Special Issue

Synthesis, Characterization and Application of Silicon Nanomaterials

Message from the Guest Editor

In the last decade, we have witnessed massive achievements in the field of silicon nanomaterials. Among them, optical silicon nanomaterials have attracted considerable attention owing to their unique advantages, including strong fluorescence/phosphorescence coupled with robust photostability, rich resource support, low cost, industrial maturity, and good biocompatibility. Extensive efforts have been devoted to developing effective methods for the synthesis and characterization of optical silicon nanomaterials with different nanostructures, facilitating the promotion of this promising material for myriad optical applications. This Special Issue covers new methodologies to synthesize and characterize optical silicon nanomaterials. Attention is devoted to the most promising applications of these systems in the fields of bioimaging, sensing and energy conversion.

Guest Editor

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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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