Special Issue

Nanomaterials: Design and Applications

Message from the Guest Editor

Nanomaterials can be categorized according to their composition, such as inorganic, organic or hybrid materials. Nanomaterials such as nanowires, nanorods, nanolayers, and nanoparticles have been synthesized via bottom-up and top-down approaches. Recent advances in the manipulation of nanomaterials have facilitated and broadened the application of nanotechnology in different areas. Some of the most important advantages of nanomaterials are their small size and large functional surface area to volume ratio. Hence, nanomaterials exhibit outstanding physiochemical functionalities: increased absorption and reactivity, higher molar extinction coefficients, tunable plasmonic properties, quantum effects, as well as magnetic and photo properties. They have various application fields, such as biomedical tools, cosmetics, microelectronics, biological engineering, wastewater treatment, energy storage, packaging and photovoltaic devices, etc. This Special Issue will collect research articles and review papers on synthesis, modification, functionalization, and characterization methods, as well as direct and indirect applications of all types of nanomaterials.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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