ve fıstık alerjen proteinlerinin tayini için DNA aptameri temelli kit geliştirilmesi, 2015 - 2016

TUBITAK Project, Patojen bakterinin gen bölgesine spesifik floresans protein temelli bir biyosensörün geliştirilmesi, 2014 - 2015

TUBITAK Project, D-Alloz Tayini İçin Genetik Olarak Kodlanmış Biyoluminesans Rezonans Enerji Transferi (BRET) Temelli Biyosensör Tasarlanması, 2012 - 2014

Metrics

Publication: 35

Citation (WoS): 18

Citation (Scopus): 61

H-Index (WoS): 3

H-Index (Scopus): 4