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Covalent Organic Frameworks Based Smart Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (20 August 2023)

Message from the Guest Editor

Dear Colleagues,

Recent years have witnessed fascinating developments in the field of crystalline covalent organic frameworks (COFs) materials. Because of their excellent porosity, crystallinity, stability and structural tunability, COFs materials are widely applied for multiple aims, such as adsorption, separation, catalysis, energy storage, optoelectronics and sensors.

This Special Issue should concentrate on these challenges. It provides an opportunity to focus on the novel design, synthesis and application of COFs-based smart materials for responding to different types of external signals, which will not only boost further scientific progress in this field, but also provide mechanistic insights and viewpoints.

I cordially invite you to submit your contributions to this issue, whose topics include, but are not limited to, the following:

- Fluorescent COFs responding to metal cations and anions;
- Humidity-sensing COFs;
- COFs capable of sensing changes in pH;
- COFs materials for responding to other types of external stimuli;
- Structure–function relationship demonstration of COFs-based stimuli-responding materials.

Prof. Dr. Dongge Ma
Guest Editor

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Message from the Editor-in-Chief

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