# **Special Issue**

# Luminescent Glass-Ceramics: Fabrication, Characterization, Application

## Message from the Guest Editors

Glass-ceramics are biphasic materials composed of a glassy matrix embedded with nanocrystals. When these nanocrystals are doped with luminescent elements, such as transition metal ions or rare-earth ions, they give rise to photonic glass-ceramics. The uniqueness of these activated photonic glass-ceramics, compared to conventional optical glasses and crystals, lies in their ability to merge the optical characteristics of glass with the spectroscopic features of crystalline phases. This synergy offers a compelling advantage over traditional glasses, single crystals, and sintered transparent ceramics in photonic technologies. The purpose of this Special Issue is to showcase established findings, cutting-edge discoveries, emerging perspectives, and practical applications of glass-ceramics in the fields of optics and photonics. We warmly welcome contributions from dedicated professionals across academia, research institutions, industry, and start-ups who are engaged in pushing the boundaries of photonic glassceramics.

## **Guest Editors**

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## Deadline for manuscript submissions

30 June 2026



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## Message from the Editor-in-Chief

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## **Editor-in-Chief**

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