

# Fathima Abdul Rahim

MSc Applied Chemistry

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Dedicated post-graduate with an intuitive ability to understand and master a wide variety of technical equipments. Sound knowledge of analytical chemistry principles and methods with the ability to interpret results. Excellent team building, interpersonal and motivational skills. Exceptional oral and written presentations skills.

## Skills

Knowledge of safe lab practices, lab techniques and quality management principles	Advanced
Technical Skills- UV-visible spectrometer, vibrating sample magnetometer, FTIR spectrometer, Zeta Nanosizer, TGA-DSC	Advanced
Computer Skills: ChemDraw, Origin, ImageJ, Excel	Advanced
Communication Skills: Fluent in Malayalam, English and Hindi	Advanced
Organizations and Time Management Skills	Advanced

## Education

2020-11 - 2022-08	<b>Master of Science: MSc Applied Chemistry</b> <i>University of Calicut, Malappuram - Malappuram</i> <ul style="list-style-type: none"><li>Secured 5th rank in Calicut University with 82%</li></ul>
2017-06 - 2020-03	<b>Bachelor of Science: BSc Chemistry</b> <i>Christ College, Irinjalakuda - Irinjalakuda, Thrissur, Kerala</i> <ul style="list-style-type: none"><li>Graduated with 94.2%.</li></ul>
2015-06 - 2017-04	<b>High School Diploma</b> <i>Don Bosco School, Irinjalakuda - Irinjalakuda, Thrissur, Kerala</i> <ul style="list-style-type: none"><li>Graduated with 97.33%</li></ul>

## Achievements

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Received INSPIRE Scholarship- 2017-2022

## Project Details

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### **Extraction of alkaloids from different plants :**

In the project work , alkaloids has been extracted from different varieties of plants using Soxhalet Apparatus and separated using TLC. The presence of alkaloid was confirmed by picric acid in benzene. The project was done as a part of BSc Chemistry curriculum.

### **Preparation of magnetic nanofibres using electrospinning technique in oil removal:**

Fe<sub>3</sub>O<sub>4</sub>/PVDF nanofibers were synthesized by electrospinning technique. Fe<sub>3</sub>O<sub>4</sub> nanoparticles were synthesized using coprecipitation and hydrothermal method . The fibers were characterized by XRD, XPS, SEM AND VSM. The nanofibers were used for oil removal application. The project was done as a part of MSc Chemistry Curriculum in IGCAR (Indira Gandhi Center for Atomic Research)

A manuscript based on my research project is in the final round of correction for submission to a reputed international journal.

## Industrial Exposure

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Industrial Visit at:

Carborundum Universal Ltd , SIC plant, Koratty ,Kerala

Implant Training at:

Online summer internship on "Recent Advances in Chemical Sciences (RAICS)organized by Department of Chemistry, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai

## Interests

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Bioinorganic Chemistry, Organomettals, Coordination Chemistry, Nano Chemistry

## References

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## Declaration

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I hereby declare that all the above furnished information is true and correct to the best knowledge and belief.