

MERVE ARPACIOGLU



Address: Istanbul
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Work Experience

Istanbul (Turkey)
10/2021 - 09/2022

Technology Transfer and Technical
Services Assistant Specialist
Birgi Mefar Group

- Preparation of packaging specification, preparation of packaging process validation protocol, standard operation procedures, manufacturing batch records and process validation protocols,

Izmir (Turkey)
11 / 2020 - 05 2021

R&D Chemist
Kemisan Klor – Alkali A.S.

- Maintaining Cl analysis by titration
- Surveying literature and standard methods for the trace amount of determination of H_2O_2 , O_3 , ClO^-
- Participating in a project of the Scientific and Technological Research Council of Turkey

Izmir (Turkey)
08/2020 - 02/2020

Project Assistant
Izmir Institute of Technology

- One-pot synthesis of zeolitic imidazolate framework-8 (ZIF-8) for drug delivery purposes
- Characterization of ZIF-8 compounds by using PXRD, FTIR, SEM, TGA, UV-vis, drug release determination

Education

09/2017 - Currently Doctor of Philosophy in Life Sciences (EFQ Level:8)
La Sapienza, University of Rome

- Development/synthesis of small drug molecules

09/2017 - 07/2020 Master of Science in Biotechnology (EFQ Level:7)
Izmir Institute of Technology

- Master thesis name: Development of Dual Therapy Opportunities Based on Crystal Engineering Principles
- Design of drug-drug combinations for both Tuberculosis and Prostate Cancer
- Skills involved: PXRD, TGA, UV-vis Spec., FTIR, BET, synthetic strategies
- Educational language: English
- Graduation grade: 3.14 / 4

09/2012 - 07/2017 Bachelor of Science in Chemistry (EFQ Level:6)
Izmir Institute of Technology

- Graduation project: Application of peptides on Electrospray Ionization Mass Spectrometry
- Educational language: English
- Graduation grade: 2.94 / 4
- 2nd ranking

Skills

- Wet Chemistry, - Literature and patent surveying
- Conducting new project ideas
- Chemistry - Biotechnology
- Microsoft: Word, Excel, Powerpoint
- Good presentation skills
- Project follow-up skills
- Fluency in both written and spoken English
- Proactive, initiative-taker
- Good communication, interpersonal skills and adaptability
- Multitasking/coordination skills
- Team player/individual
- Cross-cultural sensitivity
- B class driving license
- Availability to relocate/travel domestically and internationally

Languages

English: Working Proficiency/C1
Turkish: Native

Volunteering

Head of IZTECH IAESTE

September 2015 - September 2017

- Coordinating the arrangement of local trainee positions
- Organizing labor division among volunteering students
- Organization of staying and working details of upcoming trainees

Student Exchange

Kiel (Germany)

07/2017 - 09/2017

Research Trainee

Christian-Albrechts-University zu Kiel with IAESTE

- Focus: Synthesis and characterization of metal-organic frameworks
- Research article of the project: Direct water-based synthesis and characterization of new Zr/Hf-MOFs with dodecanuclear clusters IBU

Lisbon (Portugal)

02/2019 - 07/2019

Master Thesis Research Mobility

Istituto Superior Tecnico

- Thesis name: Improving the physicochemical properties of antibiotics by using crystal engineering principles
- Design of novel multicomponent crystal forms of Sparfloxacin in order to improve solubility issues
- Skills involved: PXRD, TGA, FTIR, Room humidity test, inorganic synthesis

Rome (Italy)

05/2021 - 08/2021

Research Trainee

La Sapienza, University of Rome, Dipartimento di Chimica e tecnologie del farmaco

- Development/synthesis of small drug molecules, Inhibition of carbonic anhydrase antibiotic
- Skills involved: NMR, FTIR, Mass spectrum, organic synthesis, Methods of purification; TLC; Column chromatography

Publication

- Direct water-based synthesis and characterization of new Zr/Hf-MOFs with dodecanuclear clusters as IBUs