Dr. Öğr. Üyesi Ceyhun Ekrem KIRIMLI

Kişisel Bilgiler

İş Telefonu: +90 216 500 4157
E-posta: Ceyhun.Kirimli@acibadem.edu.tr
Web: https://avesis.acibadem.edu.tr/Ceyhun.Kirimli

Uluslararası Araştırmacı ID'leri
ORCID: 0000-0001-7470-0059
Publons / Web Of Science ResearcherID: H-4647-2016
ScopusID: 55595592500
Yoksis Araştırmacı ID: 250813

Eğitim Bilgileri

Doktora, Drexel University, School Of Biomedical Engineering Science And Health Systems, Amerika Birleşik Devletleri 2008 - 2014
Yüksek Lisans, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Mühendisliği (Yl) (Tezli), Türkiye 2005 - 2008
Lisans, Boğaziçi Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Türkiye 1999 - 2005

Sertifika, Kurs ve Eğitimler

Diğer, Mastering Quantum Mechanics, Massachusetts Institute of Technology, 2015
Diğer, Introduction to Linear Models and Matrix Algebra, Harvard University, 2015
Diğer, Statistics and R for the Life Sciences, Harvard University, 2015
Diğer, Embedded Systems - Shape the World, The University of Texas at Austin, 2015
Diğer, Electronic Interfaces: Bridging the Physical and Digital Worlds, University of California, Berkeley, 2015

Yaptığı Tezler

Doktora, In situ detection of transrenal gene mutations without DNA isolation and amplification using Array Piezoelectric Plate Sensor (PEPS), Drexel University, School Of Biomedical Engineering Science And Health Systems, 2013
Yüksek Lisans, Working memory performance assessment while monitoring the prefrontal cortex hemodynamics by means of functional near infrared spectroscopy, Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Mühendisliği (Yl) (Tezli), 2008

Araştırma Alanları

Biyoenstrümantasyon ve MEMS

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Acıbadem Mehmet Ali Aydınlar Üniversitesi, Mühendislik ve Doğa Bilimleri Fakültesi, Biyomedikal

Mühendisliği Bölümü, 2016 - Devam Ediyor
Öğretmen, Drexel University, School of Biomedical Engineering Science and Health Systems, 2008 - 2013
Araştırma Görevlisi, Drexel University, School Of Biomedical Engineering Science And Health Systems, 2008 - 2013

Verdiği Dersler

Point of Care Technologies, Lisans, 2023 - 2024, 2022 - 2023
Biyomikroelektronik Sistemler, Doktora, 2023 - 2024
Bitirme Tasarim Projesi II, Lisans, 2022 - 2023
Technical Drawing, Lisans, 2022 - 2023
Technical Drawing, Lisans, 2022 - 2023
Gelismis Biyosensorler, Doktora, 2022 - 2023
Senior Design 1, Lisans, 2023 - 2024, 2022 - 2023
Bio-Microelectromechanic Systems, Yüksek Lisans, 2023 - 2024, 2022 - 2023, 2021 - 2022
Biosensors, Yüksek Lisans, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017
Biosensors, Lisans, 2021 - 2022, 2020 - 2021
Senior Design, Lisans, 2021 - 2022
Biosensors, Lisans, 2020 - 2021
Senior Design I, Lisans, 2021 - 2022
Point of Care Technologies, Lisans, 2021 - 2022, 2018 - 2019, 2017 - 2018
Bio-Microelectromechanical Systems, Lisans, 2020 - 2021
Human Anatomy and Physiology, Lisans, 2016 - 2017

Yönetilen Tezler

Kırımlı C. E., GÖK Ö., Design of DNA-Hydrogel Based Quartz Crystal Microbalance, Yüksek Lisans, M.CANSU(Öğrenci), 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Small world properties of schizophrenia and OCD patients derived from fNIRS based functional brain network connectivity metrics**
AKIN A., Yorgancıgil E., Öztürk O. C., SÜTÇÜBAŞI B., KIRIMLI C. E., Elgün Kırımlı E., DUMLU S. N., YUKSELEN G., ERDOĞAN S. B.
Scientific Reports, cilt.14, sa.1, 2024 (SCI-Expanded)

II. **Hydrogel-Integrated Heart-on-a-Chip Platform for Assessment of Myocardial Ischemia Markers**
Ates B., Eroglu T., Sahsuvar S., KIRIMLI C. E., Kocaturk O., SENAY S., Gok Ö.
ACS Omega, cilt.9, sa.41, ss.42103-42115, 2024 (SCI-Expanded)

III. **A Novel Peptide-Based Detection of SARS-CoV-2 Antibodies**
Bulut A., Temur B. Z., Kirimli C. E., Gok Ö., Balcioglu B. K., Ozturk H. U., Uyar N., Kanlidere Z., Kocagoz T., Can Ö.
BIOMIMETICS, cilt.8, sa.1, 2023 (SCI-Expanded)

IV. **Rapid, label-free genetic detection of enteropathogens in stool without genetic isolation or amplification**
Han S., SOYLU M. Ç., KIRIMLI C. E., Wu W., Sen B., Joshi S. G., Emery C. L., Au G., Niu X., Hamilton R., et al.
BIOSENSORS & BIOELECTRONICS, cilt.130, ss.73-80, 2019 (SCI-Expanded)

V. **In situ, amplification-free double-stranded mutation detection at 60 copies/ml with thousand-fold wild type in urine**
Kirimli C. E., Lin S., Su Y., Shih W., Shih W. Y.

BIOSENSORS & BIOELECTRONICS, cilt.119, ss.221-229, 2018 (SCI-Expanded)

VI. **Piezoelectric Plate Sensor (PEPS) for Analysis of Specific KRAS Point Mutations at Low Copy Number in Urine Without DNA Isolation or Amplification**
Kirimli C. E., Shih W., Shih W. Y.
BIOSENSORS AND BIODETECTION: METHODS AND PROTOCOLS, VOL 2: ELECTROCHEMICAL, BIOELECTRONIC, PIEZOELECTRIC, CELLULAR AND MOLECULAR BIOSENSORS, 2ND EDITION, cilt.1572, ss.327-348, 2017 (SCI-Expanded)

VII. **Amplification-free in situ KRAS point mutation detection at 60 copies per mL in urine in a background of 1000-fold wild type**
Kirimli C. E., Shih W., Shih W. Y.
ANALYST, cilt.141, sa.4, ss.1421-1433, 2016 (SCI-Expanded)

VIII. **Specific in situ hepatitis B viral double mutation (HBVDM) detection in urine with 60 copies ml(-1) analytical sensitivity in a background of 250-fold wild type without DNA isolation and amplification**
Kirimli C. E., Shih W., Shih W. Y.
ANALYST, cilt.140, sa.5, ss.1590-1598, 2015 (SCI-Expanded)

IX. **DNA hybridization detection with 100 zM sensitivity using piezoelectric plate sensors with an improved noise-reduction algorithm**
Kirimli C. E., Shih W., Shih W. Y.
ANALYST, cilt.139, sa.11, ss.2754-2763, 2014 (SCI-Expanded)

X. **Real-time, in situ DNA hybridization detection with attomolar sensitivity without amplification using (pb(Mg1/3Nb2/3)O-3)(0.65)-(PbTiO3)(0.35) piezoelectric plate sensors**
Wu W., Kirimli C. E., Shih W., Shih W. Y.
BIOSENSORS & BIOELECTRONICS, cilt.43, ss.391-399, 2013 (SCI-Expanded)

XI. **Temperature- and flow-enhanced detection specificity of mutated DNA against the wild type with reporter microspheres**
Kirimli C. E., Shih W., Shih W. Y.
ANALYST, cilt.138, sa.20, ss.6117-6126, 2013 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **A Comparison of Impedance and Antenna Analyzers on the Basis of Machine Learning Assisted Limit of Detection Experiments**
Kırımlı E. E., Kırımlı C. E.
2022-International Workshop on Impedance Spectroscopy (IWIS), cilt.1, sa.1, ss.61-65, 2022 (Düzenli olarak gerçekleştirilen hakemli kongrenin bildiri kitabı)

II. **Machine learning approach to optimization of parameters for impedance measurements of Quartz Crystal Microbalance to improve limit of detection**
KIRIMLI C. E., Elgun E. E., Unal U.
Biosensors and Bioelectronics: X, cilt.10, 2022 (Scopus)

Kitap & Kitap Bölümleri

I. **Piezoelectric Plate Sensor (PEPS) for Analysis of Specific KRAS Point Mutations at Low Copy Number in Urine Without DNA Isolation or Amplification**
KIRIMLI C. E., Shih W. H., Shih W. Y.
Biosensors and BiodetectionMethods and Protocols, Volume 2: Electrochemical, Bioelectronic, Piezoelectric, Cellular and Molecular Biosensors, Ben Prickril, Avraham Rasooly, Editör, Humana Press, New York, NY, New-York, ss.327-348, 2019

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **A Comparison of Impedance and Antenna Analyzers on the Basis of Machine Learning Assisted Limit of Detection Experiments**
KIRIMLI C. E., KIRIMLI E. E.
International Workshop on Impedance Spectroscopy (IWIS), Chemnitz, Almanya, 27 - 30 Eylül 2022, ss.61-65

II. **Performance Comparison Of 2 Different Battery Powered Mobile Antenna Analyzers And One Dedicated Mobile Open Source Qcm Platform**
Kırımlı C. E., Bulut A.
2. Biyomedikal Mühendisliğinde Yenilikler Kongresi, İzmir, Türkiye, 18 - 19 Eylül 2020, ss.1-5

III. **Wireless Readout System Modeling for Electrodeless QCM**
Sari A., Batur O. Z., Kirimli C. E.
16th International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD), Lausanne, İsviçre, 15 - 18 Temmuz 2019, ss.149-152

IV. **"Do It Yourself" Peristaltic Pump and Flowcell for QCM Biosensor**
Cetin I., Yilmaz G., Halilibrahimoglu H., Kirimli C. E.
21st National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Türkiye, 24 Kasım - 26 Aralık 2017

Bilimsel Hakemlikler

TÜBİTAK Projesi, 1001 - Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı, Aksaray Üniversitesi, Türkiye, Kasım 2022
TÜBİTAK Projesi, 1001 - Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı, Burdur Mehmet Akif Ersoy Üniversitesi, Türkiye, Kasım 2022
TÜBİTAK Projesi, 1001 - Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı, Fatih Sultan Mehmet Vakıf Üniversitesi, Türkiye, Kasım 2022
RSC ADVANCES, SCI Kapsamındaki Dergi, Ağustos 2022
RSC ADVANCES, SCI Kapsamındaki Dergi, Haziran 2022

Metrikler

Yayın: 18
Atıf (WoS): 75
Atıf (Scopus): 78
H-İndeks (WoS): 6
H-İndeks (Scopus): 6

Kongre ve Sempozyum Katılımı Faaliyetleri

TIPTEKNO 2017, Davetli Konuşmacı, Trabzon, Türkiye, 2017

Burslar

2224-A Yurt Dışı Bilimsel Etkinliklere Katılma Desteği Programı, TÜBİTAK, 2022 - 2022