

### Educational Details:

Degree	Board/University	Year	Subjects	Division
High School	U. P. Board	2004	Science and Mathematics	First
Intermediate	U. P. Board	2006	Physics, Chemistry and Mathematics	First
Graduation	University of Allahabad, (Central University), Prayagraj, India	2010	Physics, Mathematics, Chemistry	Second
Post-Graduation	University of Allahabad, (Central University), Prayagraj, India	2012	Applied Physics	First
Ph. D.	Indian Institute of Technology (ISM) Dhanbad, Jharkhand, India	2021	Title: "STUDIES ON THE TEMPERATURE DEPENDENT DIELECTRIC PROPERTIES OF HOMO AND HETEROVALENT TRANSITION METAL SUBSTITUTED SODIUM NIOBATE ELECTROCERAMICS"	Awarded

### Research Interest:

Synthesis of Nanoparticles, Ceramics, and Ceramic-Polymer Composites

- o Solid State Reaction, Solution Casting, and Ball Milling Synthesis
- o Structural, microstructure, thermal, mechanical, and chemical states Analysis
- o Dielectric, Ferroelectric, and Piezoelectric Analysis
- o Impedance Analysis, Magnetic Analysis

### Research Publications:

#### (a) Publication in SCI Journals (During Post-Ph.D.)

1. **Abhinav Yadav** -doping on the structure, high-temperature dielectric, and conductive properties of  $\text{NaNbO}_3$  *Materials Science and Engineering: B*, **297**, (2023), 116796.
2. S. Sahoo, **Abhinav Yadav** Systematic Investigations of structural transformation, dielectric and multiferroic properties of  $(\text{Gd}_{1-x}\text{Ba}_x)(\text{Fe}_{1-x}\text{Ti}_x)\text{O}_3$  ceramics by tuning composition" *Ceramics International* **49**, (2023), 918-932.
3. I. G. Sheptun, V. G. Smotrakov, **Abhinav Yadav**, K. A. Chebyshev, Yu. A. Kuprina, S. I. Shevtsova, A. V. Nagaenko, V. P. Glazkov, E. V. Dyuzheva-Maltseva, N. V. Ter-

**Abhinav Yadav**, S. P. Mantry, Mohd. Fahad, P. M. Sarun, Temperature dependent dielectric relaxation and conductivity of alkali niobate ceramics studied by impedance spectroscopy , *Physica B: Condensed Matter*, **537** (2018) 290-295.

**Abhinav Yadav**



Synthesis of various multifunctional ceramics and polymers using solid state reaction, Nano-Agetator bead milling, Doctor Blade, 3-D printing, Solution casting and ball milling methods.

Familiar with muffle furnace (programmed digital temperature controller) Eurotherm belongs to high temperature (1400 °C).

Familiar with operating the XRD, FE-SEM, FTIR, RAMAN, TGA, DSC, P-