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Araştırma Alanları

Çevre Mühendisliği

Akademik Unvanlar / Görevler

Doç.Dr., Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Müh.Bölümü, 2020 - Devam Ediyor
Araştırma Görevlisi, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, 2011 - 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Comparative Life Cycle Assessment and Exergy Analysis of Coal- and Natural Gas-Based Ammonia Production
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- II. Application of life cycle assessment of system solution scenarios for municipal solid waste management in Turkey
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- III. Application fuzzy DEMATEL methodology to investigate some technical parameters of biochemical methane potential (BMP) test produced vegetable waste anaerobic biogas
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- IV. Iron-Copper Bimetallic Nanoparticle for the Removal of Disinfection By-products: Optimization, Kinetic Study, and Life Cycle Assessment
Altuntaş K., El Hadki A., BİLGİLİ L., KUZU S. L., ÇETİNKAYA A. Y., DEBİK E.
WATER AIR AND SOIL POLLUTION, cilt.233, sa.7, 2022 (SCI-Expanded)
- V. Influential Publications and Bibliometric Approach to Heavy Metal Removals for Water
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- VI. Analysis of the effects of domestic waste disposal methods on mucilage with life cycle assessment
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- VII. **A Synergistic Assessment of Bio-kinetics and Life Cycle Environmental Impacts of Different Agricultural Biomass Sources in Turkey**
YETİLMEZSOY K., ÇETİNKAYA A. Y., Bilgili L.
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- VIII. **Development of an MFC-biosensor for determination of Pb+2: an assessment from computational fluid dynamics and life cycle assessment perspectives**
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- IX. **Removal of Cu(II) ions from aqueous solutions using membrane system and membrane capacitive deionization (MCDI) technology**
Cetinkaya A. Y., BİLGİLİ L.
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- X. **Medical waste management in a mid-populated Turkish city and development of medical waste prediction model**
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ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY, cilt.22, sa.7, ss.6233-6244, 2020 (SCI-Expanded)
- XI. **Life cycle assessment of environmental effects and nitrate removal for membrane capacitive deionization technology**
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- XII. **Evaluation of railway versus highway emissions using LCA approach between the two cities of Middle Anatolia**
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SUSTAINABLE CITIES AND SOCIETY, cilt.49, 2019 (SCI-Expanded)
- XIII. **Climatological evaluation in a Central Anatolian city and indirect effects of climatological variation on air quality**
KUZU S. L., Cetinkaya A. Y.
Air Quality, Atmosphere and Health, cilt.12, sa.7, ss.847-854, 2019 (SCI-Expanded)
- XIV. **Life Cycle Comparison of Membrane Capacitive Deionization and Reverse Osmosis Membrane for Textile Wastewater Treatment**
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- XV. **Effect of operating parameters on boron removal using a combined system**
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- XVI. **Microbial fuel cell-based biosensor for toxicity testing of Cr6+**
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- XVII. **Performance and mechanism of direct As(III) removal from aqueous solution using low-pressure graphene oxide-coated membrane**
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Chemical Papers, cilt.72, sa.9, ss.2363-2373, 2018 (SCI-Expanded)
- XVIII. **Life cycle assessment and greenhouse gas emission evaluation from aksaray solid waste disposal facility**
Çetinkaya A. Y., Bilgili L., KUZU S. L.
Air Quality, Atmosphere and Health, cilt.11, sa.5, ss.549-558, 2018 (SCI-Expanded)
- XIX. **Phenol removal from synthetic solution using low pressure membranes coated with graphene oxide and carbon**
Cetinkaya A. Y., ÖZDEMİR O. K.
CHEMICAL PAPERS, cilt.72, sa.2, ss.327-335, 2018 (SCI-Expanded)
- XX. **Electricity Production and Characterization of High-Strength Industrial Wastewaters in Microbial**

Fuel Cell

CETINKAYA A. Y., ÖZDEMİR O. K., DEMİR A., ÖZKAYA B.

APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, cilt.182, sa.2, ss.468-481, 2017 (SCI-Expanded)

XXI. DISPERSION MODELLING OF VOLATILE ORGANIC COMPOUND EMISSIONS FROM ATAKOY WASTEWATER TREATMENT PLANT IN ISTANBUL

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XXII. Simultaneous production of bioelectricity and treatment of membrane concentrate in multtube microbial fuel cell

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XXIII. The production of electricity from dual-chambered microbial fuel cell fueled by old age leachate

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XXIV. Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling

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XXV. Electricity generation from organic fraction of municipal solid wastes in tubular microbial fuel cell

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XXVI. The development of catalytic performance by coating Pt-Ni on CMI7000 membrane as a cathode of a microbial fuel cell

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XXVII. Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration

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XXVIII. Novel design of a multtube microbial fuel cell ((UMFC)-F-2) for energy recovery and treatment of membrane concentrates

KÖROĞLU E. O., BAYSOY D. Y., CETINKAYA A. Y., OZKAYA B., ÇAKMAKCI M.

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XXIX. Change of surface and structure properties of cation exchange membrane in a microbial fuel cell

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XXX. Electricity generation from young landfill leachate in a microbial fuel cell with a new electrode material

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Düzen Dergilerde Yayınlanan Makaleler

- I. Comparative Life Cycle Assessment of Container Cities and Tent Cities for Earthquake Victims: Environmental Impacts and Sustainability Considerations
ÇETİNKAYA A. Y., Bilgili L.
Circular Economy and Sustainability, cilt.4, sa.1, ss.149-161, 2024 (Scopus)
- II. Environmental impact assessment of earthquake-generated construction and demolition waste

- management: a life cycle perspective in Turkey**
 Bilgili L., ÇETİNKAYA A. Y.
Environment Systems and Decisions, 2023 (Scopus)
- III. Treatment of slaughterhouse industry wastewater with ultrafiltration membrane and evaluation with life cycle analysis**
 Çetinkaya A. Y., Bilgili L.
Environmental Research & Technology, cilt.5, sa.3, ss.197-201, 2022 (Hakemli Dergi)
- IV. Life Cycle Comparison of Passenger Air and Rail Transportation**
 BİLGİLİ L., ÇETİNKAYA A. Y., KUZU S. L.
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- V. Bio-electroactive fuel cells and their applications**
 Çetinkaya A. Y., Kuzu S. L., Demir A.
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- VI. Investigation of Biomethane Potential of Dairy Industry Wastewater**
 Cetinkaya A. Y.
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- VII. EFFECT OF PRETREATMENT ON ELECTRICITY GENERATION FROM MUNICIPAL SOLID WASTE IN MICROBIAL FUEL CELL**
 Karluvalı A., Cetinkaya A. Y., KÖROĞLU E. O., ÖZKAYA B.
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- VIII. Microbial Fuel Cells for Energy Recovery from Waste**
 KÖROĞLU E. O., ÖZKAYA B., ÇETİNKAYA A. Y.
International Journal of Energy Science, cilt.4, sa.1, ss.28, 2014 (Hakemsiz Dergi)

Kitap & Kitap Bölümleri

- I. Investigation of EU Environmental Policies from the Past to the Future in the LCA Perspective**
 BİLGİLİ L., ÇETİNKAYA A. Y., KUZU S. L.
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- II. Investigation of EU Environmental Policies from the Past to the Future in the LCA Perspective**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. Life cycle assessment of three municipal solid waste management scenarios in İstanbul**
 Çetinkaya A. Y., Bilgili L.
6th EurAsia Waste Management Symposium 2022, İstanbul, Türkiye, 24 Ekim - 26 Kasım 2022, ss.1-3
- II. Eco-Indicators for Municipal Waste Management of Istanbul: A Historical Perspective**
 Özka B., Demir A., Çetinkaya A. Y., Bilgili L., Karluvalı A.
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- III. Energy, Environment and Sustainable Development**
 ÇETİNKAYA A. Y.
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- IV. Production of Electricity from methane by microbial fuel cell system**
 ÇETİNKAYA A. Y.

- 4th International Hydrogen Technologies Congress, 20 - 23 Haziran 2019
- V. Treatment of Slaughterhouse Industry Wastewater by Microfiltration and Ultrafiltration Membranes and Use as Agricultural Irrigation
ÇETİNKAYA A. Y.
2nd INTERNATIONAL CONFERENCE ONLIFE AND ENGINEERING SCIENCES, 27 - 29 Haziran 2019
- VI. Araba Yıkama Atıksının Tekrar kullanılmasında Ters Osmoz Membran Performansının Değerlendirilmesi
ÇETİNKAYA A. Y.
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- VII. Environment Impact of Waste Management Using Life Cycle Assesment in ISTANBUL
ÇETİNKAYA A. Y.
İCELİS, 26 - 28 Mayıs 2018
- VIII. Mikrobiyal Yakıt Hücresi İle Elektrik Enerjisi Üretimi ve Biyosensör Olarak Kullanımı
ÇETİNKAYA A. Y.
Eurasian Conference on Biological and Chemical Sciences, 26 - 27 Nisan 2018
- IX. Çevre Mühendisliğinin Tarihçesi ve Gelişimi
ÇETİNKAYA A. Y.
1. International Symposium on Innoative Approaches in Scientific Studies, 11 - 13 Nisan 2018
- X. PRODUCTION OF SUSTAINABLE ENERGY VIA INTEGRATION OF DIRECT BOROHYDRIDE
ÇETİNKAYA A. Y., ÖZDEMİR O. K., ÖZKAYA B.
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- XI. Historical Development in Microbial Fuel Cell Design and Performance in Yıldız Technical University
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- XII. Different anode materials for microbial fuel cells
ÇETİNKAYA A. Y., KÖROĞLU E. O., ÖZKAYA B., DEMİR A.
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- XIII. Different Anode Materials for Microbial Fuel Cell
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- XIV. Air Cathode Microbial Fuel Cells with Pt-Co Coated CMI7000 Membrane as the Cathodic Catalyst
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- XV. Katot Yüzeyi Pt Ni Katalizörle Kaplanmış CMI 7000 Membranının Mikrobiyal Yakıt Hücresindeki Performansının Değerlendirilmesi
ÇETİNKAYA A. Y., ÖZDEMİR O. K., KÖROĞLU E. O., ÖZKAYA B.
4. ULUSAL MEMBRAN TEKNOLOJİLERİ VE UYGULAMALARI SEMPOZYUMU, Türkiye, 7 - 09 Ekim 2015
- XVI. The Change Of Surface And Structure Properties Of Cation Exchange Membrane In A Microbial Fuel Cell
Çetinkaya A. Y., Denktaş C., Özkaya B., Çakmakçı M., Şahinkaya E., Karadağ D.
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- XVII. Yeni Geliştirilen Çapraz Akışlı Çoklu Tüp Mikrobiyal Yakıt Hücresi İle Evsel Atıksu Akımından Elektrik Enerjisi Üretimi
ÖZKAYA B., ÇETİNKAYA A. Y., KÖROĞLU E. O., ÇAKMAKÇI M., KARADAĞ D.
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Desteklenen Projeler

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KARLUVALI A., TAHERI MOUSAVI S. M., ÇETINKAYA A. Y., ÖZKAYA B., Yükseköğretim Kurumları Destekli Proje, GÜNEŞ ENERJİLİ DAMITMA SİSTEMİNDE FAZ DEĞİŞİM MALZEMESİİN ETKİSİ, 2022 - 2023
Kuzu S. L., Çetinkaya A. Y., TÜBİTAK Projesi, Yeni Geliştirilen Entegre Kapasitif Karışım ve Mikrobiyal Yakıt Hücresi Sistemi ile Tuzluluk Gradyanlarından ve Atiksudan Elektrik Enerjisi Üretimi, 2019 - 2020
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Karadağ D., TÜBİTAK Projesi, Yüzeyi Kaplanmış Ultrafiltrasyon Membranları ile İçme Suyu Kaynaklarındaki Organik Maddelerin Arıtılabilirliği, 2011 - 2013

Metrikler

Yayın: 58
Atıf (WoS): 370
Atıf (Scopus): 553
H-İndeks (WoS): 11
H-İndeks (Scopus): 13

Akademi Dışı Deneyim

CSIR-Indian Institute of Chemical Technology
Tampere University of Technology