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Eğitim Bilgileri

- I. Doktora, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, Türkiye 2011 - 2018
- II. Yüksek Lisans, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, Türkiye 2008 - 2011
- III. Lisans, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Türkiye 2003 - 2007

Yabancı Diller

- I. Almanca, B1 Orta
- II. İngilizce, C1 İleri
- III. İtalyanca, B1 Orta

Araştırma Alanları

Elektrokimyasal Teknolojiler, Çevre Teknolojileri, Nanomalzemeler, Gazlar, Plazmalar ve Elektriksel Boşalmalar Fiziği, Plazma fiziği, Kemometri

Akademik Unvanlar / Görevler

- I. Dr.Öğr.Üyesi, Università Degli Studi di Padova, Dipartimento di Scienze Chimiche, 2019 - Devam Ediyor
- II. Araştırma Görevlisi Dr., Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği, 2017 - Devam Ediyor
- III. Araştırma Görevlisi, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği, 2009 - 2017
- IV. Diğer, Technische Universität Braunschweig, Institut Für Ökologische Chemie Und Abfallanalytik, Ökologischen Chemie, 2013 - 2013
- V. Diğer, Università Degli Studi Di Catania, Facoltà Di Ingegneria., Dipartimento Di Ingegneria Meccanica, Chimica E Dei Materiali, 2010 - 2011

Verdiği Dersler

- I. Biyolojik Temel İşlemler, Lisans, 2018 - 2019
- II. Kimyasal Temel İşlemler, Lisans, 2017 - 2018, 2018 - 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Effect of visible light on the removal of trichloromethane by graphene oxide**
Ulucan-Altuntas K., DEBİK E., ÜSTÜNDAĞ C. B. , Guven M. D. , Gocen K. A.

Diamond and Related Materials, cilt.106, no.107814, 2020 (SCI İndekslerine Giren Dergi)

- II. **Dechlorination of dichlorodiphenyltrichloroethane (DDT) by Fe/Pd bimetallic nanoparticles: Comparison with nZVI, degradation mechanism, and pathways**
Ulucan-Altuntas K., DEBİK E.
FRONTIERS OF ENVIRONMENTAL SCIENCE & ENGINEERING, cilt.14, 2020 (SCI İndekslerine Giren Dergi)
- III. **Adsorption of copper ion from aqueous solutions by well-crystalized nanosized hydroxyapatite**
Ulucan-Altuntas K., Uzun H. I. , ÜSTÜNDAĞ C. B. , DEBİK E.
MATERIALS RESEARCH EXPRESS, cilt.6, no.125545, 2019 (SCI İndekslerine Giren Dergi)
- IV. **Modelling and optimization of dye removal by Fe/Cu bimetallic nanoparticles coated with different Cu ratios**
Ulucan-Altuntas K., Kuzu S. L.
MATERIALS RESEARCH EXPRESS, cilt.6, 2019 (SCI İndekslerine Giren Dergi)
- V. **Electrocoagulation Process for Metal Plating Wastewater: Kinetic Modelling and Energy Consumption**
İlhan F., Ulucan-Altuntaş K., Avşar Y., Kurt U., Saral A.
Frontiers of Environmental Science & Engineering, cilt.13, no.0, ss.73-81, 2019 (SCI İndekslerine Giren Dergi)
- VI. **Treatability of raw textile wastewater using Fenton process and its comparison with chemical coagulation**
İLHAN F., Ulucan-Altuntas K., Dogan C., KURT U.
DESALINATION AND WATER TREATMENT, cilt.162, ss.142-148, 2019 (SCI İndekslerine Giren Dergi)
- VII. **Removal of humic substances by nano zero-valent iron supported on activated carbon and implementation of response surface methodology**
Ulucan-Altuntas K.
Desalination And Water Treatment, cilt.0, no.0, 2019 (SCI İndekslerine Giren Dergi)
- VIII. **Dichloro-diphenyl-trichloroethane removal via nano zero-valent iron: determination of degradation mechanism using response surface methodology**
Ulucan-Altuntaş K., Debik E., Arslan Z. B.
DESALINATION AND WATER TREATMENT, cilt.143, ss.197-207, 2019 (SCI İndekslerine Giren Dergi)
- IX. **Optimization of raw acrylic yarn dye wastewater treatment by electrochemical processes: kinetic study and energy consumption**
İlhan F., Ulucan-Altuntas K., Dogan C., Kurt U.
GLOBAL NEST JOURNAL, cilt.21, ss.187-194, 2019 (SCI İndekslerine Giren Dergi)
- X. **Enhancing Biodegradability of Textile Wastewater by Ozonation Processes: Optimization with Response Surface Methodology**
Ulucan-Altuntas K., İLHAN F.
OZONE-SCIENCE & ENGINEERING, cilt.40, ss.465-472, 2018 (SCI İndekslerine Giren Dergi)
- XI. **Borohydride method modification in synthesizing nano zero valent iron and its application in DDT removal**
Ulucan-Altuntas K., Debik E.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, cilt.25, ss.30110-30121, 2018 (SCI İndekslerine Giren Dergi)
- XII. **Nano zero-valent iron supported on activated carbon: Effect of AC/nZVI ratio on removal of nickel ion from water**
ULUCAN-ALTUNTAS K., DEBİK E., GUNGOR S.
GLOBAL NEST JOURNAL, cilt.20, ss.424-431, 2018 (SCI İndekslerine Giren Dergi)
- XIII. **Single and binary adsorption of copper and nickel metal ions on nano zero valent iron (nZVI): a kinetic approach**
Ulucan-Altuntas K., DEBİK E., Yoruk I. I. , KOZAL D.
DESALINATION AND WATER TREATMENT, cilt.93, ss.274-279, 2017 (SCI İndekslerine Giren Dergi)
- XIV. **EVALUATION OF OPERATIONAL PARAMETERS AND ITS RELATION ON THE STOICHIOMETRY OF FENTON'S OXIDATION TO TEXTILE WASTEWATER**
İlhan F., Yetilmezsoy K., Kabuk H. A. , Ulucan K., Coskun T., Akoglu B.

CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY, cilt.23, ss.11-19, 2017 (SCI İndekslerine Giren Dergi)

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

Ulucan K., Kurt U.

JOURNAL OF ELECTROANALYTICAL CHEMISTRY, cilt.747, ss.104-111, 2015 (SCI İndekslerine Giren Dergi)

- XVI. **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., Ulucan K.

INTERNATIONAL JOURNAL OF PHOTOENERGY, 2015 (SCI İndekslerine Giren Dergi)

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

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

INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, cilt.9, ss.2316-2326, 2014 (SCI İndekslerine Giren Dergi)

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

Kabuk H. A. , Avşar Y., İlhan F., Ulucan K.

SEPARATION SCIENCE AND TECHNOLOGY, cilt.49, ss.613-618, 2014 (SCI İndekslerine Giren Dergi)

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

Karadag D., TOK S., AKGUL E., Ulucan K., EVDEN H., KAYA M. A.

INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, cilt.45, ss.3969-3973, 2006 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Fluidized Electrooxidation Process Using Three-Dimensional Electrode for Decolorization of Reactive Blue 221**

Ulucan-Altuntaş K.

Akademic Platform Journal of Engineering and Science, cilt.1, ss.1, 2021 (Hakemli Üniversite Dergisi)

- II. **Comparison of Chemical and Electrochemical Treatment Processes for Wool Yarn Dyeing Effluents**

Altuntaş K., İlhan F., Dogan C., Kurt U.

Sigma Journal of Engineering and Natural Science, cilt.38, no.2, ss.623-636, 2020 (ESCI İndekslerine Giren Dergi)

- III. **Bisphenol-A Removal by Graphene Oxide Applied in Different Processes**

Debik E., Altuntaş K., El Hadki A.

Journal of Engineering and Technological Sciences, cilt.52, ss.1-13, 2020 (ESCI İndekslerine Giren Dergi)

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

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

Periodicals of Engineering and Natural Sciences, cilt.5, ss.61-64, 2017 (Diğer Kurumların Hakemli Dergileri)

- V. **Disinfection By Products Removal by Nanoparticles Sintered in Zeolite**

Kübra U., Noberi C., Coşkun T., Üstündağ C. B. , Debik E., Kaya C.

Journal of Clean Energy Technologies, cilt.1, ss.120-123, 2013 (Diğer Kurumların Hakemli Dergileri)

- VI. **Sızıntı Sularının Evsel Atıksularla Birlikte Elektrokoagülasyon Prosesiyle Arıtılabilirliğinin İncelenmesi**

Kurt U., İlhan F., Birben C., Ulucan K., Gönüllü M. T.

Sigma Journal of Engineering and Natural Sciences, cilt.3, ss.55-64, 2011 (Hakemli Üniversite Dergisi)

Kitap & Kitap Bölümleri

I. **Nanoscale Zero-Valent Iron for Water Treatment**

Ulucan-Altuntas K.

Aquananotechnology: Applications of Nanomaterials for Water Purification, Kamel Abd-Elsalam, Muhammad Zahid, Editör, Elsevier Science, Oxford/Amsterdam , Oxford, ss.200-220, 2020

II. **Binary Adsorption of Copper and Nickel Metal Ions on Nano Zero Valent Iron Supported on Activated Carbon (AC-nZVI)**

Debik E., Ulucan-Altuntas K., Yörük İ. İ. , Kozal D.

Solutions to Water Challenges in MENA Region Proceedings of the Regional Workshop, Zeinab Abou-Elnaga; Mehmet Emin Aydin, Editör, Cuvillier Verlag, Göttingen, ss.146-152, 2016

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **DEGRADATION OF BISPHENOL-A BY GRAPHENE OXIDE UNDER VISIBLE LIGHT**

Debik E., Altuntaş K., El Hadki A.

Expert Workshop on Microplastics in the Water Environment, Surat-Thani, Tayland, 18 - 22 Ağustos 2019, cilt.1, no.1, ss.1

II. **Optimization of Disinfection By-Products Removal from Aqueous Solution by Fe/Cu Bimetallic Nanoparticle**

El Hadki A., Altuntaş K.

4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), İstanbul, Türkiye, 17 - 18 Haziran 2019, ss.542-549

III. **Implementation of Fuzzy Logic Model on Textile Wastewater Treatment by Electrocoagulation Process**

Altuntaş K., İlhan F., Kasar C., Gönüllü M. T.

4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), İstanbul, Türkiye, 17 - 18 Haziran 2019, ss.550-557

IV. **Optimization of electro-oxidation process for the treatment of reactive blue 221 using response surface methodology**

Yıldırım G. B. , İlhan F., Ulucan-Altuntaş K., Cemanovic A., Çınar Ö.

5th International Conference on Engineering and Natural Science, Praha, Çek Cumhuriyeti, 12 - 16 Haziran 2019, ss.664-669

V. **Kinetic Study for Nitrate Removal by Nano Zero Valent Iron**

UZUN H. İ. , ARSLAN Z. B. , ALTUNTAŞ K., DEBİK E.

Regional Workshop on "Water-Energy-Food-Nexus in MENA Region", Aswan, Mısır, 11 Kasım 2018, ss.1

VI. **Recent advances in metal doped graphene nanoparticles**

ALTUNTAŞ K.

International Conference on Application in Chemistry and Chemical Engineering, Belgrad, Sırbistan Ve Karadağ, 10 Ekim 2018, ss.1

VII. **Optimization of Electrochemical Processes for the Treatment of Raw Woollen Yarn Dye Wastewater**

ALTUNTAŞ K., İLHAN F., Doğan C., KURT U.

International Conference on Application in Chemistry and Chemical Engineering, Belgrade, Sırbistan Ve Karadağ, 10 - 14 Ekim 2018

VIII. **SPATIAL DISTRIBUTION OF OCPS IN SOILS OF ISTANBUL**

KISTAUBAYEVA A., SARAL A., KUZU S. L. , ULUCAN-ALTUNTAS K.

International Science and Technology Conference, Paris, Fransa, 18 Temmuz 2018, ss.1

IX. **DDT Removal by Nano Zero Valent Iron: Influence of pH on Removal Mechanism**

ALTUNTAŞ K., DEBİK E.

International Conference on Technology, Engineering and Science, 26 Ekim - 29 Ocak 2017

- X. **Binary Adsorption of Copper and Nickel Metal Ions on Nano Zero Valent Iron Supported on Activated Carbon (AC/nZVI)**
DEBİK E., ALTUNTAŞ K., YÖRÜK İ. İ. , KOZAL D.
Solutions to Water Challenges in MENA REGION Regional Workshop, Kahire, Mısır, 25 - 30 Nisan 2017, cilt.1, ss.146-152
- XI. **Adsorption of Copper Metal Ion from Aqueous Solution by Nanoscale Zero Valent Iron nZVI Supported on Activated Carbon**
ALTUNTAŞ K., DEBİK E., Kozal D., Yörük İ. İ.
3rd INTERNATIONAL SYMPOSIUM ON ENVIRONMENT AND MORALITY, 4 - 06 Kasım 2016, ss.504-511
- XII. **Single and Binary Adsorption of Copper and Nickel Metal Ions on Nano Zero Valent Iron (nZVI)**
ALTUNTAŞ K., DEBİK E., Kozal D., Yoruk İ. İ.
3rd International Conference on Recycling and Reuse, İstanbul, Türkiye, 28 Eylül 2016, ss.250-255
- XIII. **INVESTIGATION OF THE ESTROGENIC STEROID HORMONES' REMOVAL BY ? -Fe₂O₃ NANOPARTICLES IN ADSORPTION PROCESS**
ALTUNTAŞ K., DEBİK E., KOLB M., Bahadır A. M. , NOBERİ C., KAYA C.
2nd International Symposium on Environment and Morality, Adıyaman, Türkiye, 01 Ocak 2014, ss.1
- XIV. **Disinfection By Products Removal by Nanoparticles Sintered in Zeolite**
Ulucan K., NOBERİ C., COŞKUN T., ÜSTÜNDAĞ C. B. , DEBİK E., KAYA C.
3 rd International Conference on Future Environmnet and Energy, 24 - 25 Şubat 2013
- XV. **Treatability of diluate solution from electro dialysis process by aerobic sequencing batch reactor**
ERKAN H., İLHAN F., YAZICI GÜVENÇ S., ALTUNTAŞ K., APAYDIN Ö.
International Conference on Recycling and Reuse, 4 - 06 Temmuz 2012
- XVI. **Treatability of Diluate Solution from Electrodialysis Process by Aerobic Sequencing Batch Reactor International Conference on Recycling and Reuse**
SARI ERKAN H., İLHAN F., YAZICI S., ALTUNTAŞ K., APAYDIN Ö.
International Conference on Recycling and Reuse., 4 - 06 Haziran 2012
- XVII. **Treatment of Bilge Water By Electrocoagulation/Electroflotation Process**
ALTUNTAŞ K., İLHAN F., ÇIKARANOĞLU S., YAZICI GÜVENÇ S., ERKAN H., KURT U.
eurasia 2011, 14 - 16 Kasım 2011
- XVIII. **Fouling of Ion Exchange Membranes in Electrodialysis Process for Recovery of Leachate Compounds**
YAZICI S., İLHAN F., ERKAN H., Ulucan K., aydın y., KURT U.
Eurasia 2011 Waste Management Symposium, 14 - 16 Kasım 2011
- XIX. **Fouling of Ion Exchange Membranes in Electrodialysis Process for Recovery of Leachate Compounds**
YAZICI S., İLHAN F., SARI ERKAN H., ALTUNTAŞ K., KURT U.
Euraisa Waste Management Symposium, 10 - 11 Kasım 2011
- XX. **Treatment of Bilge Water By Electrocoagulation Electroflotation Process Optimization With Response Surface Method**
ALTUNTAŞ K., İLHAN F., YAZICI S., SARI ERKAN H., KURT U.
Euraisa Waste Management Symposium, 10 - 11 Kasım 2011

Desteklenen Projeler

- I. Altuntaş K., Debik E., Manav Demir N., Öz E., Newton Programı Destekli Proje, UK-Turkey capacity building for wastewater treatment integrated with renewable energy and safer reuse for sustainable communities, 2021 - 2022
- II. Altuntaş K., UFUK 2020 Projesi, Perfluorinated Organic Compounds (PFCs) Degradation using Non-Thermal Plasma Enhanced by Boron Doped Graphene Oxide as Catalyst, 2020 - 2022
- III. Altuntaş K., TÜBİTAK Projesi, Yenilikçi bir teknoloji olarak Soğuk Plazma ile Perflorlu Organik Bileşiklerin (PFCl'er) Degradasyonunun Araştırılması, 2019 - 2020

- IV. Altuntaş K., Apaydın Ö., Teknopark, Setaş Kimya Sanayi'nin Boyarmadde ve Kimyasal Üretiminden Kaynaklı Atıksuları İçin Ekonomik Entegre Arıtma Alternatiflerinin Araştırılması, 2018 - 2019
- V. Altuntaş K., Debik E., Yükseköğretim Kurumları Destekli Proje, Kalıcı Organik Kirleticilerin Su Ortamından Nanopartiküllerle Arıtılabilirliği, 2015 - 2018
- VI. Kurt U., İlhan F., Altuntaş K., Diğer Resmi Kurumlarca Desteklenen Proje, Sızıntı Sularının Evsel Atıksularla Birlikte Hızlı ve Ekonomik Bir Yöntem Olan Elektrokoagülasyonla Arıtılabilirliğinin İncelenmesi, 2008 - 2009

Patent

- I. Debik E., Altuntaş K., Kaya C., Üstündağ C. B. , Noberi C., Nanoboyutta Hematit ile sinterlenmiş Zeolit Yatak Malzemesi, Patent, BÖLÜM C Kimya; Metalürji, Birden Fazla Ülkede Tescil, 2016, 2015

Bilimsel Hakemlikler

- I. Desalination And Water Treatment, SCI Kapsamındaki Dergi, Ağustos 2020
- II. MATERIALS RESEARCH EXPRESS, SCI Kapsamındaki Dergi, Mayıs 2020
- III. International Journal Of Environmental Analytical Chemistry, SCI Kapsamındaki Dergi, Mayıs 2020
- IV. JOURNAL OF HAZARDOUS MATERIALS, SCI Kapsamındaki Dergi, Haziran 2018

Atıflar

- I. Toplam Atıf Sayısı (WOS): 128
- II. h-indeksi (WOS): 6

Burslar

- I. Marie Skłodowska Curie Bireysel Araştırma Bursu (MSCA-IF), Avrupa Birliği Komisyonu, 2020 - Devam Ediyor
- II. 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs, TÜBİTAK, 2019 - 2020
- III. 2211C - Öncelikli Alan Bursu, TÜBİTAK, 2014 - 2017
- IV. Forschungskurzstipendium, Yabancı Ülkelerin Resmi Kurumları, 2013 - 2013

Ödüller

- I. Ulucan-Altuntas K., Academical Encouragement Certificate (for achieving the third weighted rank among all academicians in Civil Engineering Faculty have the highest academic record in 2019), Yıldız Teknik Üniversitesi, Temmuz 2020
- II. Ulucan-Altuntas K., Academical Encouragement Certificate (for achieving the third weighted rank among all academicians in university have Intellectual and industrial property rights in 2016), Rectorship Of Yıldız Technical University, Mayıs 2018