Special Issue

Covalent Organic Frameworks Based Smart Materials

Message from the Guest Editor

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.

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Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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