

CV FORMAT

1. **Name:** Rajendra Bahadur Singh

2. **Profession:** Assistant Professor

3. **Education:** Ph.D. In physics

4. **Nationality:** Indian

5. **Membership of Professional Associations:** Indian Science Congress

8. **Area of Research:** Material Science, Renewable Energy & High Energy Physics

9. Research Contribution:

The research contribution in terms of publications is meaningful. Major research contribution is in the area of analysis of biomedicine and its impact on human body; material characteristics ; Simulation; Ecology studies.

10. List of Publication:

Out of 40 publications

1. Fourier transform infrared spectra and normal mode analysis of 1-[(3-methylphenyl)...]ethane (Cenethaquin): a potent centrally acting anti-hypertensive agent 15-21, Spectrochimica Acta Part A
2. Experimental (FT- IR, UV-visible, NMR) spectroscopy and molecular structure----- density functional theory , IOSR Journal of Biotechnology and Bio Chemistry
3. Bio-accumulation of Heavy Metals (Zn,Cu,Fe,Cd,Ni and Cr) and wild plants near express highway (NH25) in unnao district, UP state (India,) 777-787,Journal of Biological and Chemical Research
4. Combined Experimental and Quantum Chemical Analysis ofacetonitril ;Organic & Biomolecular Chemistry
5. Ecological studies.....Unnao district of UP state, India 149-152 , Research in Environment and Life Sciences
6. Non-Covalent interactions and spectroscopic study on Chalcone derivative 1-(4-chlorophenyl)-3-(2-methylfuran-2-yl) prop-2-en-1-one, Journal of Molecular Structure.
7. Srishti Nagu, Jaydip Singh , Jyotsna Singh, R.B. Singh; Impact of cross-sectional

uncertainties on DUNE sensitivity due to nuclear; Nuclear Physics B 951 (2020) 114888

8. Jaydip Singh, Srishti Nagu, Jyotsna Singh, R.B. Singh; Quantifying multinucleon effect in the Ar-target using High Pressure gas TPC DUNE Near Detector; <https://arxiv.org/abs/1909.10329>
9. “Atmospheric muon charge ratio analysis at the INO-ICAL detector” Jaydip Singh and Jyotsna Singh Advances in High Energy Physics, 2019
10. Sabeeha Naaz, Anupam Yadav, Jyotsna Singh, R.B. Singh (Lucknow U.), Effect of final state interactions on neutrino energy reconstruction at DUNE, Nucl.Phys. B933 (2018) 40–52, [arXiv:1804.02191](https://arxiv.org/abs/1804.02191) [hep-ph]
11. Srishti Nagu, Jaydip Singh, Jyotsna Singh, Nuclear Effects and CP Sensitivity at DUNE, [arXiv:1906.02190](https://arxiv.org/abs/1906.02190) [hep-ph], Advances in High Energy Physics, Volume 2020 | Article ID 5472713 | 6 pages | <https://doi.org/10.1155/2020/5472713>

11. Popularization of Science

Have touched roughly half of the Uttar Pradesh’s rural area with popularization programs on Science to motivate young students.

12. Invited Lectures: 30

13. Session Chair in Conferences : 20

14. Papers Published in National International Conferences: 25

15. National Collaboration :01