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Öğrenim Bilgisi

Doktora

2011 - 2018

Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye

Yüksek Lisans

2008 - 2011

Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye

Lisans

2003 - 2007

Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Türkiye

Yabancı Diller

İngilizce, A1 Başlangıç

Almanca, B2 Orta Üstü

İtalyanca, B1 Orta

Akademik Unvanlar / Görevler

Doç.Dr.

2022 - Devam Ediyor

İstanbul Teknik Üniversitesi, İnşaat, Çevre Mühendisliği

Dr.Öğr.Üyesi

2019 - 2022

Universita Degli Studi di Padova, Department of Chemical Sciences

Araştırma Görevlisi

2009 - 2019

Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Müh.Bölümü

Araştırma Görevlisi
2013 - 2013

Technische Universitaet Braunschweig, Faculty of Life Sciences, Institute of
Environmental and Sustainable Chemistry

Araştırma Görevlisi
2010 - 2011

Universita Degli Studi di Catania, Faculty of Engineering, Chemical Engineering
Department

Desteklenen Projeler

1. Altuntaş K., Çetinkaya A. Y., UFUK AVRUPA Projesi, EmpOweR Students as the agents of cHange, 2023 - 2026
2. Altuntaş K., Yalçıntepe Güneştutar L., Erdağ D., Toprak M., TÜBİTAK Uluslararası İkili İşbirliği Projesi, Soğuk Plazma ve Pulse Manyetik Alan Kombinasyonu ile Salinomisin ve Kurkumin Yüklü Fonksiyonel Manyetik Nanoparçacıkların Meme Kanseri Hücrelerinde Antikanser İnovatif Yaklaşımı, 2023 - 2025
3. Altuntaş K., TÜBİTAK - AB COST Projesi , Therapeutical applications of Cold Plasmas - PlasTHER, 2021 - 2025
4. Altuntaş K., TÜBİTAK - AB COST Projesi , Plasma Applications for Smart and Sustainable Agriculture-Plagri, 2020 - 2024
5. Altuntaş K., Debik E., İlhan F., Manav Demir N., Newton Programı Destekli Proje, UK-Turkey capacity building for wastewater treatment integrated with renewable energy and safer reuse for sustainable communities, 2021 - 2022
6. Altuntaş K., UFUK 2020 Projesi, Perfluorinated Organic Compounds (PFCs) Degradation using Non-Thermal Plasma Enhanced by Boron Doped Graphene Oxide as Catalyst, 2020 - 2022
7. Altuntaş K., TÜBİTAK Projesi, Yenilikçi bir teknoloji olarak Soğuk Plazma ile Perflorlu Organik Bileşiklerin (PFCl'er) Degradasyonunun Araştırılması, 2019 - 2022

Burslar

Marie Skłodowska-Curie Grant, Avrupa Birliği Komisyonu, 2020 - 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. **Emerging pollutants removal in full-scale biological treatment plants: A case study**
Altuntaş K., Manav-Demir N., İLHAN F., Gelgor H. B., Huddersman K., Tiwary A., DEBİK E.
Journal of Water Process Engineering, cilt.51, 2023 (SCI-Expanded)
2. **Electrochemically activated persulfate and peroxymonosulfate for furfural removal: optimization using Box–Behnken design**
CAN GÜVEN E., İLHAN F., Altuntaş K., YAZICI GÜVENÇ S., VARANK G.
Environmental Technology (United Kingdom), cilt.44, sa.9, ss.1251-1264, 2023 (SCI-Expanded)
3. **Iron-Copper Bimetallic Nanoparticle for the Removal of Disinfection By-products: Optimization, Kinetic Study, and Life Cycle Assessment**
Altuntaş K., El Hadki A., Bilgili L., KUZU S. L., ÇETİNKAYA A. Y., DEBİK E.
WATER AIR AND SOIL POLLUTION, cilt.233, sa.7, 2022 (SCI-Expanded)
4. **Electrocatalytic degradation of oxytetracycline using three-dimensional electrode and optimization via fuzzy logic modeling**
Altuntaş K., El Hadki A., İLHAN F., Zrineh A., El Hadki H., Kabbaj O. K., Dahchour A., DEBİK E.
SEPARATION SCIENCE AND TECHNOLOGY, cilt.57, sa.3, ss.454-464, 2022 (SCI-Expanded)
5. **Degradation of oxytetracycline in aqueous solution by heat-activated peroxydisulfate and peroxymonosulfate oxidation**
Altuntaş K., YAZICI GÜVENÇ S., CAN GÜVEN E., İLHAN F., VARANK G.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, cilt.29, sa.6, ss.9110-9123, 2022 (SCI-Expanded)

6. **Atmospheric plasma-based approaches for the degradation of dimethyl phthalate (DMP) in water**
Altuntaş K., Saleem M., Tomei G., Marotta E., Paradisi C.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, cilt.301, 2022 (SCI-Expanded)
7. **Removal of oxytetracycline by graphene oxide and Boron-doped reduced graphene oxide: A combined density function Theory, molecular dynamics simulation and experimental study**
El Hadki A., Altuntaş K., El Hadki H., ÜSTÜNDAĞ C. B., Kabbaj O. K., Dahchour A., Komiha N., Zrineh A., DEBİK E.
FLATCHEM, cilt.27, 2021 (SCI-Expanded)
8. **Biodegradation of emerging pharmaceuticals from domestic wastewater by membrane bioreactor: The effect of solid retention time**
Alobaidi R. A. K., Altuntaş K., Mhemid R. K. S., MANAV DEMİR N., ÇINAR Ö.
International Journal of Environmental Research and Public Health, cilt.18, sa.7, 2021 (SCI-Expanded)
9. **Effect of visible light on the removal of trichloromethane by graphene oxide**
Altuntaş K., DEBİK E., ÜSTÜNDAĞ C. B., Guven M. D., Gocen K. A.
Diamond and Related Materials, cilt.106, 2020 (SCI-Expanded)
10. **Dechlorination of dichlorodiphenyltrichloroethane (DDT) by Fe/Pd bimetallic nanoparticles: Comparison with nZVI, degradation mechanism, and pathways**
Altuntaş K., DEBİK E.
Frontiers of Environmental Science and Engineering, cilt.14, sa.1, 2020 (SCI-Expanded)
11. **Modelling and optimization of dye removal by Fe/Cu bimetallic nanoparticles coated with different Cu ratios**
Altuntaş K., KUZU S. L.
Materials Research Express, cilt.6, sa.11, 2019 (SCI-Expanded)
12. **Removal of humic substances by nano zero-valent iron supported on activated carbon and implementation of response surface methodology**
Altuntaş K.
Desalination and Water Treatment, cilt.166, ss.230-236, 2019 (SCI-Expanded)
13. **Electrocoagulation process for the treatment of metal-plating wastewater: Kinetic modeling and energy consumption**
İLHAN F., Altuntaş K., AVŞAR Y., KURT U., SARAL A.
Frontiers of Environmental Science and Engineering, cilt.13, sa.5, 2019 (SCI-Expanded)
14. **Treatability of raw textile wastewater using Fenton process and its comparison with chemical coagulation**
İLHAN F., Altuntaş K., Dogan C., KURT U.
Desalination and Water Treatment, cilt.162, ss.142-148, 2019 (SCI-Expanded)
15. **Dichloro-diphenyl-trichloroethane removal via nano zero-valent iron: Determination of degradation mechanism using response surface methodology**
Altuntaş K., DEBİK E., Arslan Z. B.
Desalination and Water Treatment, cilt.143, ss.197-207, 2019 (SCI-Expanded)
16. **Adsorption of copper ion from aqueous solutions by well-crystalized nanosized hydroxyapatite**
Altuntaş K., Uzun H. I., ÜSTÜNDAĞ C. B., DEBİK E.
Materials Research Express, cilt.6, sa.12, 2019 (SCI-Expanded)
17. **Enhancing Biodegradability of Textile Wastewater by Ozonation Processes: Optimization with Response Surface Methodology**
Altuntaş K., İLHAN F.
Ozone: Science and Engineering, cilt.40, sa.6, ss.465-472, 2018 (SCI-Expanded)
18. **Borohydride method modification in synthesizing nano zero valent iron and its application in DDT removal**
Altuntaş K., DEBİK E.
Environmental Science and Pollution Research, cilt.25, sa.30, ss.30110-30121, 2018 (SCI-Expanded)
19. **Nano zero-valent iron supported on activated carbon: Effect of ac/nzvi ratio on removal of nickel ion from water**

Altuntaş K., DEBİK E., Gungor S.

Global Nest Journal, cilt.20, sa.2, ss.424-431, 2018 (SCI-Expanded)

20. **Single and binary adsorption of copper and nickel metal ions on nano zero valent iron (nZVI): A kinetic approach**

Altuntaş K., DEBİK E., Yoruk I., Kozal D.

Desalination and Water Treatment, cilt.93, ss.274-279, 2017 (SCI-Expanded)

21. **Evaluation of operational parameters and its relation on the stoichiometry of Fenton's oxidation to textile wastewater Procena radnih parametara I njihov odnos sa stehiometrijom fenton oksidacije otpadne vode tekstilne industrije**

İLHAN F., YETİLMEZSOY K., Kabuk H. A., Altuntaş K., Coskun T., Akoglu B.

Chemical Industry and Chemical Engineering Quarterly, cilt.23, sa.1, ss.11-19, 2017 (SCI-Expanded)

22. **Comparative study of electrochemical wastewater treatment processes for bilge water as oily wastewater: A kinetic approach**

Altuntaş K., KURT U.

Journal of Electroanalytical Chemistry, cilt.747, ss.104-111, 2015 (SCI-Expanded)

23. **Determination of Biological Treatability Processes of Textile Wastewater and Implementation of a Fuzzy Logic Model**

Kabuk H. A., AVŞAR Y., KUZU S. L., İLHAN F., Altuntaş K.

International Journal of Photoenergy, cilt.2015, 2015 (SCI-Expanded)

24. **Electrocoagulation Process Application in Bilge Water Treatment Using Response Surface Methodology**

Ulucan-Altuntas K., Kabuk H. A., İlhan F., Kurt U.

INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, cilt.9, sa.5, ss.2316-2326, 2014 (SCI-Expanded)

25. **Comparison of pH Adjustment and Electrocoagulation Processes on Treatability of Metal Plating Wastewater**

Kabuk H. A., AVŞAR Y., İLHAN F., Altuntaş K.

Separation Science and Technology (Philadelphia), cilt.49, sa.4, ss.613-618, 2014 (SCI-Expanded)

26. **Combining adsorption and coagulation for the treatment of azo and anthraquinone dyes from aqueous solution**

Karadag D., Tok S., Akgul E., Ulucan-Altuntas K., Evden H., Kaya M.

INDUSTRIAL AND ENGINEERING CHEMISTRY RESEARCH, cilt.45, sa.11, ss.3969-3973, 2006 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

1. **Bisphenol a removal by graphene oxide applied in different processes**

DEBİK E., Altuntaş K., Hadki A. E.

Journal of Engineering and Technological Sciences, cilt.52, sa.3, ss.413-423, 2020 (ESCI)

2. **Adsorption of copper metal ion from aqueous solution by Nanoscale Zero Valent Iron (nZVI) supported on activated carbon**

Altuntaş K., DEBİK E., Kozal D., Yoruk I. I.

Periodicals of Engineering and Natural Sciences, cilt.5, sa.1, ss.61-64, 2017 (Scopus)

Patent

Altuntaş K., Debik E., Noberi C., Kaya C., Üstündağ C. B., Nano boyutta demir oksit (hematit) ile sinterlenmiş zeolit yatak malzemesi., Patent, BÖLÜM C Kimya; Metalürji, Buluşun Tescil No: TR 2013 06737 A2 , Standart Tescil, 2016

Araştırma Alanları

Atıksuların Toplanması ve Arıtımı, Su Temini ve Arıtımı, Kataliz ve Katalitik Süreçler, Gazlar, Plazmalar ve Elektriksel Boşalmalar Fiziği