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Research Areas

Biotechnology, Analytical Chemistry

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 2022 - Continues
Lecturer, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2018 - 2022

Research Assistant, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2014 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Novel Salicylic Acid Modified Magnetic Nanoparticles Based Ligandless Extraction for the Accurate Determination of Bismuth in Urine Samples by Flame Atomic Absorption Spectrophotometry**
Saylan M., Karlidag N. E. , Toprak M., Tekin Z., Balcik U., ÖZTÜRK ER E., BAKIRDERE S.
ANALYTICAL LETTERS, vol.55, no.11, pp.1719-1730, 2022 (Journal Indexed in SCI)
- II. **Serum Levels of Selected Elements in Patients with Beta Thalassemia Major**
Sahin A., ÖZTÜRK ER E., ÖZ E., Yildirmak Z. Y. , BAKIRDERE S.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.200, no.4, pp.1502-1507, 2022 (Journal Indexed in SCI)
- III. **Magnetic Nanoparticles Based Solid Phase Extraction Methods for the Determination of Trace Elements**
ÖZTÜRK ER E., DALGIÇ BOZYİĞİT G., Buyukpinar C., BAKIRDERE S.
CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY, vol.52, no.2, pp.231-249, 2022 (Journal Indexed in SCI)
- IV. **Accurate determination of amino acids by quadruple isotope dilution-reverse phase liquid Chromatography-Tandem mass spectrometry after derivatization with 2-Naphthoyl chloride**
ÖZTÜRK ER E., ERARPAT S., Bodur S., GÜNKARA Ö. T. , ÖZBEK B., BAKIRDERE S.
JOURNAL OF CHROMATOGRAPHY A, vol.1667, 2022 (Journal Indexed in SCI)
- V. **Preconcentration of tellurium using magnetic hydrogel-assisted dispersive solid-phase extraction and its determination by slotted quartz tube-flame atomic absorption spectrophotometry**
Demir C., ÖZTÜRK ER E., Kartoglu B., Atsever N., YAĞCI Ö., Oner M., BAKIRDERE S.
CHEMICAL PAPERS, vol.75, no.8, pp.4261-4267, 2021 (Journal Indexed in SCI)
- VI. **Sodium, Magnesium, Calcium, Manganese, Iron, Copper, and Zinc in Serums of Beta Thalassemia Major Patients**
Sahin A., ÖZTÜRK ER E., ÖZ E., Yildirmak Z. Y. , BAKIRDERE S.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.3, pp.888-894, 2021 (Journal Indexed in SCI)
- VII. **A Simple and Efficient Extraction Method for the Preconcentration of Copper in Tap Water and Linden Tea Samples Prior to FAAS Measurement**
Demir C., Oner M., Bodur S., ÖZTÜRK ER E., BAKIRDERE S.

CHEMISTRYSELECT, vol.6, no.12, pp.2906-2912, 2021 (Journal Indexed in SCI)

- VIII. **Determination of seventeen free amino acids in human urine and plasma samples using quadruple isotope dilution mass spectrometry combined with hydrophilic interaction liquid chromatography Tandem mass spectrometry**
ÖZTÜRK ER E., ÖZBEK B., BAKIRDERE S.
JOURNAL OF CHROMATOGRAPHY A, vol.1641, 2021 (Journal Indexed in SCI)
- IX. **Accurate, sensitive determination of omega-6 and omega-3 polyunsaturated fatty acids in human plasma, urine samples**
ÖZTÜRK ER E., Sahin A., BAKIRDERE S.
BIOMEDICAL CHROMATOGRAPHY, vol.34, no.12, 2020 (Journal Indexed in SCI)
- X. **Chitosan magnetic hydrogel based ligandless magnetic solid phase extraction for the accurate and sensitive determination of thallium by slotted-quartz tube flame atomic absorption spectrophotometry with matrix matching calibration strategy**
Maltepe E., ÖZTÜRK ER E., BAKIRDERE S.
MICROCHEMICAL JOURNAL, vol.158, 2020 (Journal Indexed in SCI)
- XI. **An accurate and sensitive analytical method for the simultaneous determination of glycine, methionine and homocysteine in biological matrices by matrix matching strategy and LC? quadrupole-time-of-flight-MS/MS**
Saylan M., ÖZTÜRK ER E., Tekin Z., BAKIRDERE S.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.239, 2020 (Journal Indexed in SCI)
- XII. **Accurate and Sensitive Analytical Method for the Determination of Cyclanilide in Cotton and Cosmetic Pads at Trace Levels Using the Combination of Vortex Assisted Iron(II,III)/Reduced Graphene Oxide Nanocomposite Based Dispersive Solid Phase Extraction and High Performance Liquid Chromatography (HPLC)**
ERARPAT S., Maltepe E., ÖZTÜRK ER E., BAKIRDERE S.
ANALYTICAL LETTERS, vol.53, no.14, pp.2278-2291, 2020 (Journal Indexed in SCI)
- XIII. **Hydride generation-flame atomic absorption spectrometric quantification of trace lead after the extraction by fatty acid functionalized Fe₃O₄ nanoparticles assisted dispersive solid-phase extraction: a sensitive, precise and accurate analytical method**
Akkaya E., ÖZTÜRK ER E., Kasa N. A. , ÇETİN G., KOMESLİ O. T. , BAKIRDERE S.
JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, vol.35, no.5, pp.961-966, 2020 (Journal Indexed in SCI)
- XIV. **Sensitive Determination of Selected Drug Active Compounds in Wastewater Matrices by LC-QTOF-MS/MS after Vortex Assisted Binary Solvents Dispersive Liquid-Liquid Microextraction**
KOÇOĞLU E. S. , SÖZÜDOĞRU O., KOMESLİ O. T. , YILMAZ A. B. , ÖZTÜRK ER E., BAKIRDERE S.
CHEMISTRY LETTERS, vol.49, no.5, pp.546-549, 2020 (Journal Indexed in SCI)
- XV. **Combination of ultrasound-assisted ethyl chloroformate derivatization and switchable solvent liquid-phase microextraction for the sensitive determination of l-methionine in human plasma by GC-MS**
ERARPAT S., Bodur S., ÖZTÜRK ER E., BAKIRDERE S.
JOURNAL OF SEPARATION SCIENCE, vol.43, no.6, pp.1100-1106, 2020 (Journal Indexed in SCI)
- XVI. **A powerful combination of quadruple isotope dilution strategy with dispersive magnetic solid phase extraction for the accurate and precise multi-analyte determination of tadalafil, sildenafil, avanafil and vardenafil in human plasma and urine samples using LC-ESI-Tandem MS**
ÖZTÜRK ER E., Akkaya E., ÖZBEK B., BAKIRDERE S.
MICROCHEMICAL JOURNAL, vol.152, 2020 (Journal Indexed in SCI)
- XVII. **A novel determination method for diuron in seaweed samples: Combination of quadruple isotope dilution strategy with liquid chromatography - quadrupole time of flight - tandem mass spectrometry for superior accuracy and precision**
Tekin Z., ÖZTÜRK ER E., GÜNKARA Ö. T. , BAKIRDERE S.
JOURNAL OF CHROMATOGRAPHY A, vol.1611, 2020 (Journal Indexed in SCI)

- XVIII. **Application of supercritical gel drying method on fabrication of mechanically improved and biologically safe three-component scaffold composed of graphene oxide/chitosan/hydroxyapatite and characterization studies**
Yilmaz P., ÖZTÜRK ER E., BAKIRDERE S., Ulgen K., ÖZBEK B.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.8, no.6, pp.5201-5216, 2019 (Journal Indexed in SCI)
- XIX. **Determination of glycine in body fluids at trace levels using the combination of quadrupole isotope dilution strategy and Liquid Chromatography-Quadrupole Time of Flight-Tandem Mass Spectrometry**
Tekin Z., ÖZTÜRK ER E., BAKIRDERE S.
MEASUREMENT, vol.146, pp.606-612, 2019 (Journal Indexed in SCI)
- XX. **Magnetic cobalt particle-assisted solid phase extraction of tellurium prior to its determination by slotted quartz tube-flame atomic absorption spectrophotometry**
Ozdogan N., Kapukiran F., ÖZTÜRK ER E., BAKIRDERE S.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.191, no.6, 2019 (Journal Indexed in SCI)
- XXI. **Development of an analytical method based on citric acid coated magnetite nanoparticles assisted dispersive magnetic solid-phase extraction for the enrichment and extraction of sildenafil, tadalafil, vardenafil and avanafil in human plasma and urine prior to determination by LC-MS/MS**
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- XXII. **Ultrasound-assisted dispersive solid phase extraction based on Fe₃O₄/reduced graphene oxide nanocomposites for the determination of 4-tert octylphenol and atrazine by gas chromatography mass spectrometry**
ÖZTÜRK ER E., ÇAĞLAK A., ENGİN G., BAKIRDERE S.
MICROCHEMICAL JOURNAL, vol.146, pp.423-428, 2019 (Journal Indexed in SCI)
- XXIII. **Accurate and sensitive determination of sildenafil, tadalafil, vardenafil, and avanafil in illicit erectile dysfunction medications and human urine by LC with quadrupole-TOF-MS/MS and their behaviors in simulated gastric conditions**
ÖZTÜRK ER E., ÖZBEK B., BAKIRDERE S.
JOURNAL OF SEPARATION SCIENCE, vol.42, no.2, pp.475-483, 2019 (Journal Indexed in SCI)
- XXIV. **A novel analytical method for the determination of cadmium in sorrel and rocket plants at ultratrace levels: Magnetic chitosan hydrogels based solid phase microextraction-slotted quartz tube-flame atomic absorption spectrophotometry**
ÖZTÜRK ER E., Maltepe E., BAKIRDERE S.
MICROCHEMICAL JOURNAL, vol.143, pp.393-399, 2018 (Journal Indexed in SCI)
- XXV. **Simultaneous Determination of Phorate and Oxyfluorfen in Well Water Samples with High Accuracy by GC-MS After Binary Dispersive Liquid-Liquid Microextraction**
Alkan E., Kapukiran F., ÖZTÜRK ER E., Chormey D. S. , KEYF S., Ozdogan N., BAKIRDERE S.
WATER AIR AND SOIL POLLUTION, vol.229, no.9, 2018 (Journal Indexed in SCI)
- XXVI. **A sensitive and selective analytical method for the simultaneous determination of sildenafil and tadalafil in water, energy drinks and sewage sludge matrices by LC-QTOF-MS/MS**
ÖZTÜRK ER E., ÖZBEK B., BAKIRDERE S.
MEASUREMENT, vol.124, pp.64-71, 2018 (Journal Indexed in SCI)
- XXVII. **A novel analytical approach for the determination of parathion methyl in water: quadrupole isotope dilution mass spectrometry-dispersive liquid-liquid microextraction using multivariate optimization**
Chormey D. S. , ÖZTÜRK ER E., ERARPAT S., Ozzeybek G., Ari B., BAKIRDERE S.
ANALYST, vol.143, no.5, pp.1141-1146, 2018 (Journal Indexed in SCI)
- XXVIII. **Trace determination of cobalt in biological fluids based on preconcentration with a new competitive ligand using dispersive liquid-liquid microextraction combined with slotted quartz tube-flame atomic absorption spectrophotometry**
ÖZTÜRK ER E., BAKIRDERE E. G. , Unutkan T., BAKIRDERE S.
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, vol.49, pp.13-18, 2018 (Journal Indexed in SCI)

- XXIX. **Simultaneous determination of niacin and pyridoxine at trace levels by using diode array high-performance liquid chromatography and liquid chromatography with quadrupole time-of-flight tandem mass spectrometry**
Sel S., ÖZTÜRK ER E., BAKIRDERE S.
JOURNAL OF SEPARATION SCIENCE, vol.40, no.24, pp.4740-4746, 2017 (Journal Indexed in SCI)
- XXX. **Production of biologically safe and mechanically improved reduced graphene oxide/hydroxyapatite composites**
ÖZTÜRK ER E., ÖZBEK B., ŞENEL İ.
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Citations

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