## Special Issue

# Glass, Glass-Ceramics, and Ceramics for Nuclear Waste Immobilization and Other Environmental Applications

## Message from the Guest Editors

The world faces many environmental challenges, Glass. glass-ceramics, and ceramics are critical materials in modern technologies. For the past few decades, these materials have been under testing for many important environmental applications. Even though glass, glassceramics, and ceramics are being investigated for use in different environmental applications, there are many issues that are not yet solved. For example, glass and glass-ceramics for nuclear waste immobilization, although borosilicate glasses show the favorable characteristics of high waste loading and long-term durability, the nuclear waste immobilization issue is not yet fully resolved due to a lack of understanding of microstructural alteration and phase separation issues, and the need to improve waste loading capacity further. The current Special Issue focuses on glass, glassceramics, and ceramics, the study of CO2 capture and storage in zeolite, MOFs, and cementitious materials is strongly encouraged. The catalytic reduction of CO2 and solid-state battery development, where glassy or ceramic material electrodes/electrolytes are used for the study, will also be considered for the current Issue.

### **Guest Editors**

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### Deadline for manuscript submissions

closed (31 March 2022)



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### Editor-in-Chief

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