Prof. Orhan Güney

Personal Information

Email: oguney@itu.edu.tr

International Researcher IDs
ORCID: 0000-0003-3777-4942
Publons / Web Of Science ResearcherID: Y-5539-2019
ScopusID: 6603801856
Yoksis Researcher ID: 30982

Education Information

Doctorate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1990 - 1997

Foreign Languages

English

Dissertations

Postgraduate, Development And Application Of Fluorescent Nanosensor Based On Carbon Dots Coated With Molecularly Imprinted Polymers, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya, 2019
Postgraduate, Moleküler İmprint Sol-Jel Polimer Kaplı Kuantum Noktaların Sentezi Ve Optik Sensör Uygulaması, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya, 2019
Postgraduate, • Design And Synthesis Of Molecularly Imprinted Stımuli-Responsive Hybrid Sol-Gels For Sustained Release Of Donepezil, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya, 2018
Postgraduate, Synthesis And Sensor Appplication Of Reusable Fluorescent Uranyl-Imprinted Polmer Gels, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya, 2018
Postgraduate, İyon Seçici Sol-Jel Film Sentezi Ve Optik Sensör Olarak Kullanımı, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya, 2018

Research Areas

Chemistry, Physical Chemistry, New Technologies in Polymer Chemistry, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul Technical University, Kimya Bölümü, 2016 - Continues
Associate Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2003 - 2016

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2012 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. **An Electrochemical Sensing Platform Based on Graphene Oxide and Molecularly Imprinted Polymer Modified Electrode for Selective Detection of Amoxicillin**
Güney O., Arslan T., Yanık S., Güney S.
ELECTROANALYSIS, vol.33, no.1, pp.46-56, 2021 (SCI-Expanded)

II. **Electrochemical and spectrophotometric detection of malachite green in aqueous system using imprinted sol-gel polymer-capped quantum dots**
Arslan T., Güney S., Güney O.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.100, no.7, pp.808-824, 2020 (SCI-Expanded)

III. **Ratiometric sensor based on imprinted quantum dots-cationic dye nanohybrids for selective sensing of dsDNA**
Güney O.
Analytical Biochemistry, vol.591, pp.113540, 2020 (SCI-Expanded)

IV. **Encapsulation and characterisation of cationic benzo[a]phenoxazines in zeolite HY**
Güney O., Goncalves M. S. T., Fonseca A. M., Soares O. S. G. P., Pereira M. F. R., Neves I. C.
NEW JOURNAL OF CHEMISTRY, vol.43, no.39, pp.15785-15792, 2019 (SCI-Expanded)

V. **Monitoring the Instant Creation of a New Fluorescent Signal for Evaluation of DNA Conformation Based on Intercalation Complex**
Uzumcu A. T., Güney O., Okay O.
JOURNAL OF FLUORESCENCE, vol.28, pp.1325-1332, 2018 (SCI-Expanded)

VI. **Highly Stretchable DNA/Clay Hydrogels with Self-Healing Ability**
Uzumcu A. T., Güney O., Okay O.
ACS APPLIED MATERIALS & INTERFACES, vol.10, pp.8296-8306, 2018 (SCI-Expanded)

VII. **Development of an Electrochemical Sensor Based on Covalent Molecular Imprinting for Selective Determination of Bisphenol-A**
Güney S., Güney O.
ELECTROANALYSIS, vol.29, no.11, pp.2579-2590, 2017 (SCI-Expanded)

VIII. **Synthesis and characterization of quinoline-derivated fluorescent sol-gel-imprinted polymer as a chemosensor for sensing of uranyl ion**
Gueney O., ATCAKAN E.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.81, no.2, pp.534-543, 2017 (SCI-Expanded)

IX. **Nanocomposite DNA hydrogels with temperature sensitivity**
Uzumcu A. T., Güney O., Okay O.
POLYMER, vol.100, pp.169-178, 2016 (SCI-Expanded)

X. **Selective recognition of palladium based on functional mono phthalocyanines; synthesis, characterization and photophysical properties**
Yarasir M. N., Aytekin A., Kandaz M., Güney O.
JOURNAL OF LUMINESCENCE, vol.177, pp.342-348, 2016 (SCI-Expanded)

XI. **A novel electrochemical sensor for selective determination of uranyl ion based on imprinted polymer sol-gel modified carbon paste electrode**
Güney S., Güney O.
SENSORS AND ACTUATORS B-CHEMICAL, vol.231, pp.45-53, 2016 (SCI-Expanded)

XII. **Mercuric ion-induced signaling by a dual turn-off/on switching of a quinoline-based fluorescent sensor**
Kahraman U., Güney O.
JOURNAL OF LUMINESCENCE, vol.170, pp.155-160, 2016 (SCI-Expanded)

XIII. **Stimuli-responsive molecularly imprinted hybrid polymer gel as a potential system for controlled release**
Güney O., SERIN E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.4, 2016 (SCI-Expanded)

XIV. **Development and characterization of ion-imprinted sol-gel-derived fluorescent film for selective recognition of mercury(II) ion**
Karagoz F., Güney O.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.76, no.2, pp.349-357, 2015 (SCI-Expanded)

XV. **Elucidation of Selectivity for Uranyl Ions with an ICT Organosilane-Modified Fluorescent Receptor**
Karagoz F., Güney O.
JOURNAL OF FLUORESCENCE, vol.24, no.3, pp.727-733, 2014 (SCI-Expanded)

XVI. **Acridine-derivated receptor for selective mercury binding based on chelation-enhanced fluorescence effect**
Karagoz F., Güney O., Kandaz M., Bilgicli A. T.
JOURNAL OF LUMINESCENCE, vol.132, no.10, pp.2736-2740, 2012 (SCI-Expanded)

XVII. **Synthesis and photophysical properties of metallophthalocyanines substituted with a benzofuran based fluoroprobe**
Yarasir M. N., Kandaz M., Güney O., SALİH B.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.93, pp.379-383, 2012 (SCI-Expanded)

Supported Projects

Güney O., Alaca S., Project Supported by Higher Education Institutions, Duyarlı moleküler imprint hibrit soljellerin sentezi ve Donepezil kontrollü salınımında kullanılması, 2017 - 2018

Güney O., Project Supported by Higher Education Institutions, Uranil iyonunun seçici algılanması için floresan iyon-imprint polielektrolit hidrojel, 2016 - 2018

Güney O., Project Supported by Higher Education Institutions, METAL İYONLAR İÇİN İYON-İMPRİNT SOL-JEL TÜREVLİ FLORESAN SENSÖRLERİN GELİŞTİRİLMESİ VE KARAKTERİZE EDİLMESİ, 2015 - 2018

Güney O., Project Supported by Higher Education Institutions, İyon-İmprit Sol-Jel Film Sentezi ve optik Sensör Olarak Kullanımı, 2014 - 2018

Güney O., Project Supported by Higher Education Institutions, Metal İyonların Seçici Optik Algılanması İçin Floresans Malzemelerin Tasarımı, 2014 - 2018

Güney O., Project Supported by Higher Education Institutions, Metal İyonları İle Koordinasyon Sonucunda Arttırılmış Sinyal Cevabına Dayalı Floresans Sensörler, 2012 - 2018

Güney O., Project Supported by Higher Education Institutions, METAL İYONU BELİRLENMESİNDE KİMYASAL SENSÖRLER OLARAK İMPRİT EDİLMİŞ FLORESANS POLİMERLER, 2010 - 2018

Güney O., Project Supported by Higher Education Institutions, Gümüş İyonu İçin Floresan Kimyasal Sensor Olarak Benzofuran Sübstituent İçerikli Yeni Ftalosiyanin, 2008 - 2018

Güney O., Project Supported by Higher Education Institutions, Floresan Nanoparçacık ile Doplanmış Hibrit Sol-Jellerin Sensör Uygulamaları, 2016 - 2016

Güney O., Project Supported by Higher Education Institutions, Yeni Floresans Molekül Sentezi ve Ağır Metal İyonlarının Seçici Belirlenmesi, 2014 - 2015

Güney O., Project Supported by Higher Education Institutions, Hedef Kimyasala Duyarlı Jellerin Sentezi ve Kimyasal Sensörlerde Kullanımı, 2012 - 2015

Güney O., Project Supported by Higher Education Institutions, Kimyasal Sensörlerde Tanıma Elemanları Olarak İyon-İmprint Polimerlerin Sentezi, 2008 - 2009

Güney O., Project Supported by Higher Education Institutions, Moleküler İmpriting Esaslı Kimyasal Sensörlerin Geliştirilmesi, 2005 - 2007

Metrics

Publication: 51
Citation (WoS): 617
Citation (Scopus): 593
H-Index (WoS): 14
H-Index (Scopus): 14

Congress and Symposium Activities

The Synthesis and Characterization of Ormosil Containing Phthalocyanines with Catalytic Property, Working Group, Poznan, Poland, 2016
The Influence of Parameters on Gelation Time of Organically Modify Silica Impregnated with Phthalocyanines, Working Group, Poznan, Poland, 2016