Curriculum Vitae

Rajul Sharma

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Github:
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Shamli, Uttar Pradesh, India

Skills

- Problem Solver
- Ability to work in team
- Good communication Skill
- Management quality
- Leadership quality
- Confident

Computing Skills

- Quantum Computing: QISKIT (Beginner)
- Language 'Python' (Beginner)
- MS Office
- Origin (6.0)

Technical Proficiency

- Breadboard Circuit Design
- Electrochemical Spectroscopy, Metrom Nova 9.1.4 (Electro Chemical Test).
- Characterization Techniques
- Spin Coater (Holmarc).
- Microwave Reactor (MONOWAVE 450, MAS 24).

Personal Summary

To work on a new project with my full potential and can enhance my knowledge and skills in a team to achieve a common goal with deadlines.

Keen to find a challenging and suitable position with ambitious organization that offers opportunities for career development.

Academic Qualifications

- **M.Tech.** in **Nanotechnology** from Centre for Advanced Studies, Lucknow (An autonomous research and innovation driven Uttar Pradesh government institute) under session 2020-2022 with **CGPA 9.4/10** (**Goldmedalist**)
- **M.Sc** in **Physics (specialization in Electronics)** from Chaudhary Charan Singh University Campus, Meerut under session 2015-2017 with **70.6%**.
- **B.Sc** in **Physical Science(specialization in Electronics)** from S.G.T.B.Khalsa college, DU under session 2012-2015 with **80.4%.**
- **Intermediate (P.C.M)** from St. R.C Convent School Shamli, (CBSE board) under session 2012 with **79.6%.**
- **High School (Science)**, from St. R.C Convent School Shamli, (CBSE board) under session 2010 with **79.6%.**

Publications

- Drop cast coating of Leather dye on copper and investigation of its corrosion behavior in sodium chloride solutions by **Rajul Sharma**, Gopal Ji … et.al., ICMPC-330, 2022, Materials Today proceedings, doi https ::///doi org/ 10 1016 /j matpr 2022 02 571.
- Creation of Leather black dye film on Copper through spin coating and investigation of corrosion behaviour in 0.5M NaCl by **Rajul Sharma** A V Ullas and Gopal ji, published in Journal of Solid State Electrochemistry || Springer Nature , https://doi.org/10.1007/s10008-022-05293-w
- Synthesis of Chitosan/NiO Nanocomposite for Corrosion prevention of Copper in NaCl solution by Nitin Kumar Arya, **Rajul Sharma**, A.V. Ullas, Gopal Ji, ICAMCM-2022-0313, https://doi.org/10.1016/j.matpr.2022.08.056.
- Investigation on corrosion behaviors of silver and LDB coated silver wires in 0.5 M NaCl by Km Vikasika Verma, **Rajul Sharma** and Gopal Ji, ICAME-2022, 11, (accepted).

- Dewinter optical, Inc. microscope(FluorexLED)
- Microwave Reactor (MONOWAVE 450, MAS 24).
- Gynometer (DSA25S, KRUSS)

Interests

- Learning Quantum Computing
- Poetry
- Cooking
- Bhangra

Personal Details

Father's name: Rammohan Sharma
Mother's name: Usha Sharma
DOB: 26th July' 1995
Gender: Male
Marital status: Unmarried
Permanent Address: 566/22, Chaudhary Charan Singh Colony Shamli, U.P 247776

LANGUAGE KNOWN

- English (Official)
- Hindi (Native)
- Punjabi (Speaking only)

References

- Available upon request

Experience

- **Assistant Professor**
  Bhagwati Institute of Technology and Science, Ghaziabad
  August 2019 to December 2019
- **Assistant Professor**
  Sanskar Educational Group , Ghaziabad
  September 2022 to currently working

➢ Teach courses in Solid state physics, Electronics, Mechanics to undergraduate students.

Research Summary

- **M.Tech Thesis**

The main objective of this work is **to retard corrosion** of copper sheet using **organic materials**. Different techniques have been used to coat the metallic substrate with passivating material. These techniques are not only complex but also expensive, or provide inadequate protection in acidic media but **Drop casting and Spin coating techniques** are simple and cost-effective. This work investigates the potential of **Leather Black Dye** (LBD) for the inhibition of copper corrosion (CC) in 0.5M Sodium Chloride (NaCl). The LBD is investigated by FTIR, UV-Vis Spectroscopy, OCP curve, Tafel polarization curve (TPC), optical microscopy, Electrochemical impedance spectroscopy (EIS), and SEM.

Project

During M.Tech., I joined a program **Quantum Computing: Introduction to Algorithms and Implementation using QISKIT** organised by IISER Tirupati. At the end, a report was prepared on **OpenQASM** which explain the concept of quantum computing, Quantum circuit, Quantum Teleportation, Quantum error Correction with real time example.

Achievements

- **Gold Medal** in Master Degree of Engineering, 2022.
- 2014 All India Rank 24 in Delhi University Entrance Exam Electronics.
- 2014 Achieved NCC B-certificate by 5-DBN.
- 2013 Achieved NCC C-certificate by 5-DBN.

Certifications

- Completed course on **Quantum Computing: Introduction to Algorithms and implementation by using QISKIT** by Asst. Prof. Sambuddha Sanyal (IISER Tirupati).
- Completed course on **Quantum Computing Technical Foundations, Equinox AI and Database** by ASESSOFTEWARE (Thomas Clarke).
- Completed Course in **Basics of Quantum Mechanics** by Prof. H. C VERMA (IIT KANPUR).
- Completed Course in **Basics and Advanced of Special Theory of Relativity** by Prof. H. C VERMA (IIT KANPUR).
- Completed Course in **Learning Physics Through Simple Experiments** by Prof. H. C VERMA (IIT KANPUR).

Declaration

I hereby declare that all the information herein is true and correct to best of my knowledge and belief.