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LIST OF PUBLICATIONS

Publications

1. **Satyendra Kumar Singh**, Debajyoti Mahapatra, Priya Singh, A. K. Dubey, Ram Pyare, P. K. Roy, “Influence of bioactive glass addition on the machinability, mechanical and biological response of Mg-PSZ-based biocomposites” *Ceramics International* 50 (2024) 18238-18257.
2. **Satyendra Kumar Singh**, Jitendra Kumar, Priya Singh, S. K. Rajput, A. K. Dubey, Ram Pyare, P. K. Roy, “Impact of 13-93 bio-glass inclusion on the machinability, in-vitro degradation and biological behavior of Y-TZP-based bioceramic composite” *Ceramics International* 50 (2024) 1087–1106.
3. **Satyendra Kumar Singh**, Debajyoti Mahapatra, Priya Singh, A. K. Dubey, Ram Pyare, P. K. Roy, “Evaluation of the machinability and enhancement of biological response of ZTA-based 13-93 bio-glass composite materials” *Materials Chemistry and Physics (Under Review)*.
4. **Satyendra Kumar Singh**, Rupesh Kumar, R. K. Gautam, Ram Pyare, P. K. Roy, “Effect of bioactive glass on the tribological and antibacterial response of zirconia-based biocomposites” *(To be communicated)*.
5. Akher Ali, Bhisam N. Singh, Sushma Yadav, Md Irshad, **Satyendra Kumar Singh**, Sharda P. Mallick, Ram Pyare “CuO assisted borate 1393B3 glass scaffold with enhanced mechanical performance and cytocompatibility: An In vitro study” *Journal of the Mechanical Behavior of Biomedical Materials*, 2020.
6. Debajyoti Mahapatra, Subrata Panda, **Satyendra Kumar Singh**, Preetam Singh, Anil Kumar, Manas Ranjan Majhi “Optical, Mechanical, and Physicochemical Properties of Na₂O-P₂O₅-SiO₂ Based Tint Glass for Building Construction Applications” *Silicon*, 2023.
7. Ashutosh Gupta, Vaibhav Pandey, **Satyendra Kumar Singh**, Manas Ranjan Majhi, “Microstructural characterization and hydrothermal aging resistance of RHA derived amorphous and crystalline silica doped Alumina toughened Zirconia biocomposite,” *Materials Chemistry and Physics (Communicated)*.

8. Debajyoti Mahapatra, Subrata Panda, **Satyendra Kumar Singh**, Anil Kumar, Preetam Singh, “Investigation of structural, optical and mechanical properties of PbO-based pigmented glass for structural and optoelectronic applications,” *Applied glass technology (Communicated)*.
9. Akanksha Singh, Pooja Goswami, **Satyendra Kumar Singh**, Biplob Koch, Preetam Singh, Ram Pyare, “Impact of substituting ZrO₂ in 13-93B3 borate glass on its mechanical and biological characteristics” *Ceramics International (Under Review)*.

ATTENDED INTERNATIONAL CONFERENCES

1. **Satyendra Kumar Singh**, Debajyoti Mahapatra, Ram Pyare, P. K. Roy, “*Impact of metal oxides incorporation on the physico-mechanical and biological properties of 13-93B3 borate bioactive glasses*” at 34th Annual General Meeting of Materials Research Society of India (MRSI) and 5th Indian Materials Conclave, from 12-15th December 2023, at IIT(BHU), Varanasi, India. ([Poster Presentation](#))
2. **Satyendra Kumar Singh**, Dhiraj Kumar, Ram Pyare, P. K. Roy, “*Synthesis and evaluation of mechanical, in vitro bioactivity and degradation characteristics of Fe₂O₃ containing 13-93B3 bioactive glasses*” 1st International Conference on Mechanical Design and Manufacturing (ICMDM 2023), 27-28th April 2023, Under the aegis of IIST Mech Centenary Conferences & Symposia (CCS) 2023, at Indian Institute of Engineering Science and Technology, Shibpur, India. ([Oral Presentation](#))
3. **Satyendra Kumar Singh**, Dhiraj Kumar, P. K. Roy, Ram Pyare, “*Studies on the preparation and characterization of (Fe₂O₃+MnO₂) substituted 13-93B3 Borate Bioactive Glasses*” International Conference on “Global Trends in Traditional to Space Ceramics (GT-TSC’22) during 8-9th December 2022 at the Department of Ceramic Engineering, IIT (BHU), India. ([Poster Presentation](#))
4. **Satyendra Kumar Singh**, P. K. Roy, Ram Pyare, “*In-Vitro Bioactivity and Physico-Mechanical properties of MnO₂ substituted 13-93B3 Borate Bioactive Glasses*” International conference on Advances in Glass and Glass-Ceramics (ICAGGC 2022) during 23-25th August 2022 at CGCRI, Kolkata, India. ([Oral Presentation](#))
5. **Satyendra Kumar Singh**, P. K. Roy, Ram Pyare “*Synthesis, characterization, mechanical and machinability behavior of Mg-PSZ based 13-93 bioactive glass composite*” International virtual conference on advances in ceramic & cement technologies: materials & manufacturing during 13th -14th of December 2021 at PDA College of Engineering in Kalaburagi, Karnataka, INDIA. ([Oral Presentation](#))

There is no real ending. It's just the place where you stop the story.

—— Frank Herbert