



ONUR İPEK

Chemical Engineer

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Inonu St. 229 Izmir/Turkey

Research Interest

My research interest centers on material science, driven by the quest to explore new materials and unlock their potential. My goal is to contribute to the future by developing innovative materials that align with demands of humanity and sustainability.

Education

Izmir Institute of Technology (IZTECH)

Sep 2021 – Jun 2024

Master's Degree, Chemical Engineering

Thesis: Synthesis and performance of PVC/PAN granulated Ti-type lithium-ion sieve for recovery of lithium from geothermal water

English, 3.14/4.00

Izmir, Turkey

Izmir Institute of Technology (IZTECH)

Sep 2017 – Jun 2021

Bachelor's Degree, Chemical Engineering

Thesis: Degradation of dye with Zn-based Metal-Organic Framework: a review

English, 3.00/4.00

Izmir, Turkey

Work Experience

Kansai Altan – R&D Engineer

Nov 2021 – Jan 2023

Paint Industry and Trade Inc.

Automotive Coatings - Plastic Components

Development, improvement and preparation of sprayable coating formulations for interior and exterior automotive plastic components, solving the problems that occur during the production or application of products, conducting formulation modifications to reduce the cost of products, communication with customers to learn demands and complaints, issuing quality assurance documents in accordance with IATF 16949

TÜPRAŞ – Engineer Internship

July 2021

Turkey Petroleum Refineries

Internship

Accompanied the processing of crude oil, proposed a theoretical project for sustainability for the refinery as a multidisciplinary group

TÜBİTAK SAGE – Engineer Internship

August 2020

Defense Industries R&D Institute

Internship at Thermal Battery Unit

Learned the fundamentals of electrochemistry, accompanied the production line of thermal battery

Language Knowledge

Turkish – Native Speaker
English – Advanced
Dutch – Beginner (still in progress)

Software Knowledge

– Microsoft Office – Mathcad
– MATLAB – Polymath



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Research & Projects

- 2022 - Use of Zn-MOF in Dye Removal (TÜBİTAK 2209-A project)
- 2021 - Sorbitol production from residual forestry biomass: techno-economic assessment (design project)
- 2021 - Degradation of dye with Zn-based Metal-Organic Framework: a review (BS thesis)
- 2021 - Sustainable Campus and Energy – Theoretical Project
- 2021 - Separation system design for purification of ethylbenzene
- 2020 - Design of fluidized bed reactor for catalytic hydrogenation of nitrobenzene
- 2020 - Design of a flash drum and multistage distillation column units for the purification of cumene
- 2019 - Removal of Rhodamine B (RhB) from polluted waters by photocatalytic oxidation with composite photocatalyst: a review
- 2018 - Preparation and characterization of mesoporous acid catalyst for epoxidizing soybean oil

Certificates

Six Sigma Academy Amsterdam - Lean/Six Sigma Black Belt (2024)

Scorleo - AIAG&VDA DFMEA and PFMEA Training Certificate (2022)

İzmir Institute of Technology - Environmental and Energy Technologies Track Certificate (2021)

İzmir Institute of Technology - Certificate of Honor (2017-2018 Fall, 2019-2020 Fall, 2020-2021 Fall, 2020-2021 Spring)

MATLAB - Onramp Course Completion Certificate (2020)

Interests

🎵 - Music Production

🎸 - Playing Guitar

🚤 - Sailing

🏊 - Swimming

🎮 - Video Games

References

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Murat GÖKSOY

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