

Aditya Goyal

Ph.D. Scholar, Materials and Nanotechnology
North Dakota State University, Fargo, ND
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EDUCATION

Doctor of Philosophy in Materials and Nanotechnology North Dakota State University <i>Starting June 16, 2022</i>	Expected Summer 2026
Master of Science in Physics (Specialization in Electronics) DIT University, Dehradun, Uttarakhand, India	May 2020

RESEARCH INTERESTS

Investigations to improve anti-fouling properties of membranes and develop cost-efficient membranes

RESEARCH EXPERIENCE

Post-Graduate Dissertation <i>Department of Physics, DIT University</i>	2018 - 2020
<ul style="list-style-type: none">Investigating the properties of Novel Lyotropic Liquid Crystals (LLC) under Polarizing Optical Microscope and UV-Vis Spectroscopy.Doping LLC with nanocomposites and E.coli bacteria to study their changing properties.Using LLC solution to adsorb Methyl blue and Rhodamine-B dyes from wastewater naturally.	

HONORS AND AWARDS

- Gold Medallist in Post-Graduation in Physics of batch 2018-2020.
- Topper in Post-Graduation in Physics of batch 2018-2020.

Publications

- Goyal, A., Singh, P., Chamoli, P., Raina, K. K., & Shukla, R. K. (2021). Eco-friendly Biowaste-based Natural Surfactant for lyotropic Assemblies and Bio-adsorbent for Dye Removal. *Inorganic Chemistry Communications*, 108871.

CONFERENCE PRESENTATIONS

POSTER PRESENTATIONS

- Goyal, A., Singh, P., Chamoli, P., Raina, K. K., & Shukla, R. K. Lyotropic Liquid Crystalline Phases Derived from Litchi Chinesis in Different Solvents (e-conference on Soft Matter, 2020, Sathyabama Institute of Science and Technology, Chennai, India)
- Goyal, A., Singh, P., Chamoli, P., Raina, K. K., & Shukla, R. K. Effect of E-Coli Bacteria Dispersion on Lyotropic Liquid Crystalline Phases derived from Syzygium Cumini (26th National Conference on Liquid Crystals, 2019, Chitkara University, Punjab, India)

- Goyal, A., Singh, P., Chamoli, P., Raina, K. K., & Shukla, R. K. One Step Green Synthesis of Fluorescent Carbon Particles from Fruit Seed (Conference on Carbon Materials, 2019, National Physics Laboratory (NPL), Delhi, India)
- Goyal, A., Singh, P., Chamoli, P., Raina, K. K., & Shukla, R. K. A Review on Production of Activated Carbon based Electrode using Bio-Waste for Ultra High Supercapacitor (International Conference on Nanotechnology for Better Living, 2019, Indian Institute of Technology(IIT), Kanpur, India)

PROFESSIONAL EXPERIENCE

**Project Assistant (DST-GATI Project) at
Indian Institute of Technology (IIT), Roorkee**

August,21 - April,22

Under Prof. Pranita P. Sarangi, Department of Biotechnology

- Collection and analysis of Data.
- Administrative tasks.
- Document Development.

Data Entry Operator at S.S Investments, Dehradun, Uttarakhand, India

February,20 - January,21

- Entering customer and account data from source documents within time limits.
- Compiling, verifying the accuracy, and sorting information to prepare source data for computer entry.
- Reviewing data for deficiencies or errors, correcting any incompatibilities, and checking output.

LANGUAGES

English: Proficient

Hindi: Proficient