

# LIST OF PUBLICATIONS

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Following are the list of publications from the thesis work:

1. **Bansal, G.,** Gautam, R. K., Misra, J. P. and Mishra A (2023). Physiomechanical, Flowability, and Antibacterial Characterization of Silver-Doped Eggshell-Derived Hydroxyapatite for Biomedical Applications. *Journal of Material Engineering and Performance*. 1-15. <https://doi.org/10.1007/s11665-023-08696> (**SCIE Indexed, Impact Factor: 2.3**).
2. **Bansal, G.,** Gautam, R. K., Misra, J. P. and Mishra, A. (2024) Tribological behavior of silver-doped eggshell-derived hydroxyapatite reinforcement in PMMA-based composite. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*. ;2(1). <https://doi:10.1177/14644207241240623> (**SCIE Indexed, Impact Factor: 2.5**).
3. **Bansal, G.,** Gautam, R. K., Misra, J. P. and Mishra, A. (2024). Synthesis and Characterization of Poly (Methyl Methacrylate)/ Silver-Doped Hydroxyapatite Dip Coating on Ti6Al4V. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. Volume 689,133662. Doi: <https://doi.org/10.1016/j.colsurfa.2024.133662>. (**SCI Indexed, Impact Factor: 5.2**).

## Book Chapters:

1. **Bansal, G.,** Gautam, R. K., Misra, J. P. and Mishra, A. (2023) “Coating Methods for Hydroxyapatite: A Bioceramic Material” in *Coating Materials- Computational Aspects, Applications and Challenges*. Springer Nature DOI: [https://doi.org/10.1007/978-981-99-3549-9\\_13](https://doi.org/10.1007/978-981-99-3549-9_13). July 13, 2023
2. **Bansal, G.,** Gautam, R. K., Misra, J. P., Kishore, C. and Mishra, A. (2024) “Evaluation of Mechanical and Thermal Properties of Thermosetting Polymer Composites” in *Study of Dynamic Mechanical And Creep-recovery Behavior of Polymer Composites: Overview, Effect of Cross-linking And Mathematical Modeling*. Paperback ISBN: 9780443190094. eBook ISBN: 9780443190100 (Elsevier).

## Conference presentation and publications:

1. **Bansal, G.,** Gautam, R. K., Misra, J. P. and Mishra, A. (2023) “Synthesis and Characterization of Hydroxyapatite for Biomedical Applications: A Review”. *International Conference on Recent Trends in Material Sciences with Computational Analysis (ICRTMSCA 2022)*. July 15-16, 2022 at GEU, Dehradun, Uttarakhand (India). **Oral Presentation**
2. **Bansal, G.,** Gautam, R. K., Misra, J. P. and Mishra, A. (2023) “Synthesis, Powder Flow Analysis and Morphological Characterization of Eggshell-Derived Hydroxyapatite”. *2<sup>nd</sup> International Conference on Advanced Trends in Mechanical Engineering & Automation Science (ATMA- 2023)*. March 24-26, 2023, at Dayananda Sagar University, Bengaluru (India). **(Scopus Indexed)**
3. **Bansal, G.,** Gautam, R. K., Misra, J. P. and Kishore, C. (2023). “Wettability and Physiothermal Analysis of Eggshell-Derived Silver-Doped Hydroxyapatite” *2<sup>nd</sup> International Conference on Aspects of Materials and Mechanical Engineering (ICMME-2023)*. October 13-24, 2023 at GLA University, Mathura, U.P. India. (Scopus Indexed) – **BEST PAPER AWARD.**
4. **Bansal, G.,** Gautam, R. K., Misra, J. P. and Mishra, A. (2023). Characterization of Poly (methyl methacrylate)/ Silver-Doped Hydroxyapatite Dip Coating on Ti6Al4V (AIMTDR23\_0579). *All India Manufacturing Technology, Design, and Research Conference (AIMTDR-23)*. December 8-10, 2023. IIT (BHU). **Springer proceedings.**

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