- 1. Cold sintering of bioactive glasses
- 2. Oxynitride glass ceramics: crystallization kinetics, mechanical and optical properties
- 3. Preparation and characterization of luminescent glass-ceramic materials prepared by sintering in a viscous flow
- 4. Additive manufacturing of phosphor-in glass structures for enhanced light-emitting applications
- 5. Grain growth in multi-material ceramics: effects on mechanical and optical properties
- Method development for evaluation of bioactivity of materials with laser ablation ICP-MS
- 7. Transparent ceramics with multi-wavelength excitation and emission properties
- 8. Near-zero and negative thermal-quenching phosphors for NUV converted w-LEDs
- 9. Luminescent guest materials in Metal-organic Frameworks for optical applications
- 10. Photocatalytic water splitting using photocatalysts prepared by 3D printing
- 11. Functionalized melt-quenched metal-organic framework (MOF) glasses for optoelectroactive membrane applications
- 12. Development of a visible light responsive photocatalysts for green hydrogen production
- 13. 3D printing of inorganic-biopolymer composites for bone regeneration
- 14. Metal-organic frameworks (MOFs) as carriers of drugs and other active agents for biomedical applications
- 15. Therapeutic Ion-Doped Nanoparticle Infused Bioactive Glass Scaffolds with Tunable Textural Properties for Enhanced Bone Regeneration
- 16. Hybrid magnetic biopolymer beads for sustained drug delivery in theranostic applications
- 17. Development of novel glass melting technology using advanced laser technology
- 18. Advanced 3D structures based on glass, ceramics, and glass-ceramics developed by multi-material additive manufacturing printing process
- 19. Recycling and Upcycling of Waste Glasses with Lightweight Fillers for Sustainable 3Dprinted Structural and Architectural Applications
- 20. Exploring the potential of Bauxite residue as a catalyst for hydrogen production
- 21. New and Modern Thermal barrier coatings based on high entropy ceramic oxides
- 22. Effects of mechanical milling and spray drying on flowability of rare earth oxide powders for thermal spray
- 23. Enhancing mechanical and chemical durability of the Silicon Oxide (SiOx) Coatings using Hollow cathode plasma enhanced chemical vapor deposition (HC-PECVD
- 24. Multilayers prepared by PECVD and PVD for applications as bandpass filters and antireflective coatings