# Special Issue

# **Magneto-Optical Ceramics**

### Message from the Guest Editor

This Special Issue of *Magnetochemistry* aims to publish a collection of research contributions illustrating the recent achievements in all aspects of the fabrication and investigation of highly transparent magneto-optical transparent ceramics used in high power Faraday isolators.

The development of ceramic technology has led to significant progress in the fabrication and improvement of the characteristics of magneto-optical polycrystalline materials through a base component of Faraday isolators (Fls) and Faraday rotators (FRs), which are widely used in advanced optical communication systems and high-power lasers for polarization control, optical isolation, and depolarization compensation. In this regard, many works have appeared that describe the preparation and properties of various classes of paramagnetic optical materials (such as garnets, sesquioxides, pyrochlores, etc.) owning superior properties compared to commercially available TGG single crystals.

### **Guest Editor**

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## Deadline for manuscript submissions

closed (28 February 2021)



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# **About the Journal**

## Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties.

Magnetochemistry is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

#### Editor-in-Chief

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