# Special Issue

# Study on the Growth and Performance of Materials under Magnetic Field

# Message from the Guest Editors

Magnetic fields have long been considered significant means to investigate the magnetic properties of materials. With the development of growth and assembly methods, magnetic field, similar to conventional reaction conditions such as temperature, pressure, and surfactant, has been developed as a new parameter for growing and assembling special structures (mainly through magneto-hydrothermal synthesis, magnetic-field-assisted laser deposition. etc.). Moreover, some advanced experiments have recently revealed fascinating magnetically induced enhancements in photoelectrocatalysis, batteries and so on, which received a great deal of attention due to their efficiency, tunability, and feasibility. Magnetoelectrochemistry provides a new, effective, and general strategy to improve the activity of electrode materials and mass transfer, which will be a significant future development direction. This Special Issue of Magnetochemistry aims to provide a valuable forum for scientists to share their most recent novel findings on the growth and assembly of materials, and on electrode material performance under magnetic fields, as well as their related mechanisms.

# **Guest Editors**

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# Deadline for manuscript submissions

closed (20 February 2023)



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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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