Special Issue

Advances in Self-Assembly of Organic Molecules

Message from the Guest Editor

Self-assembly governs an enormous array of processes in chemistry, biology, and physics, giving rise to structures that range from nanoscale clusters of molecules to much larger assemblages such as the protein shells of viruses. Self-assembled encompasses one-dimensional supramolecular polymers, two-dimensional monolayers at interfaces, and three-dimensional crystals. The sheer variety of self-assembled structures found in nature is breathtaking in scope, and scientists have only barely begun to unpack the rules underlie the formation organized supramolecular entities. This Special Issue explores the latest efforts to understand the structure–property relationships that govern self-assembly in both solution and the solid state, with a focus on the rational design of new organic materials.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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