

## Special Issue

# Advances in the Fabrication and Characterization of Glass-Based Materials

### Message from the Guest Editors

Glasses are used in a variety of applications throughout all industry fields, ranging from construction and automotive materials to medicine and aeronautics. The range of applications of glasses (and their relatives, glass-ceramics) is defined by their properties, e.g., glass transition temperature, thermal expansion coefficient (CTE), mechanical strength, density, chemical resistance, thermal and electrical conductivity, bioactivity and refractive index. Therefore, this Special Issue is focused on presenting the fundamental correlations between the composition, structure and properties of glasses. Papers in the field of advanced fabrication and characterization will be considered. Works clarifying the correlation between the structure and the physico-chemical, mechanical and biological properties of glasses are of great interest. Likewise, theoretical works based on calculating the material's structure will be also taken into consideration. It is our pleasure to invite you to submit a manuscript for this Special Issue. Full research papers, communications and reviews are very much welcome.

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### Guest Editors

Dr. Hugo R. Fernandes

Dr. George E. Stan

Prof. Dr. José M.F. Ferreira

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### Deadline for manuscript submissions

closed (10 September 2022)



## Materials

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## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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### Editor-in-Chief

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