

Dr Rakesh Sharma

Assistant Professor

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RESEARCH INTERESTS

NMR Bio Physics, Quantum computation, Material Science

EDUCATION

PhD in Physics, 2022 – IISER Mohali.

M.Phil in Physics, 2013- HPU Shimla.

MSc in Physics, June 2011 – Department of Physics, HPU Shimla.

BSc in Physics, June 2009 – DAV Kangra, HPU Shimla .

Professional Qualifications

M.Sc., M.Phil., Ph.D., GATE, NET, SET.

APPOINTMENTS

Worked as Assistant Professor for more than 5 years in the Department of Higher Education, Government of Himachal Pradesh.

PUBLICATIONS

1. **Name of authors - Rakesh Sharma**, Navdeep Gogna, Harpreet Singh, Kavita Dorai.
Title of The Paper - Fast profiling of metabolite mixtures using chemometric analysis of a speeded-up 2D heteronuclear correlation NMR experiment. RSC Advances (2017)
2. **Name of authors-** Navdeep Gogna, **Rakesh Sharma**, Vanika Gupta, Kavita Dorai, N. G. Prasad.
Title of The Paper- Evolution of the metabolome in response to selection for increased immunity in populations of *Drosophila melanogaster*. PLOS ONE (2017)
3. **Name of authors-** Sumit Mishra, Ankit, **Rakesh Sharma**, Navdeep Gogna, Kavita Dorai.
Title of The Paper- NMR-based metabolomic profiling of the differential concentration of phytochemical compounds in pericarp, skin and seeds of *Momordica charantia* (bitter melon). Natural Product Research (2020)

4. **Name of authors-** Priyanka Vashist, **Rakesh Sharma**, Balbir Singh Patial, Nagesh Thakur

Title of The Paper- On I–V measurements and high field conduction of $(\text{Se}_{80}\text{Te}_{20})_{94-x}\text{Ge}_6\text{Bi}_x$ ($0 \leq x \leq 12$) chalcogenide alloys. Journal of Materials Science: Materials in Electronics (2022).

CONFERENCE AND WORKSHOPS PRESENTATIONS

National webinar on New Education Policy (NEP) Challenges, Suggestions and Implementation 24th March 2021. KDC Govt College Jaisinghpur

National Magnetic Resonance Society Symposium 2018 IISER Mohali, Mohali, February 16-19, 2018.

7th ASIA PACIFIC NMR SYMPOSIUM AND 23rd National Magnetic Resonance Society Symposium Indian Institute of Science Bangalore, INDIA, February 16-19, 2017.

22nd Conference of National Magnetic Resonance Society of India 2016 Department of Chemistry Indian Institute of Technology, Kharagpur, February 18-21 2016.

6 Days National Workshop on NMR/MRI at Babasaheb Bhimrao Ambedkar University , Lucknow June 21-27 2015.

Two Day workshop on Antenna materials JUIT Solan December 14-15, 2012

Visited Slovenian NMR centre for two months in Ljubljana Under Indo Slovenian DST Project in 2016