List of Publications

In International Refereed Journals

1) Gurdeep Kaur, Lavleen Saini, Sandeep Kaur, Shivani Singla, **Neetu Verma** (2026) "The Effect of Gold Nanoparticles on the Structural, Optical, and Emission Properties of Dy3+-Doped Bismuth Borosilicate Glasses and Glass Ceramics" *physica status solidi (b), 2026; 263:e202500636,* https://onlinelibrary.wiley.com/doi/abs/10.1002/pssb.202500636

2) Deepakshi, Jatinder Kaur, Nancy Mahendru, PrakashKanjariya, Aman Shankhyan, Kartikaya Vashishth, Gopi Sharma, Shivani Singla, Enhanced Thermal Stability and Nonlinear Optical Response in Gold Nanoparticles Dispersed NaO2-B2O3-SiO2 Glass, Journal of Materials Science: Materials in Electronics, 2025.

3) Anchal Pathania, Neetu Verma, Rohit Mehra, P Nandi, Gopi Sharma, Sandeep Kaur, Richa Mishra, B Sanyal, Environmentally safe high density lanthanum doped glasses for radiation shielding windows, Journal of Non-Crystalline Solids, Volume 666, 2025, 123649. https://doi.org/10.1016/j.jnoncrysol.2025.123649

4) Haramanpreet Kaur, Ruturaj Puranik, Vibhavari Parkar, Snehal Haldankar, Fathimath Faseela, Shriganesh Prabhu, Sandeep Kaur, Neetu Verma, Gopi Sharma, Terahertz-time domain spectroscopy and optical characterization of germanate glass systems for photonic applications, Journal of Non-Crystalline Solids, Volume 650, 2025, 123369. https://doi.org/10.1016/j.jnoncrysol.2024.123369

5) Shivani Singla, Khushi Rajput, Prakash Kanjariya, Karthikeyan Ravi, Gagan Anand, Naveen Kumar, Naveen Bansal, and Gopi Sharma, "Structural, thermal, and optical properties of gold nanoparticle-doped bismuth borate glasses: effect of concentration", Journal of Materials Science: Material in Electronics, vol. 35, pp. 2142, 2024. https://doi.org/10.1007/s10854-024-13899-1

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7) Abubakar, Gopi Sharma, Asha Rajiv, Anupam Yadav, Jatinder Kaur, Ayush Gandhi, Shivani Singla, "Enhanced broadband-visible photoluminescence properties of gold nanoparticle-dispersed bismuth borosilicate glasses", Journal of Materials Science: Material in Electronics, vol. 35, pp. 1423, 2024.https://doi.org/10.1007/s10854-024-13201-3

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SiO_2 in Tailoring Stability and Nonlinear Optical Behaviour of Gold Nanoparticles in Glass", Physica Scripta, Vol. 99, 055504,2024.https://doi.org/10.1088/1402-4896/ad3493

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10) Shivani Singla, Abhishek, Naveen Bansal, Neetu Chopra, **Gopi Sharma**, "Analysis of Gold nanoparticles dispersed Bismuth Borate glass: Effect of Size and Concentration", Journal of Materials Science: Material in Electronics, vol. 34, pp. 526, 2023. https://doi.org/10.1007/s10854-023-09964-w

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1) H. Kaur et al., "Terahertz Time-Domain Spectroscopic Analysis of Modified Glass Network: A Comparative Study," 2025 50th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Helsinki, Finland, 2025, pp. 1-1, doi: 10.1109/IRMMW- THz61557.2025.11319644.

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Papers presented in International and National Conferences

- Awarded with '**Best Paper Award'**& Oral presentation on **"Influence of Rare Earth Elements on the radiation shielding properties of lead-free glass materials"** in International Conference on Science, Technology and applications of Rare Earths (ICSTAR-2025), held from 21-23 April, 2025 at Tirupati.

- Paper Presentation on **"Spectroscopic, structural and thermal studies of rare earth doped sodium borotellurite glasses"** September 29-30,2022 at Gandhinagar, Gujrat.
- Shivani Singla, Venu Gopal Achanta, S. Sri Ganesh Parbhu, Om Prakash Pandey, Gopi Sharma, 2019 "Gold nanoparticles doped borate glasses for optical devises" **National symposium on nanostructured materials: structure, properties and applications (NSNM-2019),** 22-23 February at Jalandhar.
- Shivani Singla, Venu Gopal Achanta, Om Prakash Pandey, Neetu Chopra, Gopi Sharma, 2018 "Z-scan measurement of nonlinear absorption coefficient of Gold nanoparticles doped Bismuth Borosilicate glasses for sensing devices" **International symposium on functional materials: energy and biomedical applications (ISFM-2018),** 13-15 April at Chandigarh.
- Shivani Singla, Venu Gopal Achanta, Om Prakash Pandey, Neetu Chopra, Gopi Sharma, (2018) "Structural and optical properties of sodium borosilicate glasses containing gold nanoparticles", **National Conference on Emerging Scenario in Basic and Applied Sciences for Sustainable Development** 2018, 5 April at DAV college Bathinda.
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