



**Designation:** Assistant Professor Chemistry

**Address:** Government College Karsog, Distt. Mandi, H.P.

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**Qualification with specialization (if any):** BSc.honors Chemistry, M.Sc. Chemistry, NET-LS, NET-JRF, GATE, Ph.D. Chemistry (Pursuing)

**Teaching experience:** Joined as Assistant Professor (College Cadre) from 7<sup>th</sup> July 2023 to till date.

**Additional Charge (NCC/NSS/R&R/others):** Member Anti-Drug Addiction Cell, Member Bus Pass Committee, Member House Examination Committee, Member Career Counselling Cell, Member Campus Development ,Beautification and Cleanliness Committee, Member Hostel Committee Member HPU/SPU Youth Festivals Cultural Committee (Group I)

**Detail of research publications:** (Research experience/Symposium/ Research articles/ Book chapters/ Books published/research papers etc.)

1. Thakur, Ramesh C., Sharma, Akshay and Sharma, Renuka. "Chapter 5 Recent advances in the discovery of drug molecules: trends, scope, and relevance" In *Bioinformatics: Drug Discovery* edited by Anil K. Sharma and Varruchi Sharma, 83-102. Berlin, Boston: De Gruyter, 2025. <https://doi.org/10.1515/9783111568584-005>
2. **Sharma, Renuka** & Sharma, Akshay & Thakur, Ramesh. (2024). Effect of Deep Eutectic Solvent (DES) on physicochemical and electrochemical properties of triethylmethylammonium tetrafluoroborate in propylene carbonate and aqueous propylene carbonate solvent systems for energy storage applications: A comparative analysis. *Journal of Molecular Liquids*. 126494. 10.1016/j.molliq.2024.126494.
3. Nidhi, Thakur, R.C., Kumar, **Sharma, Renuka et al.** Effect of Pyrrolidinium Based Ionic Liquid on Thermo Physical and Electrochemical Properties of Binary Aqueous Solutions of Benzylamine and Benzamide at Different Equidistant Temperatures (288.15 K to 318.15 K). *Chemistry Africa* (2024). <https://doi.org/10.1007/s42250-024-01111-0>
4. Sharma, Akshay & **Sharma, Renuka** & Thakur, Ramesh & Nidhi, (2024). Investigating the physicochemical properties and interactions behavior of lithium perchlorate in ternary solutions of ethaline DES and bio-additives. *Biomass Conversion and Biorefinery*. 1-14. 10.1007/s13399-024-05795-9.
5. Sharma, Akshay & **Sharma, Renuka** & Thakur, Ramesh. (2024). Vitamins fortification and its consequences on food production and quality. 10.1016/B978-0-443-15528-4.00007-6.
6. Akshay Sharma, **Renuka Sharma**, Ramesh Chand Thakur, Chapter seven - Vitamins fortification and its consequences on food production and quality, Editor(s): Syed Amir Ashraf, Mohammed Kuddus, Microbial Vitamins and Carotenoids in Food Biotechnology, Academic Press, 2024, Pages 179-203, ISBN 9780443155284, <https://doi.org/10.1016/B978-0-443-15528-4.00007-6>.

7. Sharma, Akshay, **Renuka Sharma**, Ramesh C. Thakur, and Lakhveer Singh. "An overview of deep eutectic solvents: Alternative for organic electrolytes, aqueous systems & ionic liquids for electrochemical energy storage." *Journal of Energy Chemistry* (2023).
8. Rana, Sapna, Ramesh C. Thakur, Harpreet Kaur, Akshay Sharma, **Renuka Sharma**, Vikas Thakur, Harmanjit Singh, and Ishrat Fatma. "Investigating the Solvation Behaviour of Some Lithium Salts in Binary Aqueous Mixtures of 1-Ethyl-3-methylimidazolium Tetrafluoroborate ([EMIM][BF<sub>4</sub>]) at Equidistant Temperatures (T= 298.15, 303.15, 308.15, 313.15, 318.15) K." *Journal of Chemical & Engineering Data* 68, no. 6 (2023): 1291-1304.
9. Sharma, Akshay, Ramesh C. Thakur, **Renuka Sharma**. "Biomedical Applications of Ferrites" *Materials Horizons: From Nature to Nanomaterials, 2023, Part F258*, pp. 241–256
10. Thakur, Ramesh C., Akshay Sharma, **Renuka Sharma**, and Harpreet Kaur. "A comparative analysis of volumetric, viscometric and conductometric properties of Triethylmethylammonium Tetrafluoroborate (TEMABF<sub>4</sub>) and Tetraethylammonium Tetrafluoroborate (TEABF<sub>4</sub>) in pure propylene carbonate (PC) and binary aqueous propylene carbonate solvents." *Journal of Molecular Liquids* 374 (2023): 121244

#### **Conferences and Seminars Attended:**

1. Presented oral paper at International Conference on "Recent Advances on Green and Sustainable Developments (ICRAGSD-2023) at Akal University Campus."
2. Presented Oral paper at National Conference on "Novel Progressions in Science and Technology-2022" organized at St. Bede's College, Shimla. (December 2019)