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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. İngilizce, C1 İleri
- II. İtalyanca, B1 Orta
- III. Almanca, 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 Müh.Bölümü, 2017 - 2021
- III. Araştırma Görevlisi, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Müh.Bölümü, 2009 - 2017
- IV. Araştırmacı, Technische Universität Braunschweig, Institut Für Ökologische Chemie Und Abfallanalytik, Ökologischen Chemie, 2013 - 2013
- V. Araştırmacı, Università Degli Studi di Catania, Facoltà Di Ingegneria., Dipartimento Di Ingegneria Meccanica, Chimica E Dei Materiali, 2010 - 2011

I. Lisans

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

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

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- IV. **Removal of oxytetracycline by graphene oxide and Boron-doped reduced graphene oxide: A combined density function Theory, molecular dynamics simulation and experimental study**
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- V. **Biodegradation of Emerging Pharmaceuticals from Domestic Wastewater by Membrane Bioreactor: The Effect of Solid Retention Time**
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- VI. **Electrocatalytic Degradation of Oxytetracycline using Three-Dimensional Electrode and Optimization via Fuzzy Logic Modelling**
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- VIII. **Effect of visible light on the removal of trichloromethane by graphene oxide**
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- XI. **Modelling and optimization of dye removal by Fe/Cu bimetallic nanoparticles coated with different Cu ratios**
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- XII. **Electrocoagulation Process for Metal Plating Wastewater: Kinetic Modelling and Energy Consumption**

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- XIII. **Treatability of raw textile wastewater using Fenton process and its comparison with chemical coagulation**
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- XIV. **Removal of humic substances by nano zero-valent iron supported on activated carbon and implementation of response surface methodology**
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- XV. **Optimization of raw acrylic yarn dye wastewater treatment by electrochemical processes: kinetic study and energy consumption**
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- XVI. **Dichloro-diphenyl-trichloroethane removal via nano zero-valent iron: determination of degradation mechanism using response surface methodology**
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- XVII. **Enhancing Biodegradability of Textile Wastewater by Ozonation Processes: Optimization with Response Surface Methodology**
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- XIX. **Nano zero-valent iron supported on activated carbon: Effect of AC/nZVI ratio on removal of nickel ion from water**
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- XX. **Single and binary adsorption of copper and nickel metal ions on nano zero valent iron (nZVI): a kinetic approach**
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- XXI. **EVALUATION OF OPERATIONAL PARAMETERS AND ITS RELATION ON THE STOICHIOMETRY OF FENTON'S OXIDATION TO TEXTILE WASTEWATER**
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- XXV. **Comparison of pH Adjustment and Electrocoagulation Processes on Treatability of Metal Plating**

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- II. **Comparison of Chemical and Electrochemical Treatment Processes for Wool Yarn Dyeing Effluents**
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- III. **Bisphenol-A Removal by Graphene Oxide Applied in Different Processes**
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- IV. **Adsorption of copper metal ion from aqueous solution by Nanoscale Zero Valent Iron (nZVI) supported on activated carbon**
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- V. **Disinfection By Products Removal by Nanoparticles Sintered in Zeolite**
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- VI. **Sızıntı Sularının Evsel Atıksularla Birlikte Elektrokoagülasyon Prosesiyle Arıtılabilirliğinin İncelenmesi**
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Kitaplar

- I. **Sewerage Systems and Wastewater Treatment**
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- II. **Synthesis of Copper Nanostructured Materials: Antimicrobial and Environmental Remediation Applications on Emerging Agrochemicals**
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IV. **Binary Adsorption of Copper and Nickel Metal Ions on Nano Zero Valent Iron Supported on Activated Carbon (AC-nZVI)**

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Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

- I. **Non-thermal plasma based approaches for the degradation of poly- and perfluoroalkyl substances (PFAS) in water and leachate**
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- II. **Degradation of Perfluorooctanoic Acid (PFOA) in Water by Non-Thermal Plasma Enhanced by Boron-Doped Reduced Graphene Oxide**
Altuntaş K.
17th International Symposium on High Pressure Low Temperature Plasma Chemistry (HAKONE XVII), Maastricht, Hollanda, 20 - 26 Ağustos 2022, ss.1
- III. **Degradation of Perfluoroalkyl and Polyfluoroalkyl Substances by Non-Thermal Plasma enhanced by Graphene Oxide-based Catalysts**
Altuntaş K., Oripoli M., Saleem M., Tomei G., Pressi S., Menna E., Marotta E., Paradisi C.
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- IV. **Evaluation of recovery potential of wastewater treatment plants in Kocaeli, Turkey**
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- V. **Plasma-based water treatment in agricultural applications**
Marotta E., Saleem M., Tomei G., Beria M., Ulucan-Altuntas K., Paradisi C.
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- VI. **DEGRADATION OF BISPHENOL-A BY GRAPHENE OXIDE UNDER VISIBLE LIGHT**
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- VII. **Implementation of Fuzzy Logic Model on Textile Wastewater Treatment by Electrocoagulation Process**
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- VIII. **Optimization of Disinfection By-Products Removal from Aqueous Solution by Fe/Cu Bimetallic Nanoparticle**
El Hadki A., Altuntaş K.
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- IX. **Optimization of electro-oxidation process for the treatment of reactive blue 221 using response surface methodology**
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5th International Conference on Engineering and Natural Science, Praha, Çek Cumhuriyeti, 12 - 16 Haziran 2019, ss.664-669

- X. **Kinetic Study for Nitrate Removal by Nano Zero Valent Iron**
UZUN H. İ., ARSLAN Z. B., ALTUNTAŞ K., DEBİK E.
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- XI. **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
- XII. **Optimization of Electrochemical Processes for the Treatment of Raw Woollen Yarn Dye Wastewater**
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International Conference on Application in Chemistry and Chemical Engineering, Belgrade, Sırbistan Ve Karadağ, 10 - 14 Ekim 2018
- XIII. **SPATIAL DISTRIBUTION OF OCPS IN SOILS OF ISTANBUL**
KISTAUBAYEVA A., SARAL A., KUZU S. L., ULUCAN-ALTUNTAS K.
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- XIV. **DDT Removal by Nano Zero Valent Iron: Influence of pH on Removal Mechanism**
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- XV. **Binary Adsorption of Copper and Nickel Metal Ions on Nano Zero Valent Iron Supported on Activated Carbon (AC/nZVI)**
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- XVIII. **INVESTIGATION OF THE ESTROGENIC STEROID HORMONES' REMOVAL BY ? -Fe2O3 NANOPARTICLES IN ADSORPTION PROCESS**
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- XIX. **Disinfection By Products Removal by Nanoparticles Sintered in Zeolite**
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- XX. **Treatability of diluate solution from electro dialysis process by aerobic sequencing batch reactor**
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- XXI. **Treatability of Diluate Solution from Electrodialysis Process by Aerobic Sequencing Batch Reactor**
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- XXII. **Treatment of Bilge Water By Electrocoagulation/Electroflotation Process**
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- XXIII. **Fouling of Ion Exchange Membranes in Electrodialysis Process for Recovery of Leachate Compounds**
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- XXV. **Treatment of Bilge Water By Electrocoagulation Electroflotation Process Optimization With Response Surface Method**
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- XXVI. **Treatment of Bilge Water by Electrocoagulation Electroflotation Process Optimization with Response Surface Method**
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Desteklenen Projeler

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- II. Ulucan-Altuntas K., Debik E., Manav Demir N., Öz E., İLHAN F., Newton Programı Destekli Proje, UK-Turkey capacity building for wastewater treatment integrated with renewable energy and safer reuse for sustainable communities, 2021 - 2022
- III. Altuntaş K., UFUK 2020 Projesi, Perfluorinated Organic Compounds (PFCs) Degradation using Non-Thermal Plasma Enhanced by Boron Doped Graphene Oxide as Catalyst, 2020 - 2022
- IV. Altuntaş K., TÜBİTAK Projesi, Yenilikçi bir teknoloji olarak Soğuk Plazma ile Perflorlu Organik Bileşiklerin (PFCl'er) Degradasyonunun Araştırılması, 2019 - 2021
- V. Altuntaş K., Apaydın Ö., Teknopark, Setaş Kimya Sanayi'nin Boyarmadde ve Kimyasal Üretiminden Kaynaklı Atıksuları İçin Ekonomik Entegre Arıtma Alternatiflerinin Araştırılması, 2018 - 2019
- VI. Altuntaş K., Debik E., Yükseköğretim Kurumları Destekli Proje, Kalıcı Organik Kirleticilerin Su Ortamından Nanopartiküllerle Arıtılabilirliği, 2015 - 2018
- VII. 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

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Bilimsel Dergilerdeki Faaliyetler

- I. Plos One, Editör, 2022 - Devam Ediyor

Bilimsel Kuruluşlardaki Üyelikler / Görevler

- I. EuroScience, Asosiye Üye, 2022 - Devam Ediyor , Almanya

Bilimsel Yayınlarda Hakemlikler

- I. SEPARATION AND PURIFICATION TECHNOLOGY, SCI Kapsamındaki Dergi, Mart 2022
- II. Journal Of Environmental Management, SCI Kapsamındaki Dergi, Şubat 2022
- III. ENVIRONMENTAL MONITORING AND ASSESSMENT, SCI Kapsamındaki Dergi, Ocak 2022
- IV. ENVIRONMENTAL RESEARCH LETTERS, SCI Kapsamındaki Dergi, Ekim 2021
- V. SEPARATION AND PURIFICATION TECHNOLOGY, SCI Kapsamındaki Dergi, Ekim 2021
- VI. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH, SCI Kapsamındaki Dergi, Eylül 2021
- VII. JOURNAL OF WATER PROCESS ENGINEERING, SCI Kapsamındaki Dergi, Eylül 2021
- VIII. OZONE-SCIENCE & ENGINEERING, SCI Kapsamındaki Dergi, Temmuz 2021
- IX. PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, SCI Kapsamındaki Dergi, Ocak 2021
- X. CLEAN-SOIL AIR WATER, SCI Kapsamındaki Dergi, Kasım 2020
- XI. International Journal Of Environmental Analytical Chemistry, SCI Kapsamındaki Dergi, Mayıs 2020
- XII. JOURNAL OF HAZARDOUS MATERIALS, SCI Kapsamındaki Dergi, Haziran 2018
- XIII. CHEMICAL ENGINEERING JOURNAL, SCI Kapsamındaki Dergi, Ocak 2018

Bilimsel Projelerde Hakemlikler

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Metrikler

Yayın: 64
Atıf (WoS): 247
Atıf (Scopus): 364
H-İndeks (WoS): 10
H-İndeks (Scopus): 12

Burslar

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- II. 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs, TÜBİTAK, 2019 - 2020
- III. UNIPD Marie Skłodowska-Curie Actions - MAster your Research and Training Needs, Üniversite, 2019 - 2019
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- V. Forschungskurzstipendium, Yabancı Ülkelerin Resmi Kurumları, 2013 - 2013
- VI. Erasmus Mundus, Avrupa Birliği Komisyonu, 2010 - 2011

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

Antrenörlük Görevleri
