

1. High Entropy Oxide Ceramics by Pressure-Assisted Sintering of Multi-Component Rare-Earth Oxide Based Glasses
2. Strengthening of transparent glass-ceramics
3. Gamma radiation effects on the structure and properties of glass fiber insulations used in nuclear plants
4. Corrosion and weathering of tableware glass
5. Structure and properties of bioactive glasses doped with ions with potential therapeutic and antibacterial effects
6. Study of surface morphology and characterization of corrosive products of industrially produced glasses
7. Novel binary semiconductor-based materials for Sustainable and clean energy: from synthesis to H₂ generation
8. Interlayer adhesion in functional multilayer coatings on glass for energy saving applications
9. Identification and determination of cations in apatite phases formed under the conditions of *in vitro* bioactivity tests
10. Development of corrosion resistant polymer derived ceramic coatings on stainless steel substrates
11. Development of multifunctional nanodevices based on silica and magnetic nanoparticles for theranostic applications
12. Advanced manufacturing of 3D scaffolds using solid, hollow and mesoporous bioactive glass microspheres
13. Synthesis and developing of high entropy oxide ceramic for thermal barrier application
14. Surface modification of NiTi alloy by coating silicon-hydroxyapatite composite layers intended for biomedical applications
15. Thermal barrier coating based on fluorite structure
16. Development of water purifying membranes using waste glass and advanced additive manufacturing technologies
17. Development of advanced multi material structures by AMTs for a sustainable future in the tissue engineering application
18. Near zero-thermal-quenching phosphors for NUV converted w-LEDs

19. Spectrofluorochemical study of luminescence switches immobilised on inorganic substrates and nanoparticles