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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**
ÇETİNKAYA A. Y., Bilgili L., KUZU S. L., Yılmaz F.
Chemical Engineering and Technology, cilt.46, sa.11, ss.2431-2441, 2023 (SCI-Expanded)
- II. **Application of life cycle assessment of system solution scenarios for municipal solid waste management in Turkey**
Çetinkaya A. Y., Bilgili L.
JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT, cilt.1, ss.1-10, 2022 (SCI-Expanded)
- III. **Application fuzzy DEMATEL methodology to investigate some technical parameters of biochemical methane potential (BMP) test produced vegetable waste anaerobic biogas**
Bashan V., ÇETİNKAYA A. Y.
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.194, sa.9, 2022 (SCI-Expanded)
- 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**
BAŞHAN V., ÇETİNKAYA A. Y.
WATER AIR AND SOIL POLLUTION, cilt.233, sa.7, 2022 (SCI-Expanded)
- VI. **Analysis of the effects of domestic waste disposal methods on mucilage with life cycle assessment**
Çetinkaya A. Y., Bilgili L., Sarı M.
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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.
Waste and Biomass Valorization, cilt.13, sa.5, ss.2651-2671, 2022 (SCI-Expanded)
- VIII. **Development of an MFC-biosensor for determination of Pb+2: an assessment from computational fluid dynamics and life cycle assessment perspectives**
Cetinkaya A. Y., KUZU S. L., Bilgili L.
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.194, sa.4, 2022 (SCI-Expanded)
- IX. **Removal of Cu(II) ions from aqueous solutions using membrane system and membrane capacitive deionization (MCDI) technology**
Cetinkaya A. Y., BİLGİLİ L.
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.193, sa.8, 2021 (SCI-Expanded)
- X. **Medical waste management in a mid-populated Turkish city and development of medical waste prediction model**
Çetinkaya A. Y., KUZU S. L., DEMİR A.
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**
ÇETİNKAYA A. Y.
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.192, sa.8, 2020 (SCI-Expanded)
- XII. **Evaluation of railway versus highway emissions using LCA approach between the two cities of Middle Anatolia**
Bilgili L., KUZU S. L., Çetinkaya A. Y., Kumar P.
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**
Cetinkaya A. Y., Bilgili L.
WATER AIR AND SOIL POLLUTION, cilt.230, sa.7, 2019 (SCI-Expanded)
- XV. **Effect of operating parameters on boron removal using a combined system**
Cetinkaya A. Y.
Materials Research Express, cilt.6, sa.7, 2019 (SCI-Expanded)
- XVI. **Microbial fuel cell-based biosensor for toxicity testing of Cr6+**
Çetinkaya A. Y., ÖZKAYA B.
International Journal of Global Warming, cilt.17, sa.4, ss.347-356, 2019 (SCI-Expanded)
- XVII. **Performance and mechanism of direct As(III) removal from aqueous solution using low-pressure graphene oxide-coated membrane**
Cetinkaya A. Y.
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**
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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**
ÇETİNKAYA A. Y., KUZU S. L.
JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, cilt.18, sa.4, ss.1337-1345, 2017 (SCI-Expanded)
- XXII. **Simultaneous production of bioelectricity and treatment of membrane concentrate in multitube microbial fuel cell**
KÖROĞLU E. O., Cetinkaya A. Y., ÖZKAYA B., DEMİR A.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, cilt.122, sa.5, ss.594-600, 2016 (SCI-Expanded)
- XXIII. **The production of electricity from dual-chambered microbial fuel cell fueled by old age leachate**
CETINKAYA A. Y., ÖZKAYA B., Taskan E., KARADAĞ D., ÇAKMAKCI M.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.38, sa.11, ss.1544-1552, 2016 (SCI-Expanded)
- 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**
Karlulah A., KÖROĞLU E. O., Manav N., Cetinkaya A. Y., ÖZKAYA B.
Separation and Purification Technology, cilt.156, ss.502-511, 2015 (SCI-Expanded)
- XXVI. **The development of catalytic performance by coating Pt-Ni on CMI7000 membrane as a cathode of a microbial fuel cell**
Cetinkaya A. Y., ÖZDEMİR O. K., KÖROĞLU E. O., Hasimoglu A., ÖZKAYA B.
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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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Cuihua Xuebao/Chinese Journal of Catalysis, cilt.36, sa.7, ss.1068-1076, 2015 (SCI-Expanded)
- XXVIII. **Novel design of a multitube 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**
ÖZKAYA B., DENKTAŞ C., ÇETİNKAYA A. Y., ÇAKMAKCI M., KARADAĞ D., ŞAHİNKAYA E.
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- XXX. **Electricity generation from young landfill leachate in a microbial fuel cell with a new electrode material**
Ozkaya B., Cetinkaya A. Y., ÇAKMAKCI M., KARADAĞ D., ŞAHİNKAYA E.
BIOPROCESS AND BIOSYSTEMS ENGINEERING, cilt.36, sa.4, ss.399-405, 2013 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **İçme Suyundan Doğal Organik Madde Gideriminde Kitosan/Karbon Nanotüp Kaplı Ultrafiltrasyon Membranlarının Performansı**
ZENGİN İ. H., ÇAKMAKCI M., BÜYÜKBÜBEROĞLU F. B. Y., KARADAĞ D., DENKTAŞ C., AVCIATA O., ÇETİNKAYA A. Y.
JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, cilt.9, sa.2, ss.257-268, 2024 (Hakemli Dergi)
- 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, cilt.44, sa.2, ss.424-432, 2024 (Scopus)

- III. **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)
- IV. **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)
- V. **Life Cycle Comparison of Passenger Air and Rail Transportation**
BİLGİLİ L., ÇETİNKAYA A. Y., KUZU S. L.
Environmental Research & Technology, cilt.5, sa.1, ss.44-49, 2022 (Scopus)
- VI. **Bio-electroactive fuel cells and their applications**
Çetinkaya A. Y., Kuzu S. L., Demir A.
Environmental Research and Technology, cilt.3, sa.4, ss.182-186, 2020 (Hakemli Dergi)
- VII. **Investigation of Biomethane Potential of Dairy Industry Wastewater**
Cetinkaya A. Y.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, cilt.21, sa.2, ss.457-460, 2018 (ESCI)
- VIII. **EFFECT OF PRETREATMENT ON ELECTRICITY GENERATION FROM MUNICIPAL SOLID WASTE IN MICROBIAL FUEL CELL**
Karluvalı A., Cetinkaya A. Y., KÖROĞLU E. O., ÖZKAYA B.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGISI, cilt.33, sa.4, ss.479-488, 2015 (ESCI)
- IX. **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.
The Future of the European Union Integration: A Failure or A Success? Future Expectations, Altuğ Günar, Burak Darıcı, Editör, Peter Lang, ss.95-106, 2020
- II. **Investigation of EU Environmental Policies from the Past to the Future in the LCAPerspective**
ÇETİNKAYA A. Y., BİLGİLİ L., KUZU S. L.
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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 İstanbul: A Historical Perspective**
Özkaya B., Demir A., Çetinkaya A. Y., Bilgili L., Karluvalı A.
IRRC Waste-to-Energy, Vienna, Avusturya, 14 - 15 Ekim 2019, ss.143-152
- III. **Energy, Environment and Sustainable Development**

- ÇETİNKAYA A. Y.
International Conference on Energy and Sustainable Built Development, 19 - 20 Haziran 2019
- 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 ON LIFE AND ENGINEERING SCIENCES, 27 - 29 Haziran 2019
- VI. **Araba Yıkama Atıksularının Tekrar kullanılmasında Ters Osmoz Membran Performansının Değerlendirilmesi**
ÇETİNKAYA A. Y.
4th Uluslararası Bilimsel Araştırmalar Kongresi, 14 - 17 Şubat 2019
- 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.
2nd International Energy Engineering Conference, Gaziantep, Türkiye, 12 - 13 Ekim 2017
- XI. **Historical Development in Microbial Fuel Cell Design and Performance in Yildiz Technical University**
KÖROĞLU E. O., ÇETİNKAYA A. Y., KARLUVALI A., ÖZKAYA B., DEMİR A.
International Workshop on 'Microbial Electrochemical Technologies for Sustainability: Fuels, Chemicals, Remediation', HAYDARABAD, Hindistan, 28 Şubat 2017
- XII. **Different anode materials for microbial fuel cells**
ÇETİNKAYA A. Y., KÖROĞLU E. O., ÖZKAYA B., DEMİR A.
International Workshop on 'Microbial Electrochemical Technologies for Sustainability: Fuels, Chemicals, Remediation', HAYDARABAD, Hindistan, 28 Şubat 2017
- XIII. **Different Anode Materials for Microbial Fuel Cell**
ÇETİNKAYA A. Y., KÖROĞLU E. O., ÖZKAYA B., DEMİR A.
international Workshop on 'Microbial Electrochemical Technologies for Sustainability, 28 Şubat 2017
- XIV. **Air Cathode Microbial Fuel Cells with Pt-Co Coated CMI7000 Membrane as the Cathodic Catalyst**
ÇETİNKAYA A. Y., ÖZDEMİR O. K., ÖZKAYA B., Sulonen M., Puhakka J.
General Meeting of the International Society for Microbial Electrochemistry and Technology, 3 - 06 Aralık 2016
- 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., Denктаş C., Özkaya B., Çakmakçı M., Şahinkaya E., Karadağ D.
International Conference On Recycling And Reuse , İstanbul, Türkiye, 4 - 06 Haziran 2012, ss.56
- 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

Çetinkaya A. Y., Satıcı S. A., UFUK 2020 Projesi, Empower Students as the agents of change, 2023 - 2025
KARLUVALI A., TAHERI MOUSAVI S. M., ÇETİNKAYA A. Y., ÖZKAYA B., Yükseköğretim Kurumları Destekli Proje, GÜNEŞ ENERJİLİ DAMITMA SİSTEMİNDE FAZ DEĞİŞİM MALZEMESİNİN ETKİSİ, 2022 - 2023
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Çetinkaya A. Y., TÜBİTAK Projesi, Mikro Ölçekli Mikrobiyal Yakıt Hücresinin Toksikite Sensörü Olarak Kullanımının Değerlendirilmesi, 2019 - 2020
Özkaya B., AB Destekli Diğer Projeler, Düşük Maliyetli ve Verimli Mikrobiyal Yakıt Hücresi MYH Malzemeleri ile Atıksulardan Biyoelektrik Üretimi, 2014 - 2017
Karadağ D., TÜBİTAK Projesi, Yüzeyi Kaplanmış Ultrafiltrasyon Membranları ile İçme Suyu Kaynaklarındaki Organik Maddelerin Arıtılabilirliği, 2011 - 2013

Metrikler

Yayın: 59
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H-İndeks (Scopus): 13

Akademi Dışı Deneyim

CSIR-Indian Institute of Chemical Technology
Tampere University of Technology