

### List of Publications and Patent

1. **Urvashi Kesarwani**, Bikramjit Basu, and Ashutosh Kumar Dubey, “1- and 2-dimensional (1 D/2 D) hydroxyapatite nanocrystals: A deep insight into synthesis strategies and multidimensional applications”, *Applied Materials Today*, 36 (2024) 102062.
2. **Urvashi Kesarwani** and Ashutosh Kumar Dubey, “Antibacterial efficacy of bone mimicking-hydroxyapatite nanoplates with varying morphology”, *Inorganic Chemistry Communications*, 174 (2025) 113918.
3. **Urvashi Kesarwani** and Ashutosh Kumar Dubey, “Cytocompatibility and osteogenic response of 1- and 2-dimensional (D) nanostructured hydroxyapatite: Influence of surface chemistry, ion release and hydrophilicity”, *Inorganic Chemistry Communications*, 173 (2025) 113824.
4. Ashutosh Kumar Dubey and **Urvashi Kesarwani**, “A Method of Preparation of 2D Bioceramic Nanoplates”, Patent Application No.: 202311068646, 4-12-2024 (Indian Patent).
5. **Urvashi Kesarwani**, Subham Sekhar Mandal, Pralay Maiti, and Ashutosh Kumar Dubey, “Natural bone-mimicking hydroxyapatite nanoplates as a novel antibiotic drug vehicle: A comparative study with nanorods”, *Journal of Drug Delivery Science and Technology* 114 (2025) 107474.
6. **Urvashi Kesarwani**, Ashutosh Kumar Dubey, Asish Kumar Panda, B Basu, Jonny, and J Blaker, “Bioelectronic medicine”, *Current Science*, 122 (2022) 373.
7. **Urvashi Kesarwani** and Ashutosh Kumar Dubey. "Cytocompatibility, Osteogenic activity, hemocompatibility of different-sized hydroxyapatite nanorods" (Under preparation).

8. Kuntal Kumar Das, **Urvashi Kesarwani**, Ravi Prakash, Pralay Maiti, Om Shankar, and Ashutosh Kumar Dubey, “Piezoelectric catalyst  $\text{BaTiO}_3$  and  $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$  induced cellular and antibacterial response in poly (vinylidene fluoride) for self-powered implants for orthopedic applications”, *Catalysis Today* 452 (2025) 115255.