

Augustine Jaison

RESEARCH ASSISTANT · IIT PALAKKAD, INDIA

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Career Objective

Attentive and organized individual with experience in research from Indian Institute of Technology along with Master's degree in Chemistry, bringing excellent research skills, collaborative and communication skills. To excel in my field through smart work, constant learning, and providing service to society, I like to do my job in the interdisciplinary field involving Nanotechnology and Materials chemistry as it fascinates and motivates me towards various fundamental aspects of science.

Personal Details

- DOB – 27/03/1997
- Nationality – Indian
- Marital Status – Single
- Languages Known – English, Malayalam, Hindi

Work Experience

IIT Palakkad
RESEARCH ASSISTANT

Kerala, India

July 2021 - Present

- Performed various oxidation and reduction reactions like Ethylene oxidation and CO₂ hydrogenation using Gas Chromatography with various metal oxide catalysts.
- Set up the gas phase catalysis reactor with thermal and photo catalytic chamber and performed oxidation of harmful Volatile Organic Compounds (VOC) oxidation like Benzene, Toluene etc.
- Working on Laser-Assisted and CVD mediated synthesis of Graphene film and exploring the use of Graphene in gas sensing applications.

Skills

TECHNICAL SKILLS

- Gas Chromatography
- IR Spectroscopy
- Chemical Vapor Deposition
- UV-Visible Spectroscopy
- Muffle furnace
- Organic Synthesis

DIGITAL SKILLS

- MS office
- Chemdraw
- Origin
- Avogadro

SOFT SKILLS

- Good communication skill
- Good interpersonal skills
- Ability to empathize with my colleagues and co-operate with them

Projects Done

- *MSc Project: **Green Ag Nanoparticle Synthesis from Carica Papaya fruit extract*** – Silver nanoparticles were synthesized by the novel microwave-assisted method using the phytochemicals extracted from the medicinally important plant Carica Papaya as both reducing and capping agent. The effect of microwave radiation in the synthetic pathway is also studied.
- *BSc Project: **Some Important Experiments in Green Chemistry*** – Organic preparations like acetylation of primary amines, nitration of Phenol and its derivative, bromination of Acetanilide were carried out using greener procedures.

Education

MSc Chemistry

Kerala, India
2018-2020

- St. George College Aruvithura, affiliated to MG University Kerala
- CGPA 3.4 out of 4

BSc Chemistry

Kerala, India
2015-2018

- St. Thomas College Pala, affiliated to MG University Kerala
- CGPA 9.23 out of 10

Higher Secondary

Kerala, India
2013-2015

- St. Augustine's HSS Ramapuram, affiliated to State Board Kerala
- Percentage of marks 96.5 %

Matriculation

Kerala, India
2010-2013

- St. Augustine's HSS Ramapuram, affiliated to State Board Kerala
- Percentage of marks 93 %

Achievements

PUBLICATION: **Thermal Oxidation of Ethylene using Cu Doped TiO₂** (Writing)

K.Rajendran¹, S.Mandeep¹, Ankit.D.Tiwari¹, J.Augustine¹, and Dr. Dinesh Jagadeesan^{1*}

- Coordinated ATMOS 2k18 – All Kerala Infotainment Fest

References

Dr. Siby Joseph Assistant Professor, Department of Chemistry, St. George College Aruvithura, Kerala. Mobile: +91 9446126054 siby@sgcaruvithura.ac.in	Dr. Dinesh Jagadeesan Associate Professor, Department of Chemistry, IIT, Palakkad, Kerala. Mobile no: +91 8308646478 d.jagadeesan@iitpkd.ac.in	Dr. Tessymol Mathew Assistant Professor, Department of Chemistry, St. George College Aruvithura, Kerala. Mobile no: +91 9447290973 tessymol@sgcaruvithura.ac.in
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