

1. Strengthening of transparent glass-ceramics
2. Cold sintering of bioactive glasses
3. New glassceramic and ceramic materials in $\text{Al}_2\text{O}_3\text{-RE}_2\text{O}_3\text{-ZrO}_2$ system with interesting mechanical properties
4. Thermal barrier coating based on fluorite structure
5. Synthesis and developing of high entropy oxide ceramic for thermal barrier application
6. Upcycled lightweight materials from glass industry wastes
7. Creep behavior of fine-grained $\text{Al}_2\text{O}_3/\text{Y}_3\text{Al}_5\text{O}_{12}/\text{ZrO}_2$ composites
8. Corrosion of AZS refractory materials during production of Ba crystalline glass and design of methodology for their evaluation
9. Additive manufacturing of optically transparent glass structures for next-gen sensing, optical and photonic applications
10. Near zero-thermal-quenching phosphors for NUV converted w-LEDs
11. Magnetic core-shell structures with photocatalytic activity in UV and visible spectral range
12. Nano-structured luminescent material: Synthesis and analysis of ratiometric thermometry for biomedical application
13. Effect of N_2 incorporation in transparent conductive Oxide (TCO) films on glass substrates
14. Development, characterization, and optimisation of composite coatings for biomedical applications
15. Hierarchical structure scaffolds from bioactive glass as biomimetic bone implants
16. Antimicrobial effect of bioactive glass composites enriched with medicinal honey and propolis
17. Functionalized silica/glass materials doped with silver nanoparticles for the production of advanced antibacterial scaffolds for bone and dental tissue engineering applications