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

Dr. Bin Song

Suzhou Key Laboratory of Nanotechnology and Biomedicine, Institute of Functional Nano and Soft Materials (FUNSOM), Jiangsu Key Laboratory for Carbon-Based Functional Materials and Devices, Soochow University, Suzhou, Jiangsu, China

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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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