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Organic-inorganic hybrid materials offer a remarkable combination of properties and functionalities by incorporating both organic and inorganic building blocks. The development of such hybrid materials has offered the scientific society numerous candidates as functional coatings, drug carriers, microelectronics, tissue scaffolds, biosensors, flame retardants, batteries, etc. This special issue focuses on new trends in the research and the applications of functional organic-inorganic hybrid materials, including novel synthesis, material characterization, device fabrication, and applications. We invite the submission of original full-length research articles and short communications. Critical review papers will be also considered for publication, while the preference will be given to specially invited experts in the field. All high quality articles reporting on the following topics are welcome.

- New design concepts of hybrid materials those are relevant to colloids, fibers, thin films, membranes, nano/micro/mesoporous materials, etc.
- Synthesis and preparation of novel organic-inorganic hybrid materials through either chemical bonds or weak physical interactions (e.g., hydrogen, Van der Waals, and ionic bonds).
- New insights into the structure-property relationship of synthetic and biological hybrid materials.
- Characterization of synthetic and biological hybrid materials using state-of-the-art methods.
- Applications of hybrid materials as drug carriers, sensors, functional coatings, catalysis, microelectronics, energy devices, flame retardants, biomedical materials, etc.

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