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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, Turkey 2024 - Continues

Postgraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, Turkey 2021 - 2024

Undergraduate, Ege University, Faculty Of Engineering, Biyomühendislik Bölümü, Turkey 2017 - 2021

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Health Sciences, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2022 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Microfluidic Chip-Assisted Separation Process and Post-Chip Microalgae Cultivation for Carotenoid Production**
Karacaoğlu B., Koçer A. T., İnan B., Bütün İ., Mercimek R., Ghorbani M., Koşar A., Balkanlı D.
JOURNAL OF APPLIED PHYCOLOGY, vol.1, no.1, pp.1, 2024 (SCI-Expanded)
- II. Thermal behavior analysis and biochar formation through co-pyrolysis of de-oiled microalgae biomass and wood sawdust for ecofriendly resource utilization**
Koçer A. T., İnan B., Karaca G. A., Karacaoğlu B., Balkanlı D.
ALGAL RESEARCH, no.82, pp.1-13, 2024 (SCI-Expanded)
- III. Microfluidic systems as a novel approach for microalgal bioprocess**

Articles Published in Other Journals

- I. **Multidisciplinary perspective: A review of the importance of communication in managing climate change challenges**
KARACAOĞLU B., AKBABA M. F.
Environmental Research & Technology, vol.7, no.3, pp.457-470, 2024 (Peer-Reviewed Journal)
- II. **Leaders of change: Children and the climate change movement**
KARACAOĞLU B., AKBABA M. F.
Sigma Journal of Engineering and Natural Sciences, vol.42, no.4, pp.957-964, 2024 (ESCI)
- III. **Recent advances in health biotechnology during pandemic**
Arı Yuka S., Akpek A., Özarslan A., Vural A., Koçer A. T., Aslan A., Karaaltın A. B., Gök B., Yılmaz B. B., İnan B., et al.
Sigma Journal of Engineering and Natural Sciences, vol.41, no.3, pp.625-655, 2023 (ESCI)

Books & Book Chapters

- I. **The importance of downstream processes in algae biorefinery concept**
İnan B., Koçer A. T., Karaca G. A., Karacaoğlu B., Balkanlı D.
in: Algal Bioreactors Vol 2: Science, Engineering and Technology of Downstream Processes, Eduardo Jacob-Lopes, Leila Queiroz Zepka, Mariany Costa Depra, Editor, Elsevier Science, Oxford/Amsterdam, London, pp.37-55, 2024
- II. **Design and control of nanorobots and nanomachines in drug delivery and diagnosis**
Ulucan-Karnak F., Camci-Unal G., Karacaoğlu B., Seydibeyoğlu M. Ö.
in: Handbook of Artificial Intelligence in Drug Delivery, Anil Philip, Aliasgar Shahiwala, Md. Faiyazuddin, Mamoon Rashid, Editor, Academic Press, Massachusetts, pp.371-394, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Empowering Greener Future: Incorporating Sustainable Biotechnology, Youth Perspectives, and Digital Communication for Worldwide Ecological Solutions**
Karacaoğlu B., Akbaba M. F.
International Sustainability In Life Congress, Aydın, Turkey, 19 - 22 May 2024, pp.93
- II. **FABRICATION OF A MICROFLUIDIC PLATFORM FOR THE ISOLATION OF POLAR MICROALGAE FROM ANTARCTICA**
Karacaoğlu B., Bütün İ., Mercimek R., İnan B., Koşar A., Balkanlı D.
AlgaEurope 2023, Praha, Czech Republic, 12 - 15 December 2023, pp.1-2
- III. **Chlorella minutissima İLİMAN MİKROALGİNİN Chlorella variabilis YTU.ANTARCTIC.001 KUTUP MİKROALGI İLE KO-KÜLTÜR ÇALIŞMALARI**
Karacaoğlu B., İnan B., Koçer A. T., Balkanlı D.
7. Ulusal Kutup Bilimleri Sempozyumu, İstanbul, Turkey, 04 December 2023
- IV. **Kutup Mikroalglerinin Mikroakışkan Yöntemler ile Ayrıştırılması ve Zenginleştirilmesi**
Karacaoğlu B., İnan B., Koşar A., Balkanlı D.
7. Ulusal Kutup Bilimleri Sempozyumu, İstanbul, Turkey, 04 December 2023
- V. **Pyrolysis Characteristics and Kinetics of Microalgal Residues**
Koçer A. T., Karaca G. A., Karacaoğlu B., Özçimen D.
6th EurAsia Waste Management Symposium, İstanbul, Turkey, 24 - 26 October 2022

- VI. **Microfluidic systems as a novel approach for microalgal bioprocess**
KARACAOĞLU B., ÖZÇİMEN D.
III. International Enzyme and Bioprocess Days, Tokat, Turkey, 9 - 11 September 2022
- VII. **Bacillus safensis production towards biocontrol applications**
VEHAPİ M., İNAN B., KAYACAN S., KARACAOĞLU B., SAĞDIÇ O., ÖZÇİMEN D.
III. International Enzyme and Bioprocess Days, Tokat, Turkey, 9 - 11 September 2022
- VIII. **Optimization of high value-added pigment production from Chlorella variabilis YU.ANTARCTIC.001**
Koçer A. T., İNAN B., KARACA G. A., KARACAOĞLU B., ÖZÇİMEN D.
III. International Enzyme and BioprocessDays EBDays 2022, Turkey, 9 - 11 September 2022

Supported Projects

Özçimen D., Karacaoğlu B., TUBITAK Project, Kutup Bölgelerinden Elde Edilen, Karışık Mikroorganizma Popülasyonlarına Sahip Örneklerden Mikroalglerin Ayrılması için Yeni Mikroakışkan Platform Tasarlanması ve Fabrikasyonu, 2023 - 2024

Balkanlı D., İnan B., Koçer A. T., Karaca G. A., Karacaoğlu B., TUBITAK Project, Uzay Koşullarında Antarktika ve İlman Mikroalg Yetiştiriciliğinin Karşılaştırmalı Bir Çalışması (ALGALSPACE), 2023 - 2024

Bedir E., TUBITAK Project, Bazı Potent Telomeraz Aktivatörlerinin Fungal Biyotransformasyon ile Üretimine Yönelik Proseslerin Optimizasyonu, Transformasyondan Sorumlu Enzimlerin Elde Edilmesi ve Karakterizasyonu, Üretilen Moleküllerin Rejeneratif Tıpta Kullanım Potansiyellerinin Araştırılması, 2020 - 2022

Karacaoğlu B., TUBITAK Project, Production of Commercial Biink with Locust Bean Gum/Bacterial Cellulose Whisker Additive for Bone Tissue Engineering, 2021 - 2021

Karacaoğlu B., Şendemir A., Project Supported by Higher Education Institutions, 3D Bioprinting and in vitro Evaluation of Hydroxyapatite/Locust Bean Gum Composite for Bone Tissue Engineering, 2020 - 2021

Metrics

Publication: 17

Citation (Scopus): 5

H-Index (Scopus): 1