Special Issue

Nanochemistry: A Chemical Approach to Nanomaterials

Message from the Guest Editors

Nanochemistry, an emerging new field where nanoscience meets chemistry, emphasizes the study and development of preparation methods of useful materials with nanometer-size dimensions (1–100 nm). It is associated with the synthesis of building blocks which are dependent on size, surface, shape, and defect properties and focuses on how these individual atoms can assemble into larger structures, and the behavior they exhibit. Nanochemists work from the atom up, with the aim of engineering nanosized materials with unique magnetic, electronic, optical, chemical, and mechanical behaviors attributable only to their nanometer size. Using single atoms as building blocks offers new ways to create innovative materials, the opportunity to create the smallest features possible depending on the targeted application. Nanochemistry has uses in chemical, physical and materials science, engineering, and biological and medical applications.The use of engineered nanomaterials for a specific application is an important first step in developing nanomaterials with well-defined properties.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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