

Special Issue

Hybrid Organic–Inorganic Materials: From Synthesis to Applications

Message from the Guest Editors

Hybrid organic–inorganic materials with desirable properties have become a fascinating field of research in materials science. These refer to architectures consisting of both inorganic and organic components that contribute to their structural versatility and remarkable properties. Such materials can be classified into two large groups: Class I hybrids built by weak interactions between the components, and Class II hybrid materials assembled by strong interactions between the components. Thus, they represent potential modular platforms for applications in diverse fields such as optics, micro-electronics, sensing, energy storage, drug delivery, catalysis, and pollutant remediation.

This Special Issue provides a way to present the achievements of the design of hybrids with different functionalities and their tailored properties. Furthermore, it also covers the synthesis and structural features that permit the discovery of new materials, their applications, and the theoretical studies of the structure–property relationships. Contributions to this Special Issue, in the form of original research or review articles, are welcome.

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