



Prof. Dinesh C. Gupta
Professor & Head, School of Studies in Physics
Jiwaji University, Gwalior, India

Biography

Prof. Dinesh C. Gupta is an academic and researcher in condensed matter theory and computational materials science. He currently serves as the Head of the School of Studies in Physics at Jiwaji University, Gwalior. Recognized globally among the **Top 2% Most-Cited Scientists** by Stanford University and SCOPUS for five consecutive years (2020–2024), his career combines high-impact theoretical discovery with academic leadership and institutional development.

Research Focus

Prof. Gupta utilizes *ab initio* (first-principles) computational methods to model, analyze, and predict the electronic, magnetic, and thermal behaviors of novel materials from fundamental physical laws. His primary research thrusts focus on:

- **Green Energy & Thermoelectrics:** Developing advanced materials designed to capture and convert industrial and electronic waste heat directly into usable electricity.
- **Next-Generation Spintronics:** Engineering quantum solids, alloys, and compounds that manipulate electron spin alongside charge to power faster, low-power data storage and computing architectures.

Scholarly Metrics and Research Impact

- **Publications:** Over 420 peer-reviewed articles published in high-impact international journals.
- **Patents:** Published a patent on innovative thermoelectric materials and design.
- **Global Recognition:** Consistently ranked in Stanford/SCOPUS World's Top 2% Scientists (2020–2024).
- **International Expert Reviewer:** Project evaluator for international grant bodies, including the Swiss National Science Foundation and the Czech Science Foundation.
- **International subject expert** member for the selection/promotion committee for Professor in Physics at King Saud University, Riyadh, Kingdom of Saudi Arabia.

Fellowships and Academic Distinctions

- Recipient of prestigious national and international research fellowships and career awards recognizing excellence in computational physics and materials science.
- He is the recipient of the Junior Research Associateship of the Abdus Salam ICTP, Trieste (Italy).

Academic Mentorship and Supervision

Dedicated to cultivating scientific talent, Prof. Gupta has supervised and mentored advanced research scholars across multiple disciplines:

- **Ph.D. Supervision:** 31 doctorates awarded (ongoing supervision of active scholars).
- **M.Phil. Supervision:** 24 theses awarded.
- **Fellowships & Postdoctoral Mentoring:** Mentor to two DST WOS-A women scientist awardees.

Institutional Leadership & Major Grants

Prof. Gupta has led major institutional funding initiatives to enhance research infrastructure and departmental capabilities:

- **PM-USHA Scheme:** Spearheaded the institutional project securing a grant of **₹100 Crore** for university infrastructure enhancement.
- **Centre of Excellence (COE):** Secured a departmental grant of **₹5.15 Crore** for cutting-edge analytical and experimental instruments.
- **Funded Research Projects:** Principal Investigator on three major sponsored projects funded by DST and UGC (New Delhi), along with two university-funded research initiatives.

Research Profiles & Identifiers

- [Google Scholar](#) [ORCID](#) [Scopus](#) [Web of Science / Publons](#)
[ResearchGate](#) [Vidwan](#)