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Advances in Nanomaterials' Formation, Characterization and Applications

Guest Editors:

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Dr. Mujeeb Khan

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Deadline for manuscript submissions:
closed (10 October 2023)

Message from the Guest Editors

Dear colleagues,

Nanotechnology, which involves the synthesis, characterization, and applications of nano-size materials, has led to recent advancements and billions of dollars of investment. The physicochemical properties of materials in the nano-regime have fascinated researchers in various fields, and nanomaterials have gained immense popularity in fields such as medicine, organic and inorganic chemistry, and biotechnology. Novel nanomaterials are formed through synthetic methods, with the composition, architecture, facet, size, and dimensionality determining their properties and functionalities. Despite the availability of various synthetic routes for nanomaterial preparation, cost-effective and large-scale synthesis of advanced functional nanomaterials with novel properties remains challenging. Therefore, in this Special Issue about '*'Advances in Nanomaterials' Formation, Characterization and Applications'',* We invite submissions of original research and review articles on innovative synthetic approaches for the preparation of nanomaterials for diverse applications, including use of sustainable and green approaches.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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