

Physics

List of Publications

Dr. Sanjay

In year 2025

- [57] Structural and Optical Investigations of Lithium-modified Lead Bismuth Borate Glasses, D. Yadav, S. Chauhan, R. Bala, **S. Gaur**, *Journal of Solid State Communications*, **399**, 1, 115859 (2025) **IF-2.1** Elsevier Publisher, <https://doi.org/10.1016/j.ssc.2025.115859>.
- [56] The Role of Fe₂O₃ and MoO₃ content on FTIR Study of Lead Borate Glasses, **S. Gaur**, S. Devi, S. Kaushik, R. Bala, S. Chauhan, M. Yadav: *American Institute of Physics (AIP) Conf. Proc.* **3198**, 2025, 020054 (**Indexed in SCI and SCOUPS**).IF-0.189 <https://doi.org/10.1063/5.0248393>.

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- [55] Structural, Optical, and Dielectric Investigations of Sodium Modified Lead Bismuth Borate Glasses, D. Yadav, S. Chauhan, R. Bala, **S. Gaur**, *Journal of Optical Materials* **159**, 116573 (2024) Elsevier Publisher, **IF-3.8**. <https://doi.org/10.1016/j.optmat.2024.116573>
- [54] Influence of Bi₂O₃ on structural and optical characteristics of PbO.B₂O₃.Bi₂O₃.SiO₂ Glasses, S. Chauhan, R. Bala, D. Yadav, **S. Gaur**, *Journal of Non-Crystalline Solids*, 649, 123330 (2024) Elsevier Publisher, **IF-3.2**. <https://doi.org/10.1016/j.noncrysol.2024.123330>
- [53] Conductivity, Dielectric, and Modulus Formalism in Li₂O Modified PbO.Bi₂O₃.B₂O₃ Glasses, Sumit Chauhan, Rajni Bala, D. Yadav, R. Bala, S. Chauhan, **S. Gaur** & K. Poria, *Journal of Material Science, Materials in Electronics*, **35**, 1907 (2024) Springer Publisher, <https://link.springer.com/article/10.1007/s10854-024-13647-5> **IF- 2.8**.
- [52] Linear and nonlinear optical characteristics of bismuth-modified lead-silicate glasses, R. Bala, A. Agarwal, S. Sanghi, S. Rani, **S. Gaur**, *Journal of Silicon*, **16**, 6143-6154 (2024) Springer Publisher, <https://link.springer.com/article/10.1007/s12633-024-03139-w> **IF-2.8**.

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- [51] The conduction mechanism and dielectric behavior of cadmium bismuth silicate glasses, R. Bala, A. Agarwal, S. Sanghi, **S. Gaur**, *Journal of Physics: Conference Series*, **2603**, 012040 (2023), <https://iopscience.iop.org/article/10.1088/1742-6596/2603/1/012040>
- [50] Electrical conduction and dielectric relaxation in bismuth modified lithium lead borate Glasses, Sumit Chauhan, Rajni Bala, Divya Yadav, Deepesh Sharma, **Sanjay Gaur**, Saroj Rani, *Journal of electronic Materials* **52**, 7952–7961 (2023) (**Springer publication**) **IF-2.1**

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- [49] A study of virescent emission from Er³⁺ activated ternary gadolinium-based nanophosphor system applicable for current pc-WLEDs and solid-state lightings, Suman Devia, Shalini Kaushik, Hina Dalal, Mukesh Kumar, **Sanjay Gaur**, Sudesh Kumar, **Indian Journal of Physics** **98** (2023) 865–876 <https://doi.org/10.1007/s12648-023-02854-1> (Springer Publication). IF-2.0
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- [47] Achieving bright green emission in Tb³⁺ doped ternary yttrate-based nanocrystalline powder for solid-state illumination applications, Suman Devi, Shalini Kaushik, Mukesh Kumar, Hina Dalal, **Sanjay Gaur**, Sudesh Kumar, **Journal of Materials Science and Engineering B**, **289**, 116273 (2023). <https://doi.org/10.1016/j.mseb.2023.116273> (Elsevier publications).IF-3.6

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- [45] Effect of Bi₂O₃ on structural and optical properties of Li₂O·PbO·Bi₂O₃·B₂O₃ glasses, Sumit Chauhan; Rajni Bala; **Sanjay Gaur**; Saroj Rani, **Journal of Materials Science: Materials in Electronics**, **33**, 22835–22850 (2022) <https://doi.org/10.1007/s10854-022-09050-7>, (Springer publication). IF-2.8
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Dr. Sukhender

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Dr. Jyoti Kumari

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- [7] First-principles study for physical properties and stability of Li-based chalcopyrite semiconductors: Reliable for green energy sources *Journal of Physics and Chemistry of Solid State*.