Divya Laxman Kaduskar

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Personal Details

Name: Divya Laxman Kaduskar

Gender: Female

DOB: 06/09/2001

Marital Status: Single

Nationality: Indian

Languages Known: English, Marathi, Hindi

Permanent Address: 1203 Ramdoh Ali, Wai, Tal. Wai, Dist. Satara, Maharashtra

Academic Qualifications

- **Master of Science (Physics)** – Karmaveer Bhaurao Patil University (May 2024) - 65.5%.
- **Bachelor of Science (Physics)** - Shivaji University, Kolhapur (Aug 2022) - 76.32%.
- **HSC** - Shivaji University, Kolhapur (Feb 2019) - 58.15%.
- **SSC** - Maharashtra State Board, Kolhapur (Mar 2017) - 83.80%.

Work Experience

M.Sc. Research Project
Synthesis, characterizations, and gas sensing application of Cadmium Ferrite Nanoparticles.

- Nanoparticles of Cadmium Ferrite ($CdFe_2O_4$) were prepared using the sol-gel method.
- Synthesized nanoparticles were characterized by X-ray Diffraction (XRD), Scanning Electron Microscopy (SEM), and UV-visible spectroscopy for structural and material studies.
- Synthesis and Application of Cadmium Ferrite Nanoparticles
  Utilized sol-gel techniques for nanoparticle synthesis, achieving approximately 20 nm particle size. Focused on structural and material studies for gas sensing applications.
- Published a research paper on Cadmium Ferrite synthesis in in-house publications of Yashwantrao Chavan Institute of Science, Satara.

Skills

- Expertise in material synthesis and characterization techniques (XRD, SEM-EDX, FTIR, DLS, UV-DRS).
- Skilled in using Origin 2016 for data analysis.
- Proficient in scientific and technical writing.
- Hands-on experience with Supercapacitor, Electrochemical, and Photoelectrochemical water splitting.

Technical Skills

- Ms-Word
- Ms-Excel
- Ms-Power Point

Instrumental Skills & Deposition Techniques

- Handling Potentiostat, UV-DRS spectroscopy, Spin Coater, SILAR, Chemical Bath Deposition, Hydrothermal methods, and Spray Pyrolysis techniques.
- Experience with Ultrasonicator, Centrifuge machine, Electrodeposition, and Doctor blade methods.
- **Synthesis and Application of Cadmium Ferrite Nanoparticles**
  Utilized sol-gel techniques for nanoparticle synthesis, achieving approximately 20 nm particle size. Focused on structural and material studies for gas sensing applications.

Strengths

- Positive attitude and self-motivated.
- Strong interpersonal communication and decision-making ability.
- Team player with the ability to work under pressure and meet deadlines.

Declaration

I hereby declare that the above-written particulars are true to the best of my knowledge and belief.

Date:

Place: Wai, Maharashtra, India

Divya Laxman Kaduskar