

Lect. PhD Gamze DALGIÇ BOZYİĞİT

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Publons / Web Of Science ResearcherID: ABA-1557-2020

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Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, -, Turkey 2013 - Continues

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği, Turkey 2011 - 2013

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, Parasetamol içeren atksularda kirletici parametrelerin gideriminde ileri oksidasyon yöntemlerinin uygulanması, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Çevre Mühendisliği, 2013

Research Areas

Environmental Engineering, Waste Water Collection and Treatment, Water Pollution and Control, Nanomaterials, Chromatographic Analysis

Academic Titles / Tasks

Lecturer, Yıldız Technical University, Rectorate, Rectorate, 2019 - Continues

Research Assistant, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği, 2012 - 2019

Research Assistant, Abdullah Gul University, Mühendislik Fakültesi, Çevre Mühendisliği, 2012 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of a novel treatment strategy for the removal of cadmium from wastewater samples using poly(vinyl alcohol)-based magnetic hydrogel beads**
Karlıdağ N. E., Göver T., Er E. Ö., DALGIÇ BOZYIĞIT G., TURAK F., BAKIRDERE S.
Journal of Nanoparticle Research, vol.26, no.6, 2024 (SCI-Expanded)
- II. **Microwave-Assisted Hydrothermal Synthesis of Zinc-tin Based Nanoflower for the Adsorptive Removal of Cadmium from Synthetic Wastewater**
Toprak M., YILDIZ O. B., Zaman B. T., DALGIÇ BOZYIĞIT G., Temuge İ. D., ÇETİN G., BAKIRDERE S.
Water, Air, and Soil Pollution, vol.235, no.5, 2024 (SCI-Expanded)
- III. **Implementation of simple and effective fine droplet formation-based spray-assisted liquid phase microextraction for the simultaneous determination of twenty-nine endocrine disruptor compounds and pesticides in rock, soil, water, moss, and feces samples from antarctica using gas chromatography-mass spectrometry**
Zaman B. T., Bozyiğit G., Şaylan M., Koçoğlu E. S., Kartoğlu B., Aydın E. S., Girgin A., Borahan T., Oflu S., Kılınç Y., et al.
Environmental Science and Pollution Research, vol.31, no.7, pp.10920-10933, 2024 (SCI-Expanded)
- IV. **Removal of two antidepressant active pharmaceutical ingredients from hospital wastewater by polystyrene-coated magnetite nanoparticles-assisted batch adsorption process**
DALGIÇ BOZYIĞIT G., Zaman B. T., ÖZDEMİR O. K., Kılınç Y., Chormey D. S., BAKIRDERE S., ENGİN G.
Environmental Monitoring and Assessment, vol.196, no.1, 2024 (SCI-Expanded)
- V. **Analytical application of flower-shaped nickel nanomaterial for the preconcentration of manganese in domestic wastewater samples**
Aydın E. S., Zaman B. T., DALGIÇ BOZYIĞIT G., BAKIRDERE S.
Environmental Monitoring and Assessment, vol.195, no.11, 2023 (SCI-Expanded)
- VI. **T-cut slotted quartz tube-atom trap strategy for the on-line preconcentration of thallium in well water samples**
Bombom M., Zaman B. T., DALGIÇ BOZYIĞIT G., Şaylan M., Bayraktar A., ARVAS B., YOLAÇAN Ç., BAKIRDERE S.
Measurement: Journal of the International Measurement Confederation, vol.220, 2023 (SCI-Expanded)
- VII. **Polystyrene-coated magnetic nanoparticles based dispersive solid phase extraction for the determination of cadmium in cigarette ash prior to slotted quartz tube flame atomic absorption spectrometry system**
DALGIÇ BOZYIĞIT G., Kilinc Y., Zaman B. T., Chormey D. S., BAKIRDERE S.
ANALYTICAL SCIENCES, vol.38, no.6, pp.843-849, 2022 (SCI-Expanded)
- VIII. **Polystyrene-Coated Magnetite Nanoparticles Based Dispersive Micro-Solid Phase Extraction of Active Pharmaceutical Ingredients of Antidepressant Drugs and Determination by GC-MS**
DALGIÇ BOZYIĞIT G., Zaman B. T., ÖZDEMİR O. K., Kilinc Y., Chormey D. S., ENGİN G., BAKIRDERE S.
CHEMISTRYSELECT, vol.7, no.10, 2022 (SCI-Expanded)
- IX. **Trace level determination of eleven nervous system-active pharmaceutical ingredients by switchable solvent-based liquid-phase microextraction and gas chromatography-mass spectrometry with matrix matching calibration strategy**
DALGIÇ BOZYIĞIT G., Ayyildiz M. F., Chormey D. S., ENGİN G., BAKIRDERE S.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.194, no.2, 2022 (SCI-Expanded)
- X. **Magnetic Nanoparticles Based Solid Phase Extraction Methods for the Determination of Trace Elements**
ÖZTÜRK ER E., DALGIÇ BOZYIĞIT G., Büyükpınar Ç., BAKIRDERE S.
Critical Reviews in Analytical Chemistry, vol.52, no.2, pp.231-249, 2022 (SCI-Expanded)
- XI. **Removal of selected pesticides, alkylphenols, hormones and bisphenol A from domestic wastewater by electrooxidation process**
Bozyigit G., Ayyildiz M. F., Chormey D. S., Turan N. B., Kapukiran F., Engin G., BAKIRDERE S.
WATER SCIENCE AND TECHNOLOGY, vol.85, pp.220-228, 2022 (SCI-Expanded)
- XII. **Surface modified iron magnetic nanoparticles assisted Fenton digestion and extraction method for cadmium determination**

Ayyildiz M. F., Saylan M., DALGIÇ BOZYİĞİT G., Chormey D. S., ÖZDEMİR O. K., BÜYÜKPINAR Ç., BAKIRDERE S.
ANALYTICAL BIOCHEMISTRY, vol.629, 2021 (SCI-Expanded)

- XIII. **Accurate Quantification of Nervous System Drugs in Aqueous Samples at Trace Levels by Binary Solvent Dispersive Liquid-Liquid Microextraction-Gas Chromatography Mass Spectrometry**
Dalgic Bozyigit G., Firat Ayyildiz M., Selali Chormey D., Onkal Engin G., Bakirdere S.
ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY, vol.40, no.6, pp.1570-1575, 2021 (SCI-Expanded)
- XIV. **Combination of Slotted Quartz Tube Flame Atomic Absorption Spectrometry and Dispersive Liquid-Liquid Microextraction for the Trace Determination of Silver in Electroplating Rinse Bath**
Terzioğlu D., DALGIÇ BOZYİĞİT G., Firat Ayyildiz M., Chormey D. S., BAKIRDERE S.
ANALYTICAL LETTERS, vol.54, no.5, pp.761-771, 2021 (SCI-Expanded)
- XV. **Dispersive Liquid-Liquid Microextraction Based Preconcentration of Selected Pesticides and Escitalopram Oxalate, Haloperidol, and Olanzapine from Wastewater Samples Prior to Determination by GC-MS**
DALGIÇ BOZYİĞİT G., Ayyildiz M. F., Chormey D. S., ENGİN G., BAKIRDERE S.
JOURNAL OF AOAC INTERNATIONAL, vol.104, no.1, pp.91-97, 2021 (SCI-Expanded)
- XVI. **A sensitive determination method for trace bisphenol A in bottled water and wastewater samples: Binary solvent liquid phase microextraction-quadrupole isotope dilution-gas chromatography-mass spectrometry**
Bodur S., Erarpat S., Dalgıç Bozyiğit G., Selali Chormey D., Öz E., Özdoğan N., Bakirdere S.
Microchemical Journal, vol.159, 2020 (SCI-Expanded)
- XVII. **Assessment of different isotope dilution strategies and their combination with switchable solvent-based liquid phase microextraction prior to the quantification of bisphenol A at trace levels via GC-MS**
Bodur S., ERARPAT S., Chormey D. S., Bozyigit G., ÖZ E., Ozdogan N., BAKIRDERE S.
NEW JOURNAL OF CHEMISTRY, vol.44, no.32, pp.13685-13691, 2020 (SCI-Expanded)
- XVIII. **Development of a sensitive and accurate method for the simultaneous determination of selected insecticides and herbicide in tap water and wastewater samples using vortex-assisted switchable solvent-based liquid-phase microextraction prior to determination by gas chromatography-mass spectrometry**
Bozyiğit G., Ayyıldız M. F., Chormey D. S., Engin G., Bakirdere S.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.5, 2020 (SCI-Expanded)
- XIX. **Binary dispersive liquid-liquid microextraction strategy for accurate and precise determination of micropollutants in lake, well and wastewater matrices**
Sarı Erkan H., Chormey D. S., Çağlak A., Dalgıç Bozyiğit G., Maltepe E., Engin G., Bakirdere S.
Bulletin Of Environmental Contamination And Toxicology, vol.103, pp.841-847, 2019 (SCI-Expanded)
- XX. **Simultaneous determination of 4-tert-octylphenol, chlorpyrifos-ethyl and penconazole by GC-MS after sensitive and selective preconcentration with stearic acid coated magnetic nanoparticles**
Akkaya E., Bozyigit G., BAKIRDERE S.
MICROCHEMICAL JOURNAL, vol.146, pp.1190-1194, 2019 (SCI-Expanded)
- XXI. **DETERMINING PHARMACEUTICAL WASTE GENERATION CAPACITY IN ISTANBUL AND THE HABITS RELATING TO PHARMACEUTICAL WASTE DISPOSAL**
TÜRKDOĞAN F. İ., Sonisik T., Dalgic G.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.931-936, 2019 (SCI-Expanded)
- XXII. **Evaluation of the potential genotoxic activity in seawater of Asin Bay, Gulf of Gulluk, Mugla, Aegean coast of Turkey**
Koçak E., Şakar S., Yetilmezsoy K., Bozyigit M., Dalgıç G.
GLOBAL NEST JOURNAL, vol.19, pp.658-665, 2017 (SCI-Expanded)
- XXIII. **Treatment of real paracetamol wastewater by Fenton process**
Dalgıç G., Türkdoğan İ., Yetilmezsoy K., Kıyan E.
Chemical Industry & Chemical Engineering Quarterly, vol.23, no.2, pp.177-186, 2017 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Mikrodalga Destekli Hidrotermal Sentez Yöntemi Elde Edilen Çinko-Kalay Nanoçiçekler Kullanılarak Kesikli Tip Adsorpsiyon Esaslı Giderim Prosedürü ile Sentetik Atık Sudan Kadmiyum Elementinin Uzaklaştırılması**
TOPRAK M., YILDIZ B., ZAMAN B. T., DALGIÇ BOZYİĞİT G., DURUKAN TEMUGE İ., ÇETİN G., BAKIRDERE S.
8. Ulusal Çevre Kongresi, Turkey, 15 December 2023
- II. **VO2@ppy Nanomalzemelerin Mikrodalga Esaslı Hidrotermal Yöntem İle Sentezi Ve Kadmiyum Elementinin Atıksu Matriksinden Gideriminde Kullanılması**
METİN B., ATAKOL A., DALGIÇ BOZYİĞİT G., TURAK F., BAKIRDERE S.
8. Ulusal Çevre Kongresi, Turkey, 15 December 2023
- III. **Simultaneous Determination of 29 Endocrine Disruptor Compounds-Pesticides in Rock, Soil, Water, Moss and Feces Samples from Antarctica Using Simple and Effective Fine Droplet Formation Based Spray Assisted Liquid Phase Microextraction Prior to Gas Chromatography-Mass Spectrometry**
Zaman B. T., Dalgıç Bozyiğit G., Koçoğlu E. S., Kartoğlu B., Aydın E. S., Girgin A., Borahan T., Oflu S., Kılınç Y., Bakırdere S.
4th International Environmental Chemistry (EnviroChem) Congress, Antalya, Turkey, 30 October - 02 November 2022, pp.7
- IV. **Development of a Switchable Solvent Based Liquid Phase Microextraction Method for the Simultaneous Determination of Selected Nervous System – Active Pharmaceutical Ingredients by Gas Chromatography Mass Spectrometry**
Dalgıç Bozyiğit G., Fırat Ayyıldız M., Chormey D. S., Engin G., Bakırdere S.
4th International Environmental Chemistry (EnviroChem) Congress, Antalya, Turkey, 30 October - 02 November 2022, pp.17
- V. **Synthesis of Bismuth Nanoflowers with a Microwave Assisted Hydrothermal Method and Its Application for the Removal of Copper in Tap Water Samples**
Tezgin E., Dalgıç Bozyiğit G., Zaman B. T., Serbest H., Turak F., Bakırdere S.
4th International Environmental Chemistry (EnviroChem) Congress, Antalya, Turkey, 30 October - 02 November 2022, pp.95
- VI. **Sertralin HCl Analitinin Hastane Atık Sularından CdS-Nanoçiçek Esaslı Adsorpsiyon Yöntemiyle Giderilmesi**
Zeytinci N. K., Akbıyık H., Tezgin E., Şaylan M., Dalgıç Bozyiğit G., Zaman B. T., Bakırdere S.
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 7 - 11 September 2022, pp.203
- VII. **Kadmiyumun Polistiren Kaplı Manyetik Nanoparçacık Esaslı Dağıtıcı Katı Faz Ekstraksiyon Sonrası Yarıklı Kuvars Tüp Alevli Atomik Adsorpsiyon Spektrometresi ile Sigara Külü Örneklerinde Eser Seviyelerde Tayini**
Dalgıç Bozyiğit G., Kılınç Y., Zaman B. T., Chormey D. S., Bakırdere S.
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 7 - 11 September 2022, pp.55
- VIII. **Simultaneous Determination of Dioxacarb, Trifluralin, Tefluthrin And Flumetralin in Tap Water and Wastewater Samples by Gas Chromatography Mass Spectrometry after Vortex Assisted Switchable Solvent Based Liquid Phase Microextraction**
Dalgıç Bozyiğit G., Fırat Ayyıldız M., Chormey D. S., Engin G., Bakırdere S.
2nd International Congress on Analytical and Bioanalytical Chemistry (2nd ICABC 2020), Antalya, Turkey, 11 - 14 March 2020, pp.103
- IX. **Enhancing the accuracy and precision in quantifying the pesticides present in complex environmental and food samples by GC-MS using matrix matching calibration and isotopically labeled internal standard**
Dalgıç Bozyiğit G., Fırat Ayyıldız M., Chormey D. S., Engin G., Bakırdere S.
11th Eastern European Young Water Professionals Conference, Praha, Czech Republic, 1 - 05 October 2019, pp.294-301
- X. **Development of simultaneous determination method for selected pharmaceuticals and pesticides in**

wastewater by GC-MS to build up the treatment strategies

Dalgıç Bozyiğit G., Fırat Ayyıldız M., Chormey D. S., Engin G., Bakırdere S.

11th Aegean Analytical Chemistry Days (AACD2018), Hania, Greece, 25 - 29 September 2018, pp.98

- XI. **Utilization of Slop Oil Generated from the Production of Engine Oils in the Composition of Calcium Soap Greases**
Çapanoğlu C., Dalgıç Bozyiğit G., Esenoğlu Z., Kavut K., Kurur H., Hüyüktepe Ş., Kaya Ç.
Eurasia 2018 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2018, pp.809-811
- XII. **The Hydrothermal Treatment of Waste Semi-Synthetic Metal Cutting Fluid in Supercritical Water**
Dalgıç Bozyiğit G., Çapanoğlu C., Akgün M.
International Advanced Researches & Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.2592-2595
- XIII. **Determination of Potential Genotoxic Activity of Gulluk Gulf with SOS Chromotest**
Şakar S., Kıyan E., Dalgıç Bozyiğit G., Bozyiğit M.
9th Eastern European Young Water Professionals Conference, Budapest, Hungary, 24 - 27 May 2017, pp.115-116
- XIV. **Toxicity Determination of Poultry Slaughterhouse Wastewater in Receiving Environment**
Türkdoğan F. İ., Dalgıç Bozyiğit G., Kıyan E., Yetilmezsoy K.
EurAsia 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016, pp.689-692
- XV. **The Hydrothermal Treatment of Olive Mill Wastewater in Supercritical Water over Ni/Al₂O₃ Catalysts**
Selçuk Ö., Dalgıç Bozyiğit G., Akgün M.
EurAsia 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016, pp.1026-1029
- XVI. **Removal of Highyl Polluted Wastewater by Electrocoagulation**
Türkdoğan F. İ., Dalgıç G., İlhan F.
1st International Conference on Environmental Science and Technology, Sarajevo, Bosnia And Herzegovina, 9 - 13 September 2015, pp.50-54
- XVII. **Monitoring The Removal Efficiency of The Herbicide Aclonifen By Soil Bacteria**
Ergüven G. Ö., Bayhan H., İkizoğlu B., Kuzu S. L., Kıyan E., Dalgıç Bozyiğit G., Şakar S.
MOLCHEM 2014- International Symposium of Molecular Chemistry, İstanbul, Turkey, 18 - 19 December 2014, pp.94
- XVIII. **Investigation of Increase in Antibiotic Concentrations Introduced in Water Bodies and Effects on Environment**
Türkdoğan F. İ., İkizoğlu B., Dalgıç Bozyiğit G., Yetilmezsoy K., Diler N.
Eurasia 2014 Waste Management Symposium, İstanbul, Turkey, 28 - 30 April 2014, pp.578-585
- XIX. **Investigation of Potential Genotoxic Activity for the Pharmaceutical Wastewater Containing Paracetamol**
Kıyan E., Dalgıç Bozyiğit G., Türkdoğan F. İ., Yetilmezsoy K., Ergüven G. Ö.
Eurasia 2014 Waste Management Symposium, İstanbul, Turkey, 28 - 30 April 2014, pp.853-860
- XX. **Parasetamol İçeren İlaç Atıksularından İleri Oksidasyon Sistemleri ile KOİ Giderimi**
Türkdoğan F. İ., Dalgıç Bozyiğit G., Yetilmezsoy K., Kıyan E., Zaghbani N.
I. Ar-Ge Proje Pazarı Enerji ve Çevre Teknolojileri., İstanbul, Turkey, 29 - 30 May 2012, pp.67

Supported Projects

Bakırdere S., Erarpat S., Chormey D. S., Dalgıç Bozyiğit G., TÜBİTAK International Bilateral Joint Cooperation Program Project, Çevresel Örneklerde BulunanKurşun, Kadmiyum ve Nikel'in Basit ve Etkili Ekstraksiyon/Önderiştirme Stratejileri ve Farklı Hidrazon Kompleksleştirici Ajanları Kullanarak Yarıklı Kuartz Tüp-Alevli Atomik Absorpsiyon Spektrometrisi ile Doğru ve Duyarlı Tayinleri, 2023 - 2025

ENGİN G., DALGIÇ BOZYIĞIT G., Project Supported by Higher Education Institutions, Simultaneous Determination of Nervous System Drugs and Their Removal from Wastewater by Novel Adsorption Techniques, 2020 - 2023

Özkaya B., Doğan U., Gürtürk M., Akpınar B., Aykut N. O., Erkmen B., Amasyalı M. F., Erdinç O., Aladağ H., Karanlık G., et al.,

Project Supported by Higher Education Institutions, Üniversite Kampüslerinin Dijitalleşme Sürecinin Analizi, 2021 - 2021
BAKIRDERE S., ÖZ E., BODUR S., ERARPAT S., DALGIÇ BOZYİĞİT G., ÖZDOĞAN N., Project Supported by Higher Education
Institutions, Özgün Sıvı-Sıvı Mikroekstraksiyon İzotop Seyreltme Kütle Spektroskopisi Yöntemleri Kullanılarak Bisfenol
A'nın Farklı Çevre Örneklerinde Yüksek Doğruluk ve Duyarlılıkta Tayini, 2020 - 2020
KANAT G., DALGIÇ BOZYİĞİT G., Project Supported by Higher Education Institutions, Haliç Sediment Çamurunun Kirliliği
ve Ağır Metal Fraksiyonlarının Belirlenmesi, 2014 - 2017
TÜRKOĞAN F. İ., DALGIÇ BOZYİĞİT G., Project Supported by Higher Education Institutions, Atıksu ve Yeraltı Sularına
Karışan Antibiyotik Miktarlarının Tayini ve Arıtma Tesislerinde Giderim Seviyelerinin Belirlenmesi, 2013 - 2017
Şakar S., Koçak E., Dalgıç Bozyiğit G., Bozyiğit M., KIYAN E., Project Supported by Higher Education Institutions, Güllük
Körfezi Off Shore Balık Yetiştiricilik Tesislerini Tehdit Eden Potansiyel Genotoksik Etkilerin Araştırılması, 2013 - 2017
ŞAKAR S., DALGIÇ BOZYİĞİT G., Project Supported by Higher Education Institutions, Güllük Körfezi Off-Shore Balık
Yetiştiricilik Tesislerini Tehdit Eden Potansiyel Genotoksik Etkilerin Araştırılması, 2013 - 2017
Bayhan H., Kanat G., Kıyan E., Dalgıç Bozyiğit G., Ergüven G. Ö., Nuhoglu Y., Project Supported by Higher Education
Institutions, Ayçiçeği üretiminde kullanılan pestisitlerin Tribenuron methyl Aclinofen Trifluralin doğal süreçte izlenmesi
ve bioremediasyon yöntemiyle gideriminin araştırılması, 2012 - 2016
BAYHAN H., DALGIÇ BOZYİĞİT G., Project Supported by Higher Education Institutions, Ay çiçeği üretiminde kullanılan
pestisitlerin (Tribenuron methyl, Aclinofen, Trifluralin) doğal süreçte izlenmesi ve bioremediasyon yöntemiyle
gideriminin araştırılması, 2012 - 2016
Türkdoğan F. İ., Yetilmezsoy K., DALGIÇ BOZYİĞİT G., KIYAN E., Project Supported by Higher Education Institutions,
Parasetamol İçeren İlaç Atıksularından İleri Oksidasyon Sistemleri İle KOİ Giderimi, 2011 - 2016
Kıyan E., Dalgıç Bozyiğit G., Yetilmezsoy K., Türkdoğan F. İ., Ergüven G. Ö., Project Supported by Higher Education
Institutions, Parasetamol İçeren İlaç Atıksuyunun Canlı DNA'sı Üzerindeki Genotoksik Etkilerinin Araştırılması, 2012 -
2015
BAYHAN H., DALGIÇ BOZYİĞİT G., Project Supported by Higher Education Institutions, Ömerli Havzası Ve Baraj Gölünde
Su Kalitesi Araştırması, 2010 - 2013

Metrics

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Citation (WoS): 150

Citation (Scopus): 147

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