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Education Information

Doctorate, Ege University, Graduate School of Natural and Applied Sciences, Biotechnology, Turkey 2013 - 2018

Research Areas

Natural Sciences

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Biovalorization of Lignin-Derived Substrates to Vanillylamine via a Self-Sufficient Amino Donor and Cofactor Recycling Whole-Cell Platform.**
Liaqat F., Khazi M. I. B., Ji T., Liaqat N., Le Y., Al-Ghanim K. A., Nawaz M. Z., Barceló D., Zhu D.
Environmental research, pp.120112, 2024 (SCI-Expanded)
- II. **Lignin biotransformation: Advances in enzymatic valorization and bioproduction strategies**
Ji T., Liaqat F., Khazi M. I. B., Liaqat N., Nawaz M. Z., Zhu D.
Industrial Crops and Products, vol.216, 2024 (SCI-Expanded)
- III. **Development of an efficient process to extract C-phycocyanin from marine cyanobacterial strains and evaluation of its bioactive potential**
Khazi M. I. B., Demirel Z., Liaqat F., Eltem R., Conk Dalay M.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, no.NA, pp.1-10, 2024 (SCI-Expanded)
- IV. **Fermentation, functional analysis, and biological activities of turmeric kombucha**
Khazi M. I. B., Liaqat F., Liu X., Yan Y., Zhu D.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.104, no.2, pp.759-768, 2024 (SCI-Expanded)
- V. **Advances in the vanillin synthesis and biotransformation: A review**
Xu L., Liaqat F., Sun J., Khazi M. I. B., Xie R., Zhu D.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.189, 2024 (SCI-Expanded)
- VI. **Extraction, purification, and applications of vanillin: A review of recent advances and challenges**
Liaqat F., Xu L., Khazi M. I. B., Ali S., Rahman M. U., Zhu D.
INDUSTRIAL CROPS AND PRODUCTS, vol.204, 2023 (SCI-Expanded)
- VII. **Astaxanthin production from the microalga *Haematococcus lacustris* with a dual substrate mixotrophy strategy**
Khazi M. I. B., Liaqat F., Gu W., Mohamed B., Zhu D., Li J.
BIOTECHNOLOGY JOURNAL, vol.18, no.10, 2023 (SCI-Expanded)

- VIII. **Utilization of glycosyltransferases as a seamless tool for synthesis and modification of the oligosaccharides-A review**
Ali M. Y., Liaqat F., Khazi M. I. B., Sethupathy S., Zhu D.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.249, 2023 (SCI-Expanded)
- IX. **Characterization of different chitosanases of *Bacillus* strains and their application in chitoooligosaccharides production**
Liaqat F., Akgun I. H., Khazi M. I. B., ELTEM R.
JOURNAL OF BASIC MICROBIOLOGY, vol.63, no.3-4, pp.404-416, 2023 (SCI-Expanded)
- X. **Natural deep eutectic solvents-based green extraction of vanillin: optimization, purification, and bioactivity assessment**
Xu L., Liaqat F., Khazi M. I. B., Sun J., Zhu D.
FRONTIERS IN NUTRITION, vol.10, 2023 (SCI-Expanded)
- XI. **Mixotrophic cultivation of microalgae for carotenoid production**
Liaqat F., Khazi M. I. B., Bahadar A., He L., Aslam A., Liaquat R., Agathos S. N., Li J.
REVIEWS IN AQUACULTURE, vol.15, pp.35-61, 2023 (SCI-Expanded)
- XII. **Acclimation and Characterization of Marine Cyanobacterial Strains *Euryhalinema* and *Desertifilum* for C-Phycocyanin Production**
Khazi M. I. B., Li C., Liaqat F., Malec P., Li J., Fu P.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.9, 2021 (SCI-Expanded)
- XIII. **Sequential Continuous Mixotrophic and Phototrophic Cultivation Might Be a Cost-Effective Strategy for Astaxanthin Production From the Microalga *Haematococcus lacustris***
Khazi M. I. B., Shi L., Liaqat F., Yang Y., Li X., Yang D., Li J.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.9, 2021 (SCI-Expanded)
- XIV. **Evaluation of growth and phycobiliprotein composition of cyanobacteria isolates cultivated in different nitrogen sources**
Khazi M. I. B., Demirel Z., Dalay M. C.
JOURNAL OF APPLIED PHYCOLOGY, vol.30, no.3, pp.1513-1523, 2018 (SCI-Expanded)
- XV. **Sequential optimization and kinetic modeling of L-asparaginase production by *Pectobacterium carotovorum* in submerged fermentation**
Sanjeeviroyar A., Rajendran A., Muthuraj M., Basha K. M., Thangavelu V.
ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING, vol.5, no.5, pp.743-755, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Variation in growth, fucoxanthin, fatty acids profile and lipid content of marine diatoms *Nitzschia* sp. and *Nanofrustulum shiloi* in response to nitrogen and iron**
ŞAHİN M., Khazi M. I. B., Demirel Z., Dalay M. C.
BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, pp.390-398, 2019 (ESCI)
- II. **Enhancement of biomass and phycocyanin content of spirulina platensis**
Khazi M. I. B., Demirel Z., Dalay M. C.
Frontiers in Bioscience - Elite, vol.10, no.2, pp.276-286, 2018 (Scopus)

Books & Book Chapters

- I. **Antimicrobial studies of metal oxide nanomaterials**
Liaqat F., Khazi M. I. B., Awan A. S., Eltem R., Li J.
in: Metal Oxide-Carbon Hybrid Materials, Muhammad Akram Chaudhry, Rafaqat Hussain, Faheem K. Butt, Editor, Elsevier Science, Oxford/Amsterdam, Amsterdam, pp.407-435, 2022
- II. **Analytical Grade Purification of Phycocyanin from Cyanobacteria.**

Khazi M. I. B., Demirel Z., Liaqat F., Dalay M. C.

in: Biofuels from Algae, Kristian Spilling, Editor, Humana Press, Inc. , New York, pp.173-179, 2019

Patent

Khazi M. I. B., Li J., Method for culturing Haematococcus pluvialis to produce natural astaxanthin, Patent, CHAPTER A Human Needs, The Invention Registration Number: CN202111051171.3 , Standard Registration, 2021

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