

YOGESHKUMAR RUPELIYA



PERSONAL DATA

Nationality	Indian
Place of birth	Nagalpar, India
Date of Birth	16.08.1996
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EDUCATION

Oct 2020 - Present

Masters of Science in Advanced Functional Materials (2.27 GPA)
Chemnitz University of Technology – Chemnitz

Major Modules:

Semiconductor physics - Nano structures, Photovoltaics with Nano technology, Advanced surfaces, Thin films and interfaces, Facets of materials science, Materials in Micro and Nano technologies, Analytical methods, Sustainable production technologies, Printed Functionalities

July 2016 - Apr 2018

Masters of Science in Physics (Material physics - 2.7 GPA)
A.N. Patel Postgraduate Institute of science and Research, Anand, India

Major Modules:

Mathematical Physics and Computer programming, Nuclear and Particle Physics, Theoretical solid state Physics, Applied Crystallography and Biophysics, Crystal growth and Imperfections in Solid and Thin-film Physics

Jun 2013 - Apr 2016

Bachelor of Science in Physics (2.8 GPA)
Sheth R. A. Bhavan's college of science, Ahmedabad, India

Major Modules:

Mathematics, Mathematical Physics, Classical Physics, Quantum Physics, Solid State Physics, Linear and Non-linear system, Electromagnetism, Electronic circuits, Nanoscience and Nanotechnology, Nuclear Physics

WORK EXPERIENCE

Dec 2021 - Dec 2023

Student and Research Assistant
Professorship of Chemical Technology, Chemnitz University of Technology – Chemnitz

- Synthesis of TiO₂ nanoparticles
- Characterization with different methods like Thermogravimetric analysis (TGA), PXRD for the structural analysis, UV/Vis for Spectrophotometric determination, DLS for Size distribution profile, IR Spectroscopy for the determination of functional groups, Data analysis and Graphing
- EndNote for citation of different research literatures
- Updating the database

Apr 2018 - Dec 2020

Assistant X-ray Technician
Shree Muktajivan Imagine Centre – Ahmedabad, India

- X-rays of a patient's body
- Responsible person for X-Ray instruments (lead shield)
- Developing radiographs and maintaining records

PROJECTS

Apr 2023 - Oct 2023

Research Project (2.0 GPA)

Chemnitz University of Technology – Chemnitz

Tunability of conductivity and morphology of PEDOT:PSS by Riboflavine

- Riboflavin is introduced as an additive to PEDOT: PSS films
- Investigation of how riboflavin affects the conductivity and morphology of PEDOT:PSS by enhancing the structural order of the polymer
- Organic Field-Effect Transistor (OFET) measurements are conducted to investigate the impact of Riboflavin on mobility of the charge carriers

Nov 2017 - Mar 2018

Research Project

A.N. Patel Postgraduate Institute of science and Research, Anand, India

Crystal growth and characterization of Urea and Thiourea by slow evaporation method

- Make solutions in the suitable solvent with proper quantity of Urea and Thiourea and covered with parafilm and made few holes
- Crystal growth by slow evaporation and characterized with different methods like UV/Vis-NIR spectroscopy, FT-IR spectroscopy

LANGUAGES

German (A2)

English (C1)

Hindi (C2)

Gujarati (C2)

SKILLS

Soft Skills

Positive attitude, Team Spirit, Creativity and New ideas, Hard and Smart work, Ability to learn, Communication, Self-motivated, Time management, Problem solving, Multitasking

Software and Programming tools

Python (Beginner), MATLAB (Beginner), Origin Pro (Advanced), MS Office (Intermediate), EndNote (Advanced), Adobe Premiere Pro (Advanced), Adobe Photoshop (Intermediate), Adobe After Effect (Intermediate), Image J (Intermediate), Gwiddion (Advanced)

Techniques and Devices

4-Point Probe, Spin Coating, UV/Vis Spectroscopy, TGA, Dynamic Light Scattering, Optical Microscopy, MicroJet Technology, PXRD, Atomic Force Microscopy

CERTIFICATES

05/2024

- Erasmus+ Youth Exchange Projects

01/2018

- Inter college Youth Festival and Cricket tournament

02/2016

- NATIONAL COLLOQUIUM on Research and Career Opportunity in Astronomy & Astrophysics

VOLUNTARY WORK

05/2024 - Present

- Participating and volunteering in different Erasmus+ projects on cultural exchange, education, and community development

09/2022 - Present

- Actively engaged in the Indian Cultural Center Chemnitz (ICC Chemnitz), as a core committee member. Contribution in strategic planning, organizing events, decorations, demonstrating a fervent commitment to making a positive impact of Indian Culture