

# Functional hybrid materials

Nanofabrication via self-assembly of hybrid materials into well-defined architectures is essential for the next generation of miniaturized devices. This paper describes our group's achievements towards the development of multifunctional nanostructures via self-assembly of hybrid systems based on the block copolymer PS-*b*-P4VP and inorganic nanoparticles (NPs) into 0D, 1D, 2D and complex 3D periodic nanostructures. The morphologies of these architectures are adjusted to gain functions via structural control at different dimensions.

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Natural hybrid materials often possess complex, hierarchical architectures at sizes ranging from a few nanometers to several micro- to millimeters. Their collective properties are determined by the combination of both the structure and composition on each length scale. Hierarchical architectures of organic-inorganic hybrid materials are explicitly generated at different scales and with varying degrees of complexity by self-assembly of the soft source materials. Inspired by Nature, this concept can provide a simple, flexible and economical approach to fabricate multifunctional nanostructures for technological applications via self-assembly of functional hybrid materials. However, understanding the fundamental principles of self-assembled soft matter systems and applying this approach to a variety of combinations of organic-inorganic materials is a major challenge in current materials science and engineering.

The 'bottom-up' concept has recently gained significant technological importance due to the possibility to fabricate nanostructures in a fast, simple, parallel and flexible manner via self-assembly of small building blocks. In this respect, block copolymers are particularly interesting due to their ability to self-assemble into thermo-dynamically highly stable microphase-separated domains with precisely controlled shapes and domain sizes. By controlling the composition, molecular weight and architectures of the block copolymer macromolecules, a range of 1D, 2D and 3D periodic mesostructures (10–100 nm) can be formed<sup>1</sup>. The idea of combining this sophisticated performance of block copolymers with the functionality of inorganic nanoparticles has commenced as an alternative way to fabricate multifunctional nanostructures of hybrid materials. Previously, the direct incorporation of nanoparticles into the block copolymer matrix was found to disrupt the long-range order of the microphase-separated domains

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