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List of Publications

1. **S. Awasthi**, A. Mohan, and K. K. Singh, “Template-free self-assembly of mesoporous ZnO nanocluster/polymethyl methacrylate based anisotropic nanocomposite thin films with enhanced interfacial interactions and tuneable optical properties,” *J. Phys. D-APPLIED Phys.*, vol. 56, no. 11, 2023, doi: 10.1088/1361-6463/acbb16.
2. **S. Awasthi**, S. Pramanik, K. K. Singh, A. Mohan, and B. N. Pal, “Highly Flexible Non-Volatile Resistive Memory Devices Based on ZnO Nanoparticle/Graphene Heterostructures Embedded in Poly(methyl methacrylate),” *ACS Appl. NANO Mater.*, vol. 7, no. 6, pp. 6392–6400, 2024, doi: 10.1021/acsanm.4c00131
3. Bhimraj Singh, **Shivam Awasthi**, Anita Mohan, “Synergistic effects of melamine functionalized graphene oxide and imidazolium ionic liquid on the tribological performance and thermal stability of polyalphaolefin based hybrid nanolubricants,” *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, vol 688, 2024 doi: 10.1016/j.colsurfa.2024.133611

Conference/Symposium attended

1. Delivered Poster Presentation at **International Conference on Advanced Materials for Better Tomorrow (AMBT-2021)** 13-17 July in Virtual Mode
2. Delivered Poster Presentation at **International Conference On Emerging Materials for Sustainable Development (EMSD-2022)** 9-11 Oct at CSIR-CSIO Chandigarh
3. Delivered Oral Presentation at **International Conference on Emerging Materials for Technological Applications (ICEMTA-2022)** 23-25 Nov at VIIT, Vishakhapatnam
4. Delivered Poster Presentation at **66th DAE Solid State Physics Symposium (DAE-SSPS 2022)** 18-22 Dec at BITS Mesra, Ranchi
5. Best Oral Presentation Award at **International Conclave on Materials, Energy and Climate (ICMEC 2022)** 12-14 Dec in New Delhi
6. Attended **Advanced Composite and Functional Materials Congress (2023)** 27-30 Apr in Orlando, USA (Attended Online)
7. Poster Silver Award and Graduate Student Award at **Advanced Materials Research Grand Meeting (MRM 2023/IUMRS-ICA 2023)** 11-16 Dec in Kyoto, Japan