

# **CURRICULUM VITAE**

## **Rajesh Bhardwaj**

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### ➤ **HIGHEST ACADEMIC QUALIFICATIONS**

- **M.Sc – Physics:** H.N.B. Garhwal (A Central University) University, Srinagar Uttarakhand.

### ➤ **AWARDS/HONOURS**

- **CSIR/UGC-JRF** in Physics, December 2012
- **National Eligibility Test (NET)** in Physics, June 2012
- **Joint Entrance Screening Test (JEST)** in Physics ( All India Ranking - 107), March 2012
- **“Best Oral Presentation award”** in 6<sup>Th</sup> National Symposium for Materials Research Scholars, MR-2014, at Indian Institute of Technology Bombay

### ➤ **RESEARCH INTERESTS**

- Sensors
- Photonics
- Piezoelectricity
- Optoelectronic Devices
- Natural Energy Harvesting
- EM Wave Absorbers/Materials
- Nano Material/Device & Structure Synthesis, Fabrication & Characterization

## ➤ PUBLICATIONS

- **“Synthesis of self-assembled large area films of complex hierarchical PZT clusters”**

Raghvendra Pratap Chaudhary, Sumit Saxena, Amit Kmar, **Rajesh Bharadwaj** and Shobha Shukla Published 21 January 2016 • © 2016 IOP Publishing Ltd Materials Research Express, Volume 3, Number 2

- **“Stabilization of Self Assembled 3D Photonic Crystals” Rajesh Bhardwaj, A.S. Rawat, Shobha Shukla**

Global Journal for Research Analysis, Volume-6, Issue-2, February - 2017 ISSN No 2277 - 8160

- **“Impact of Employee Retention Strategies on Employee Productivity”** Dr. Renu Bala & Rajesh Bhardwaj published by Cape Comorin Publisher, E-ISBN- 978-81-950632-5-3, 2021

## ● CONFERENCES/WORKSHOPS/SYMPOSIUM

- Coordinated a school entitled **“Introductory Astronomy School”** at EJM College Leh – Ladakh, Jammu & Kashmir.
- Presented a paper entitled **“Fabrication of Large Area 3D Self Assembled Photonic Crystals”** in an international conference on “Energy, Functional Materials and Nanotechnology” held at Department of chemistry, D.S.B campus Kumaun University, Nainital Uttarakhand.
- Presented a paper entitled **“3D Large Area Self Assembled Photonic Crystals for Sensing Applications”** in a national seminar on ‘Science and Technology: reaching the unreached’ by Indian Science Congress Association held at EJM College Leh, Jammu & Kashmir.
- Presented a paper entitled **“Stabilization of Surface and size Tunability of 3D Self Assembled Photonic Crystal”** in an International conference on “Advance Techniques & Devices in Mathematics & Physical Science” held at SRM University Modinagar, U.P.
- Presented a paper entitled **“3D Self assembled Photonic crystals for Variable Absorption of EM Waves in Visible & IR-Region”** in an International conference on “Change in Cryosphere its impact on Ecosystem Services and Rural Livelihood: Understanding local Adaptation in the Himalayan Region” held at Bhadarwah Campus, University of Jammu, Jammu & Kashmir.

- Presented a paper entitled “**Self Assembly of Large Area 3D Photonic Crystals size Tunability**” in a national conference on “Recent Engineering Trends in Energy, Environment & Ecology” held at Rajshree Institute of Management & Technology, Bareilly, U.P.
- Presented a paper entitled “**Applications and Future of Self Assembled of 3D Photonic Crystals made of Polymer**” in a national Seminar on “New Harizon in Theortical and Experimental Physics” held at Govt. P.G College Gopeshwar, Gopeshwar, Uttarakhand.
- Participated in “**One day workshop on Advanced Characterization Techniques**” during 6<sup>Th</sup> National Symposium for Materials Research Scholars, MR-2014, at Indian Institute of Technology Bombay, Maharashtra.
- Participated in “**Sustainable Mountain Development Summit V**” held at Leh-Ladakh, Jammu & Kashmir.
- Participated in National Conference on “**Recent Advances in Material Science (NCRAMS-13)**” held at H.N.B. Garhwal university, Srinagar (Garhwal), Uttarakhand.

➤ **EXPERIENCES AND SKILLS**

- UV-Vis Spectrometer
- Optical Microscopy
- Dynamic Light Scattering (DLS)
- X-Ray Diffraction (XRD)
- Scanning Electron Microscopy (SEM)
- Transmission Electron Microscopy (TEM)
- Laser Raman Spectroscopy (LRS)
- Atomic Force Microscopy (AFM)
- Photolumniscence Analysis (PL)

➤ **INSTRUMENT HANDLING**

- Spectro-fluorophotometer (RF-6000)
- UV- Vis Spectrophotometer (UV- 2600)
- Spin Coating Unit
- Electro-Spinning Unit

- Chameleon Femto Second Laser (ablation)
- Autoclave
- Ball Miller

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