

List of Publications

1. **Mayank Kumar Yadav**, Vaibhav Pandey, Kalyani Mohanta, Vinay Kumar Singh, A Low-cost approach to develop Silica doped Tricalcium Phosphate (TCP) scaffold by valorizing animal bone waste and rice husk for tissue engineering applications, Ceramic International, <https://doi.org/10.1016/j.ceramint.2022.05.207>.
2. **Mayank Kumar Yadav**, Vaibhav Pandey, Jyoti, Ajay Kumar, Kalyani Mohanta, Vinay Kumar Singh, “Mechanical and biological behaviour of porous Ti-SiO₂ scaffold for tissue engineering application”, Ceramic International, 47 (2021) 22191–22200, <https://doi.org/10.1016/j.ceramint.2021.04.242>.

Patents

1. A novel porous scaffold for orthopedic application and a method of preparation thereof [202011001700 (TEMP/E- 1/1816/2020- del) (Indian Patent)] (Current Status- Published).
2. A highly porous lightweight ceramic foam and a process of preparation thereof [201911038240 (Temp/E-1/40529/2019- del) (Indian Patent)] (Current Status- Published).

Co-Authored Publications

1. Vaibhav Pandey, **Mayank Kumar Yadav**, Ashutosh Gupta, Kalyani Mohanta, Vinay Kumar Singh, Saroja Kanta Panda, Synthesis, Morphological and Thermomechanical Characterization of Light Weight Silica Foam via Reaction Generated Thermo-Foaming Process, Journal of the European Ceramic Society (Revision Submitted)
2. Ashutosh Gupta, Vaibhav Pandey, **Mayank Kumar Yadav**, Kalyani Mohanta, Manas Ranjan Manjhi, A comparative study on physio-mechanical properties of silica compacts

fabricated using rice husk ash derived amorphous and crystalline silica, Ceramic International (Revision Submitted)

3. Jyoti, Vaibhav Pandey, **Mayank Kumar** Yadav, Kalyani Mohanta, Vinay Kumar Singh, “Green properties of dry pressed alumina compact prepared using Aloe Vera gel and sucrose as a binder”, Transaction of Indian Ceramic Society, 81(1) (2022) 7-14, <http://dx.doi.org/10.1080/0371750X.2022.2032359>.
4. Vaibhav Pandey, Kalyani Mohanta, Ajay Kumar, **Mayank Kumar** Yadav, Ashutosh Gupta, “Synthesis of graphene oxide and green properties of dry pressed alumina compacts with the small addition of graphene oxide/graphite”, Journal of the Australian Ceramic Society, 56, 1367-1375 (2020), <https://doi.org/10.1007/s41779-020-00487-9>.