

Res. Asst. Özgür Yavuz

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International Researcher IDs

ORCID: 0000-0002-0660-7474

Publons / Web Of Science ResearcherID: AAS-9654-2020

ScopusID: 57202132647

Yoksis Researcher ID: 256256

Education Information

Doctorate, Istanbul Technical University, Fen-Edebiyat, Kimya, Turkey 2018 - Continues

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2014 - 2018

Undergraduate, Istanbul Technical University, Fen-Edebiyat, Kimya, Turkey 2009 - 2014

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, Unprecedented octahedral crystal structure of one dimensional coordination polymer crown fused zinc-phthalocyanine and its trace amount Be²⁺ detection by double channel sensor, Istanbul Technical University, Fen Bilimleri Enstitüsü, chemistry, 2018

Research Areas

Chemistry, Inorganic Chemistry, Transition Metals, Inorganic Ring Compounds, Solid-State Chemistry, Organometallic Chemistry, Novel Ligands, Natural Sciences

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Fen Edebiyat, Kimya, 2017 - Continues

Research Assistant, Bursa Technical University, Doğa Bilimleri, Mimarlık Ve Mühendislik Fakültesi, Kimya, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of a new near-infrared, spectrophotometric, and colorimetric probe based on phthalocyanine containing mercaptoquinoline unit for discriminative and highly sensitive detection of Ag⁺, Cu²⁺, and Hg²⁺ ions**
Cetin D., Yavuz Ö., Alçay Y., Semih Yildirim M., Kaplan M., Arıbuğa H., Özdemir E., Ertugral U., Yılmaz İ.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.297, 2023 (SCI-Expanded)
- II. **Colorimetric and near-infrared spectrophotometric monitoring of bisulfite using glyoxal modified chromenylum-cyanine chemosensor: Smartphone and paper strip applications for on-site food and beverages control**
Özdemir E. T., Alçay Y., Yavuz Ö., Yildirim M. S., Arıbuğa H., Ertugral U., Kaya K., Yılmaz İ.
Talanta, vol.261, 2023 (SCI-Expanded)
- III. **A methionine biomolecule-modified chromenylum-cyanine fluorescent probe for the analysis of Hg²⁺ in the environment and living cells**
Alçay Y., Özdemir E. T., Yildirim M. S., Ertugral U., Yavuz Ö., Arıbuğa H., Özkılıç Y., Şenyurt Tuzun N., Özdebak Sert A. B., Kök F. N., et al.
Talanta, vol.259, 2023 (SCI-Expanded)
- IV. **A new Fe³⁺-selective, sensitive, and dual-channel turn-on probe based on rhodamine carrying thiophenecarboxaldehyde: Smartphone application and imaging in living cells**
Arıbuğa H., Ertugral U., Alçay Y., Yavuz Ö., Yildirim M. S., Özdemir E. T., Kaya K., Sert A. B. O., Kök F. N., Tüzün N., et al.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.287, 2023 (SCI-Expanded)
- V. **A new highly Selective, sensitive and NIR spectrophotometric probe based on A2B2-Type of unsymmetrical phthalocyanine for hazardous Be²⁺ recognition**
Yavuz Ö., Sezen M., Alçay Y., Semih Yildirim M., Arıbuğa H., Özdemir E. T., Ertugral U., Özkılıç Y., Şenyurt Tuzun N., Yılmaz İ.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.284, 2023 (SCI-Expanded)
- VI. **Construction of anthraquinone functional zinc phthalocyanine sensor platform for ultra-trace amount of water determination in tetrahydrofuran and N,N-Dimethylformamide**
Yildirim M. S., Alçay Y., Yavuz Ö., Atasen S. K., Mermer Z., Arıbuğa H., Yılmaz İ.
ANALYTICA CHIMICA ACTA, vol.1198, 2022 (SCI-Expanded)
- VII. **Design, synthesis and use of phthalocyanines as a new class of visible-light photoinitiators for free-radical and cationic polymerizations**
Breloy L., Yavuz Ö., Yılmaz İ., Yağcı Y., Versace D.
POLYMER CHEMISTRY, vol.12, pp.4291-4316, 2021 (SCI-Expanded)
- VIII. **Architecture of multi-channel and easy-to-make sensors for selective and sensitive Hg²⁺ ion recognition through Hg-C and Hg-N bonds of naphthoquinone-aniline/pyrene union**
Mermer Z., Yavuz Ö., Atasen S. K., Alçay Y., Yılmaz İ.
JOURNAL OF HAZARDOUS MATERIALS, vol.410, 2021 (SCI-Expanded)
- IX. **A new perspective on the beryllium sensor platform: Low symmetry phthalocyanine-based molecular design and ultra trace amount Be²⁺ ion recognition in aqueous media**
Yavuz Ö., Sezen M., Alçay Y., Yildirim M. S., Kaya K., Özkılıç Y., Tüzün N., Yılmaz İ.
SENSORS AND ACTUATORS B-CHEMICAL, vol.329, 2021 (SCI-Expanded)
- X. **Beryllium ion sensing through the ion pair formation between the electrochemically reduced ferrocenyl naphthoquinone radicals and Be²⁺ ions**
Atasen S. K., Alçay Y., Yavuz Ö., Yücel B., Yılmaz İ.
JOURNAL OF CHEMICAL SCIENCES, vol.131, no.5, 2019 (SCI-Expanded)
- XI. **Superior Sensor for Be²⁺ Ion Recognition via the Unprecedented Octahedral Crystal Structure of a One-Dimensional Coordination Polymer of Crown Fused Zinc Phthalocyanine**
Yavuz Ö., Alçay Y., Kaya K., Sezen M., Atasen S. K., Yildirim M. S., Özkılıç Y., Tüzün N., Yılmaz İ.
INORGANIC CHEMISTRY, vol.58, no.1, pp.909-923, 2019 (SCI-Expanded)
- XII. **New ferrocenyl naphthoquinone fused crown ether chemosensors: Highly selective, kinetically and regio controlled colorimetric, beryllium ion recognition**
Alçay Y., Yavuz Ö., Gelir A., ATASEN S. K., KARAOĞLU K., Yücel B., TUZUN N., Yılmaz İ.

Supported Projects

Yılmaz İ., Tüzün N., Alçay Y., Yavuz Ö., Arıbuğa H., Kılıç A., Özdemir E., Ertuğral U., Basan V., KARAOĞLU K., et al., Project Supported by Higher Education Institutions, Çevre ve Biyolojik Ortamlarda Hg²⁺ İyonunun Seçici Hassas ve Kolay Analizi İçin Farklı Reseptörler İçeren ve Karbonil Fonksiyonlu Kromelinyum-Siyanın Tabanlı Yeni Probların Geliştirilmesi, 2023 - Continues

Yılmaz İ., Yavuz Ö., Project Supported by Higher Education Institutions, H₂S tayini için Yakın Kırmızı Bölgede Absorpsiyon ve Emisyon Yapan Ftalosiyanın Tabanlı Suda Çözünür Yeni Bir Kimyasal Sensörün Geliştirilmesi, 2022 - Continues

Yılmaz İ., Alçay Y., Yavuz Ö., Yıldırım M. S., Arıbuğa H., Project Supported by Higher Education Institutions, Seçici ve Hassas Fe³ Tayini İçin Tiyofen Karbaldehit İle Türevlendirilmiş Rodamin Tabanlı Yeni Bir Sensörün Geliştirilmesi, 2021 - 2023

Yılmaz İ., TUBITAK Project, Eser Miktarda Be² İyonunun Seçici ve Hassas Şekilde Tayin Edilmesi İçin Spektrofotometrik ve Voltametrik Titrasyon Ölçüm Yöntemlerine Dayanan Ftalosiyanın Tabanlı Kimyasal Sensör Tasarımı, 2017 - 2020

Scientific Research / Working Group Memberships

Metal-Organik Malzemeler ve Spektroelektrokimya Araştırma Laboratuvarı, İSTANBUL TEKNİK ÜNİVERSİTESİ, Turkey, 2014 - Continues

Metrics

Publication: 14

Citation (WoS): 55

Citation (Scopus): 129

H-Index (WoS): 5

H-Index (Scopus): 7