

ELİF EREZ

IZTECH/Department of Food Engineering
Ph.D. Student-Research&Teaching Assistant



EDUCATION

Ph.D. in Food Engineering Department

[Izmir Institute of Technology \(IZTECH\) - TR](#)

[Sep 2022] - [Ongoing]

Interest in Bioactive Compounds, Biopolymers, Chemometry, Electrospinning, Intelligent Packaging, Optimization

M.Sc. in Food Engineering Department

[Izmir Institute of Technology \(IZTECH\) - TR](#)

[Sep 2018] - [Aug 2022]

Thesis Title: Fabrication of Colorimetric pH Indicator Films by Electrospinning
GPA: 3.79/4.00

M.Sc. in Food Engineering Department

[Middle East Technical University \(METU\) – TR](#)

[Sep 2016] - [May 2018]

GPA: 3.79/4.00

(The study of thesis was never started because I was accepted as a research and teaching assistant in IZTECH in İzmir.)

B.Sc. in Food Engineering Department

[Middle East Technical University \(METU\) – TR](#)

GPA: 2.9/4.00

[Sep 2011] - [June 2016]

Final Design Projects: Pumpkin Butter (spreadable pumpkin) sponsored by Pepsico & Antioxidant Enriched Red Beet and Spinach Maras Ice Cream

RESEARCH CAREER

Laboratory Membership- M.Sc.

Laboratory of Food Biopolymers and Nanotechnology Applications
[May 2019] - [Ongoing] in [Food Engineering Department, IZTECH - TR](#)

- Ultrasound-assisted Extraction
- Project No: 2020IYTE0077- Optimization of the Extraction Conditions of Purple Basil (*Ocimum Basilicum L.*) Anthocyanins by Ultrasound-assisted Extraction

Laboratory Membership- M.Sc.

Laboratory of Instrumental Analysis

[May 2021] – [July 2022] in [Chemistry Department, IZTECH - TR](#)

- Electrospinning

PROFILE

I am an ambitious researcher and a highly motivated Ph. D. Student in food science. My research experiences include optimization studies related with extraction of bioactive compounds and fabrication of potential intelligent packaging material by encapsulating bioactive compounds via electrospinning in food industry.

Equipment: Electrospinning, Colorimeter, UV-Visible Spectroscopy

CONTACT INFORMATION

WEB SITE:

[in](#) eliferez

E-MAIL:

eliferez@iyte.edu.tr

HOBBIES

Tango
Music
Go on a nature walk
Bowling
Volleyball

CONFERENCES

5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022)

Participant / Oral Presentation (Online) URL: https://youtu.be/CiOnt9n6M_0

Title: Optimization of ultrasound-assisted extraction of purple basil (*Ocimum basilicum. L.*) extracts by response surface methodology in pursuit of effective natural pH-indicator dyes

PUBLICATION

Erez, E., Bayramoglu, B.(2024).Evaluation of the extracts of purple basil (*Ocimum basilicum. L.*) as natural pH-indicator dyes anticipated to be utilized in intelligent food packaging-an optimization study (doi :10.1111/cote.12754)

'In Preparation'-Fabrication and Characterization of Electrospun Polycaprolactone nanofibers containing purple basil extract (*Ocimum basilicum. L.*) as Colorimetric pH Indicator Films for Intelligent Packaging Purposes

TEACHING ASSISTANT CAREER

Izmir Institute of Technology (IZTECH) - TR

[Oct 2018] - [Ongoing]

FE202 - Fluid Mechanics, FE204 - Numerical Methods in Engineering , FE211- Basic Programming for Engineers , FE301 – Heat Transfer, FE303 - Thermodynamics , FE419 - Instrumental Analysis in Foods and Nutrition

INTERNSHIP EXPERIENCES

July2015 - Macit Dairy Farm-Food Production Factory, Ankara, Aug2015 - Public Bakery Factory,Ankara

Aug2014 - ÜLKER Biscuit Factory, Ankara

MEMBERSHIPS

2015-2016 - METU Institute of Food Technologists (IFT)

2013-2015 - IEEE METU Women in Engineering (WIE)

CERTIFICATES

ISO 22000:2005, ISO 9001:2015, Good Manufacturing Practices (GMP), British Retail Consortium (BRC)

SOFTWARE SKILLS

MS Office, C Programming (Beginner), MATLAB, Minitab, Image J, Origin

LANGUAGES

Turkish (Native), English (Fluent), French (Beginner)

ORCID ID

0000-0001-5998-0160

REFEREES

Assoc. Prof. Dr. Beste BAYRAMOĞLU @ Food Engineering Department, IZTECH - TR

M.Sc. Thesis Advisor & Lecturer & e-mail: bestebayramoglu@iyte.edu.tr (Website:bayramoglu@iyte.edu.tr)

Prof. Dr. Ahmet Emin EROĞLU @ Chemistry Department, IZTECH - TR

M.Sc. Thesis Co-Advisor & Lecturer & e-mail: ahmeteroglu@iyte.edu.tr

Prof. Dr. Durmuş ÖZDEMİR@ Chemistry Department, IZTECH - TR

M.Sc. Member of Thesis Committee & Lecturer e-mail: durmusozdemir@iyte.edu.tr