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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, Turkey
2020 - 2023

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Bilimleri Mühendisliği Ve Yönetimi Programı,
Turkey 2017 - 2020

Undergraduate, Istanbul Technical University, İnşaat Fakültesi, Çevre Mühendisliği, Turkey 2012 - 2017

Research Areas

Environmental Technology, Renewable energy, Biotechnological Processes and Fermentation Technology

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering,
2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhancing fermentation yield for biohydrogen production using eco-friendly nickel and cobalt ferrite nanoparticles**
YILDIRIM Ö., ÖZKAYA B.
Biomass Conversion and Biorefinery, 2024 (SCI-Expanded)
- II. **Prediction of biogas production of industrial scale anaerobic digestion plant by machine learning algorithms**
YILDIRIM Ö., ÖZKAYA B.
Chemosphere, vol.335, 2023 (SCI-Expanded)
- III. **Optimization of enzymatic hydrolysis conditions of chemical pretreated cotton stalk using response surface methodology for enhanced bioethanol production yield**
Yıldırım Ö., Tunay D., Özkaya B.
BIOMASS CONVERSION AND BIOREFINERY, vol.13, no.8, pp.6623-6634, 2023 (SCI-Expanded)
- IV. **Effect of nanoparticles synthesized from green extracts on dark fermentative biohydrogen**

production

YILDIRIM Ö., ÖZKAYA B.

Biomass and Bioenergy, vol.170, 2023 (SCI-Expanded)

- V. **Energy-efficient biogas production from co-digestion of food waste and sewage sludge via kinetic modeling and exergy analyses**
TUNAY D., YILDIRIM Ö., ÖZKAYA B.
Environment, Development and Sustainability, 2023 (SCI-Expanded)
- VI. **Assessment of biomethane potential of cotton stalk using response surface methodology**
YILDIRIM Ö., Altınbaş M., ÖZKAYA B.
International Journal of Global Warming, vol.31, no.1, pp.14-29, 2023 (SCI-Expanded)
- VII. **Effect of organic fraction of municipal solid waste addition to high rate activated sludge system for hydrogen production from carbon rich waste sludge**
TUNAY D., YILDIRIM Ö., ÖZKAYA B., DEMİR A.
International Journal of Hydrogen Energy, vol.47, no.62, pp.26284-26293, 2022 (SCI-Expanded)
- VIII. **Optimization of oxalic and sulphuric acid pretreatment conditions to produce bio-hydrogen from olive tree biomass**
YILDIRIM Ö., TUNAY D., ÖZKAYA B., DEMİR A.
International Journal of Hydrogen Energy, vol.47, no.62, pp.26316-26325, 2022 (SCI-Expanded)
- IX. **Effect of Green synthesized silver oxide nanoparticle on biological hydrogen production**
YILDIRIM Ö., TUNAY D., ÖZKAYA B., DEMİR A.
International Journal of Hydrogen Energy, vol.47, pp.19517-19525, 2022 (SCI-Expanded)
- X. **Evaluation of the biogas potential of mucilage formed in the Marmara Sea**
YILDIRIM Ö., ÖZKAYA B., DEMİR A.
International Journal of Hydrogen Energy, vol.47, pp.15456-15463, 2022 (SCI-Expanded)
- XI. **Determination of photoautotrophic growth and inhibition kinetics by the Monod and the Aiba models and bioenergetics of local microalgae strain**
TUNAY D., YILDIRIM Ö., ÖZKAYA B., DEMİR A.
Chemosphere, vol.292, 2022 (SCI-Expanded)
- XII. **Reuse of sea water reverse osmosis brine to produce Dunaliella salina based 0-carotene as a valuable bioproduct: A circular bioeconomy perspective**
Yıldırım Ö., Tunay D., Özkaya B.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.302, 2022 (SCI-Expanded)
- XIII. **Statistical optimization of dilute acid pretreatment of lignocellulosic biomass by response surface methodology to obtain fermentable sugars for bioethanol production**
YILDIRIM Ö., ÖZKAYA B., Altınbaş M., DEMİR A.
International Journal of Energy Research, vol.45, pp.8882-8899, 2021 (SCI-Expanded)
- XIV. **Recent advances in the pretreatment of lignocellulosic biomass for enhanced biofuel production**
YILDIRIM Ö., SONGÜR R., BAYRAKTAR E., DEMİR A., ÖZKAYA B.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.22, no.3, pp.342-374, 2020 (SCI-Expanded)

Books & Book Chapters

- I. **SUSTAINABLE ETHANOL PRODUCTION FROM LIGNOCELLULOSIC BIOMASS: A WATER FOOTPRINT ANALYSIS OVER PRE-TREATMENT TECHNOLOGIES**
Yıldırım Ö., Tunay D., Özkaya B., Demir A.
in: Bioethanol Biochemistry and Biotechnological Advances, Ayerim Y.Hernandez Almanza,Nagamani Balagurusamy,Hector A.Ruiz,Cristobal N.Aguilar, Editor, Apple Academic Press, Burlington, pp.401-419, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of Thermal and Biological Hydrogen Production Systems from Municipal Solid Waste in terms of Energy Productivity and Carbon Release**
Tunay D., Yıldırım Ö., Özkaya B., Demir A.
6th International TECHNOLOGIES HYDROGEN Congress, Çanakkale, Turkey, 23 - 26 January 2022, pp.363-364
- II. **Effect of Nickel Ferrite and Cobalt Ferrite Nanoparticles on Dark Fermentation**
Yıldırım Ö., Özkaya B., Demir A.
5th International Hydrogen Technologies Congress (IHTEC-2022), 23 - 26 January 2022, pp.336-338
- III. **Effect of Green Synthesized Silver Oxide Nanoparticles on Biological Hydrogen Production**
Yıldırım Ö., Tunay D., Özkaya B., Demir A.
International Hydrogen Technologies Congress (5th IHTEC), 26 - 28 May 2021, pp.52-54
- IV. **Optimization of Pretreatment of Olive Tree Biomass using Response Surface Methodology for Biological Hydrogen Production**
Yıldırım Ö., Tunay D., Özkaya B., Demir A.
International Hydrogen Technologies Congress (5th IHTEC), 26 - 28 May 2021, pp.255-256
- V. **Effect of Organic Fraction of Municipal Solid Waste Addition to High Rate Activated Sludge System for Hydrogen Production from Carbon Rich Waste Sludge**
Tunay D., Yıldırım Ö., Özkaya B., Demir A.
5th International Hydrogen Technologies, Niğde, Turkey, 26 - 28 May 2021, pp.232-233
- VI. **Enhanced Bioethanol Production from Olive Tree Biomass with Different Pretreatment Methods**
Yıldırım Ö., Tunay D., Özkaya B., Demir A.
3rd Bioenergy Studies Symposium, 20 - 21 May 2021, pp.18
- VII. **Application of Thermal Conversion Process to Major Solid and Wet Wastes of Istanbul City**
Çallıalp F., Teymur S., Bostan D., Yıldırım Ö., Tunay D., Civelek Yörüklü H., Özkaya B.
WESCE 2019, İstanbul, Turkey, 26 - 28 August 2019
- VIII. **Determination of hydrogen and methane production from biological sludge based on energy equivalence and environmental impacts**
TUNAY D., YILDIRIM Ö., KÖROĞLU E. O., ÖZKAYA B.
4. International Hydrogen Technologies Congress-IHTEC 2019, 20 - 23 June 2019, no.309
- IX. **Feasibility of Biological Hydrogen and Alcohol Production from Sunflower Straw**
Yıldırım Ö., Civelek Yörüklü H., Tunay D., Köroğlu E. O., Özkaya B., Demir A.
International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 June 2019, no.315, pp.109

Supported Projects

DEMİR A., KÖROĞLU E. O., CİVELEK YÖRÜKLÜ H., ÖZKAYA B., YILDIRIM Ö., BAYRAKTAR E., SONGÜR R., Project Supported by Higher Education Institutions, Lignoselülozik Atıklardan ABE Fermantasyonu ile Etanol ve Bütanol Üretimi, 2019 - 2021

Altınbaş M., Koyuncu İ., TUBITAK Project, Kanal Tipi Membran Fotobiyoreaktör Sistemi ile Anaerobik Çürütücü Çıkış Suyunda Mikroalg Üretimi, 2016 - 2018

Metrics

Publication: 24

Citation (WoS): 16

Citation (Scopus): 152

H-Index (WoS): 2

H-Index (Scopus): 8