



Self-Assembly of Atomically Precise Nanoclusters: From Irregular Assembly to Crystalline Assembly

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The persistent efforts toward achieving superior properties for assembled nanoscale particles have been held back due to the resulting polydispersity associated with colloidal routes of synthesis. A solution to this limitation seems to have emerged from the advent of ligand protected atomic clusters. In this case, the ligands stabilizing the clusters are highly reactive in nature and thus provide a facile avenue for the “ligand-mediated spatial organization of nanoclusters”. Thus, a dispersion of atomic clusters typically constitutes of structurally and chemically related species. Hence, the perusal of chemical reactions toward achieving complex nanostructures in a controllable manner could yield self-assembled nanoclusters with multiple functions and collective properties, widening their application potential.

The Special Issue “Self-Assembly of Atomically Precise Nanoclusters” is intended to provide a unique forum aimed at covering a broad description of the approaches developed for assembling atomically precise clusters into higher ordered structures in various dimensions.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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