



## **Advances in Magnetic Soft Materials: Synthesis, Characterization and Applications**

Guest Editors:

**Prof. Dr. Zhizheng Wu**

School of Mechatronic  
Engineering and Automation,  
Shanghai University, Shanghai  
200444, China

**Dr. Tao Wang**

School of Mechatronic  
Engineering and Automation,  
Shanghai University, Shanghai  
200444, China

Deadline for manuscript  
submissions:

**closed (10 July 2023)**

### **Message from the Guest Editors**

Dear Colleagues,

Soft magnetic materials have been used widely for almost one century. These materials can be fabricated into various high-performance devices owing to their low coercivity and high saturation magnetization and permeability. Recently, novel soft magnetic materials have been used to develop innovative devices with low loss and small size using cutting-edge micro-nano technology. This Special Issue focuses on recent developments in magnetic soft materials, focusing micro- and nano-structure aspects, including their synthesis, characterization, and applications.

Contributions focusing on the topic from different perspectives are welcome. The aim of this Special Issue is to share the most recent novel findings on the growth and development of soft magnetic materials for micro-nano-systems and innovative devices, including areas of magnetic micro/nano-particles, ferrofluids, magnetic-resonance imaging, magnetic filtering, magnetic sensors, magnetic actuators, biomedical applications, etc.

