

Lect. Elif ÖZTÜRK ER

Personal Information

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği, Turkey 2015 - Continues

Post Graduate, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği, Turkey 2014 - 2015

Under Graduate, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Kimya Mühendisliği, Turkey 2007 - 2012

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, ICPE-9000 Eğitim Sertifikası, Scihmadzu, 2014

Education Management and Planning, HPLC Eğitim Sertifikası, Agilent Technologies, 2014

Education Management and Planning, QTOF LCMS Eğitim Sertifikası, Agilent Technologies, 2014

Education Management and Planning, ICPMS Eğitim Sertifikası, Agilent Technologies, 2014

Dissertations

Post Graduate, REDUCTION OF GRAPHENE OXIDE BY NATURAL PRODUCTS AND PRODUCTION OF REDUCED GRAPHENE OXIDE-HYDROXYAPATITE COMPOSITES, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Kimya Mühendisliği, 2015

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Biomaterials, Chemistry, Analytical Chemistry, Pharmaceutical Analysis, Mass Spectroscopy, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Merkez Laboratuvar, 2014 - Continues

Research Assistant, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği, 2013 - 2014

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 Expanded)
- II. **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**
Şaylan M., Er E., Tekin Z., BAKIRDERE S.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.239, 2020 (Journal Indexed in SCI)
- III. **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, pp.2278-2291, 2020 (Journal Indexed in SCI)
- IV. **Sensitive determination of selected drug active compounds in wastewater matrices by LC-QTOF-MS/MS after vortex assisted binary solvents dispersive liquid-liquid microextraction**
Seda Koçoğlu E. S. , SÖZÜDOĞRU O., KOMESLİ O. T. , YILMAZ A. B. , Er E., BAKIRDERE S.
Chemistry Letters, vol.49, pp.546-549, 2020 (Journal Indexed in SCI Expanded)
- V. **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 E., Bakirdere S.
Journal of Separation Science, vol.43, pp.1100-1106, 2020 (Journal Indexed in SCI Expanded)
- VI. **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 E., Günkara Ö. T. , Bakirdere S.
Journal of Chromatography A, vol.1611, 2020 (Journal Indexed in SCI)
- VII. **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**
Er E., Akkaya E., Özbek B., Bakirdere S.
Microchemical Journal, vol.152, 2020 (Journal Indexed in SCI)
- VIII. **Magnetic Nanoparticles Based Solid Phase Extraction Methods for the Determination of Trace Elements**
ÖZTÜRK ER E., DALGIÇ BOZYİĞİT G., Büyükpınar Ç., BAKIRDERE S.
Critical Reviews in Analytical Chemistry, 2020 (Journal Indexed in SCI)
- IX. **Sodium, Magnesium, Calcium, Manganese, Iron, Copper, and Zinc in Serums of Beta Thalassemia Major Patients**
Şahin A., Er E., Öz E., Yıldırım Z. Y. , Bakirdere S.
Biological Trace Element Research, 2020 (Journal Indexed in SCI)
- X. **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**
Yılmaz P., Öztürk Er E., Bakirdere S., Ülgen K., Özbek B.
Journal of Materials Research and Technology, vol.8, pp.5201-5216, 2019 (Journal Indexed in SCI)
- XI. **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., Er E. O. , BAKIRDERE S.
MEASUREMENT, vol.146, pp.606-612, 2019 (Journal Indexed in SCI)
- XII. **Magnetic cobalt particle–assisted solid phase extraction of tellurium prior to its determination by slotted quartz tube–flame atomic absorption spectrophotometry**
Özdoğan N., Kapukiran F., ÖZTÜRK ER E., BAKIRDERE S.
Environmental Monitoring and Assessment, vol.191, 2019 (Journal Indexed in SCI)
- XIII. **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**
Er E., Akkaya E., Özbek B., Bakirdere S.
Microchemical Journal, vol.147, pp.269-276, 2019 (Journal Indexed in SCI)
- XIV. **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**
Er E., ÇAĞLAK A., Engin G., BAKIRDERE S.
MICROCHEMICAL JOURNAL, vol.146, pp.423-428, 2019 (Journal Indexed in SCI)
- XV. **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**
Er E., Özbek B., Bakirdere S.
JOURNAL OF SEPARATION SCIENCE, vol.42, pp.475-483, 2019 (Journal Indexed in SCI)
- XVI. **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**
Er E., Maltepe E., BAKIRDERE S.
MICROCHEMICAL JOURNAL, vol.143, pp.393-399, 2018 (Journal Indexed in SCI)
- XVII. **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., Er E., Chormey D. S. , Keyf S., Ozdogan N., Bakirdere S.
WATER AIR AND SOIL POLLUTION, vol.229, 2018 (Journal Indexed in SCI)
- XVIII. **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**
Er E., Özbek B., Bakirdere S.
MEASUREMENT, vol.124, pp.64-71, 2018 (Journal Indexed in SCI)
- XIX. **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. , Er E., Erarpat S., Özzeybek G., Arı B., Bakirdere S.
ANALYST, vol.143, pp.1141-1146, 2018 (Journal Indexed in SCI)
- XX. **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**
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)
- XXI. **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., Er E., Bakirdere S.
JOURNAL OF SEPARATION SCIENCE, vol.40, pp.4740-4746, 2017 (Journal Indexed in SCI)
- XXII. **Production of biologically safe and mechanically improved reduced graphene oxide/hydroxyapatite composites**
Ozturk E., Özbek B., Şenel İ.

Refereed Congress / Symposium Publications in Proceedings

- I. **Simultaneous Determination of Selected Drug Active Compounds in Wastewater Matrix by Binary Solvent Dispersive Liquid-Liquid Microextraction-LC-QTOF-MS/MS System**
Koçoğlu E. S., Sözüdoğru O., Komesli O. T., Yılmaz A. E., Öztürk Er E., Bakirdere S.
1st INTERNATIONAL CONGRESS on ANALYTICAL and BIOANALYTICAL CHEMISTRY, Antalya, Turkey, 27 March 2019, pp.223
- II. **Determination of Selected PDE-5 Inhibitors in Human Urine by LC-QTOFMS/MS after Citric Acid Coated Magnetic Nanoparticle Assisted Phase Microextraction**
ÖZTÜRK ER E., AKKAYA E., ÖZBEK B., BAKIRDERE S.
11th Aegean Analytical Chemistry Days (AACD 2018), Crete, Greece, 25 September 2018, pp.48
- III. **A green method kit for forensic drug analysis, to solve drug-induced crimes**
ANILANMERT B., ÇAVUŞ YONAR F., ÖZTÜRK ER E., YILMAZ PEKÇALIŞKAN E., CENGİZ S.
1th International Balkan Chemistry Congress, Edirne, Turkey, 17 September 2018, pp.43
- IV. **Toxicity Effect Investigation of Graphene Oxide Addition into a Three-Component Scaffold Composed of Hydroxyapatite-Graphene Oxide-Chitosan for Bone Tissue Engineering Applications**
YILMAZ P., ÖZTÜRK ER E., BAKIRDERE S., Ülgen K., ÖZBEK B.
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018, pp.165
- V. **Production and characterization studies of a three-component scaffold composed of hydroxyapatite-graphene oxide-chitosan for bone tissue engineering applications**
YILMAZ P., ÖZTÜRK ER E., BAKIRDERE S., Ülgen K., ÖZBEK B.
23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018
- VI. **Quadrupole Isotope Dilution Mass Spectrometry-Dispersive Liquid-Liquid Microextraction Using Multivariate Optimization: A Novel Analytical Approach for the Determination of Parathion Methyl in Water**
Chormey D. S., ÖZTÜRK ER E., ERARPAT S., Özzeybek G., Arı B., BAKIRDERE S.
8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, İstanbul, Turkey, 09 May 2018, pp.41
- VII. **Simultaneous Determination of Niacin and Pyridoxine at Trace Levels by Using HPLC and LC-QTOF-MS/MS**
Sel S., ÖZTÜRK ER E., TURAK F., BAKIRDERE S.
7th International IUPAC Conference on Green Chemistry, Moskova, Russia, 02 October 2017, pp.56
- VIII. **A Sensitive and Selective Method For Simultaneous Determination of Sildenafil and Tadalafil in Tap Water and Sewage Sludge Samples by LC-QTOF-MS/MS**
ÖZTÜRK ER E., BAKIRDERE S., ÖZBEK B.
7th International IUPAC Conference on Green Chemistry, Moscow, Russia, 02 October 2017, pp.49
- IX. **Production of green reduced graphene oxide-hydroxyapatite composites**
ÖZTÜRK E., ÖZBEK B., ZAMAN A. C.
10th European Congress of Chemical Engineering (ECCE10), Nice, France, 27 September 2015, pp.1575
- X. **Bio-reduction of Graphene Oxide by Natural Products**
ÖZTÜRK E., ŞİMŞEK S., ÖZBEK B.
Nanotech France 2015 International Conference, Paris, France, 15 June 2015, pp.9

Supported Projects

ÖZBEK B., ÖZTÜRK ER E., YILMAZ P., BAKIRDERE S., Project Supported by Higher Education Institutions, Kemik Doku

Mühendisliği Uygulamalarında Kullanılacak HidroksiapatitGrafen OksitKitosan Doku İskelesinin Süper Kritik Jel Kurutma Tekniği Kullanılarak Üretimi ve Karakterizasyonu, 2018 - 2020

ÇETİN G., BAKIRDERE S., Akkaya E., ÖZTÜRK ER E., Kasa N. A. , KOMESLİ O. T. , Project Supported by Higher Education Institutions, Kurşunun Stearik Asit Kaplı Demir Manyetik Nanopartiküller ile Ekstraksiyonu/Önderiştirilmesi Sonrası HO-AAS Sisteminde Eser Seviyelerde Tayini, 2018 - 2019

ÖZTÜRK ER E., Project Supported by Other Official Institutions, Zaleplon için QTOFLCMS Yöntemiyle Kolada Hızlı Ve Doğrudan Analiz Yöntemi Geliştirilmesi, 2017 - 2017

ÖZTÜRK ER E., Project Supported by Higher Education Institutions, REDUCTION OF GRAPHENE OXIDE BY NATURAL PRODUCTS AND PRODUCTION OF REDUCED GRAPHENE OXIDE-HYDROXYAPATITE COMPOSITES, 2015 - 2016

Scientific Refereeing

Bioactive Materials, Other Indexed Journal, March 2017

Invited Congress and Symposium Activities

11th Aegean Analytical Chemistry Days, Attendee, Hania, Greece, 2018

7 th International IUPAC Conference on Green Chemistry, Attendee, Moscow, Russia, 2017

10th European Congress on Chemical Engineering, Attendee, Nice, France, 2015

NANOTECH FRANCE 2015, Attendee, Paris, France, 2015

Citations

Total Citations (WOS):70

h-index (WOS):6

Scholarships

Genel Doktora Burs Programı, TUBITAK, 2016 - Continues