

## Asst. Prof. MAHAMMED ILYAS BASHA KHAZI

### Personal Information

Office Phone: [+90 224 294 1852](tel:+902242941852)

Email: [ilyaskhazi@uludag.edu.tr](mailto:ilyaskhazi@uludag.edu.tr)

Web: <https://avesis.uludag.edu.tr/ilyaskhazi>

### International Researcher IDs

ScholarID: Jxlot4oAAAAJ

ORCID: 0000-0002-9159-2819

Yoksis Researcher ID: 409705

### Education Information

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

### Research Areas

Natural Sciences

### Courses

#### Undergraduate

MİKROALGAL BİYOTEKNOLOJİ, Undergraduate, 2024 - 2025

FERMANTASYON TEKNOLOJİSİ , Undergraduate, 2024 - 2025

Endüstriyel Mikrobiyoloji, Undergraduate, 2023 - 2024

Enzim Teknolojisi, Undergraduate, 2023 - 2024

### 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-phycoerythrin 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, vol.99, no.8, pp.1897-1906, 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 chitooligosaccharides 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

### 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

## Peer Reviews in Scientific Publications

BIOORGANIC CHEMISTRY, Journal Indexed in SCI-E, February 2025

ALGAL RESEARCH, Journal Indexed in SCI-E, February 2025

Journal of Hazardous Materials, Journal Indexed in SCI-E, January 2025

BIOTECHNOLOGY ADVANCES RESEARCH REVIEWS AND PATENT ABSTRACTS, Journal Indexed in SCI-E, December 2024

## Metrics

Publication: 19

Citation (WoS): 294

Citation (Scopus): 294

H-Index (WoS): 8

H-Index (Scopus): 9