Special Issue

Single-Walled Carbon Nanotube Based Materials and Applications

Message from the Guest Editors

In the last decade, there has been renewed interest in single-walled carbon nanotubes (SWNTs) and their potential applications. This is largely due to the advent of techniques that facilitate the isolation of highly-pure and/or individualized SWNT materials, including density-gradient ultracentrifugation, conjugated polymer wrapping, aqueous two-phase extraction, and electrophoresis. The ability to generate significant amounts of individualized chiralities has resulted in the production of exciting nanomaterials and composites and the prospect of a plethora of emerging applications such as electronics, sensors, ultratough composites and more. We invite you to submit new research on the development of SWNT-based systems and their applications, with particular focus on the synthesis, self-assembly, materials characterization, and integration of SWNTs. We look forward to hearing from you soon. Prof. Benoît H. Lessard

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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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