Special Issue

Advancements in Silicon-Based Materials: Synthesis, Properties and Applications

Message from the Guest Editor

Advances in silica-based materials have attracted considerable attention in recent years, particularly in their synthesis and applications. The synthesis of polymeric/mesoporous silica nanocomposites has provided versatile materials for drug delivery systems, highlighting the innovative potential of these compounds in biomedical applications, particularly in their ability to control drug release through tailored polymer grafting. Furthermore, porous silica particles have been used as catalyst supports in heterogeneous catalysis. Mesoporous silica particles exhibit ordered porosity, have a high surface area, and show good chemical stability. These interesting structural and textural properties make porous silica an attractive material for use as catalyst supports in various heterogeneous catalysis reactions.

We sincerely invite scholars to submit manuscripts on materials chemistry focusing on silicon-based materials for this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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