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Advances in Self-Assembly of Organic Molecules

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.



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Special Issue



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Message from the Editor-in-Chief

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