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Synthesis and Modification of Advanced Nanomaterials

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Message from the Guest Editor

Nanotechnology has emerged as the research methodology that deals with the study of the change in the properties of the material at the nanoscale. It involves the combinational study of various sciences such as quantum physics, semiconductor physics, material fabrication, etc. at the nanoscale level. Materials formed using the principles and methods of nanotechnology, whose properties lie between that of macroscopic solids and atomic systems, are known as nanomaterials.

The aim of this SI is to learn about the fundamentals of nanomaterials, and surface modification, as well as their numerous applications in fields such as drug delivery, biomedical implants, gas sensors, renewable energy harvesting and storage, and so on. The intention is also to create nanocomposites, which have a wide range of applications and can potentially alter the world. There is much to be achieved in the realm of nanomaterials and systems to effectively solve the day-to-day challenges that nanoscience as a new technology has brought about.

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Message from the Editor-in-Chief

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