

KANCHAN PATHANIA

Permanent Address:- VILLAGE THER,POST OFFICE KUKHER,TEH.NURPUR,DIST. KANGRA (176211)
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OBJECTIVE

To associate with an institute which progress dynamically that will challenge and allow me to explore new technologies and utilise my talents in the field of Research and be among young researchers who will shape a better world.

Profile

- Rich domain knowledge with comprehensive understanding and practical knowledge of various techniques and laboratory skills.
- Analytical, prioritization and problem solving and leadership skills with ability to create and sustain high work tempo.
- Strong collaboration and team building skills with proficiency at grasping new technical concepts quickly and utilize the same in a productive manner.

Academic Qualification

Degree/ Education Level	College/School	University/ Board	Year of Passing/Appearing	Specialization	Percentage
Master of Science	Dept. Of Chemistry, ARNI University, INDORA Himachal pradesh	ARNI University	2018	CHEMISTRY	66.68
Bachelor of Science	MCM DAV College, KANGRA.	HPU University	2016	PHYSICS MATHS CHEMISTRY	78
12 th Standard	ROSE PUBLIC SCHOOL SULIALI	CBSE	2013	Physics, Chemistry, MATHS, Hindi and English.	67
10 th Standard	ROSE PUBLIC SCHOOL SULIALI	CBSE	2011	Science, Mathematics, Social Science, English and Hindi,COMPU TER	80

Areas Of Interest

It is the field of analytical chemistry, inorganic chemistry and physical chemistry. But physical chemistry grabbed my interest. Physical chemistry is the study of how matter behaves on a molecular and atomic level and how chemical reactions occur.

Physical chemists study a wide array of topics such as the rates of reactions (kinetics), the way that light and matter interact (spectroscopy), how electrons are arranged in atoms and molecules (quantum mechanics), and the stabilities and reactivities of different compounds and processes (thermodynamics). In all of these cases, physical chemists try to understand what is happening on an atomic level, and why. Students who concentrate in physical chemistry may go on to pursue careers in industry, research or teaching. A lot of the current physical chemistry research in industry and academia combines the techniques and ideas from several fields

Achievements

- Attended two days **science exhibition** program organized by ARNI UNIVERSITY.
- Participated in **science debate competition** held by chemistry department, arni univ.
- Participated in a two day **NATIONAL CONFERENCE ON BIODIVERSITY CONSERVATION & SUSTAINABLE DEVELOPMENT**
- Achieved **2nd position in chemistry Quiz competition** organized by Dept. of chemistry, Arni university
- **Study on nanoparticles during project period.**

PROJECT AND TRAINING

- I have done project on "classification characterization, synthesis of nanoparticles and its applications."
- Project in arni university.
- Preparation of Metal Nanoparticles
- ABOUT THE PROJECT:

It was predicted that using magnetic nanoparticles approximately 3 nm in size, which contain hundreds of atoms, one could make recording media of up to 1 Tb/in² in recording density, by correctly organizing the particles. FePt nanoparticles are candidate for developing ultra high density magnetic media. The FePt nanoparticles have been synthesized by mixing two precursor liquids: ferric acetyl acetonate, Fe(acac)₃, and platinum acetyl acetonate, Pt(acac)₂ in polyol solution of sodium hydroxide at high temperatures. The particle size distribution was monodisperse and the morphology was non agglomerating. Magnetic evaluation of samples annealed at high temperature indicated the high coercivity values close to 10 kOe at room temperature, even though the size of the particle is as low as a single nanometer (below 10 nm). The mass production of FePt nanoparticles has been performed by the continuous mixing method. The FePt nanoparticles have also many applications such as catalyst for fuel cells, drug delivery systems (DDS) and biosensors.

TOTAL EXPERIENCE- 6months

Teaching Experience

- Worked as Chemistry Faculty in Lakshay Institute Pathankot from 10 Aug 2017 to 2018 aug.
Role : Teaching Chemistry to +2 iit jee class students.
- Worked as Chemistry Faculty in carrer Institute of coaching Pathankot from aug 2018 to 8 Aug 2019.
Role : Teaching chemistry to +2 classes students.
- Worked as PGT Chemistry in RAMISHT PUBLIC SCHOOL from SEPT 2019 to TILL DATE.
Role : Teaching chemistry to 11th and 12th students.
- **TOTAL EXPERIENCE- 3year**

PERSONAL SKILLS

- Positive Attitude, Determined, High Energies
- Hard Working, and Sincere
- Good decision making and analytical skills
- Able to handle people in a very efficient way
- Multi-tasking and good verbal & communication ability
- Can work independently
- Good listener and learner

PERSONAL PROFILE

Name	:	KANCHAN PATHANIA
Father's Name	:	SHRI. JANGJIT SINGH PATHANIA
Date of birth	:	31-05-1995
Gender	:	FEMALE
Marital Status	:	Unmarried
Nationality	:	Indian
Languages Known	:	English, Hindi,Punjabi

DECLARATION:

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

Place : NURPUR (HIMACHAL PRADESH)

(Signature of candidate)

