Nanotechnology of carbon and related materials

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- a theme issue compiled and edited by Mauricio Terrones and Humberton Terrones

This century has started with an increasing interest in nanoscience and nanotechnology. The idea of creating novel functional materials via miniaturization into a molecular level is becoming a reality. However, a big effort is still needed in order to achieve the fabrication of efficient and novel nano-machines in which quantum mechanics laws are dominant. This issue, contributed by experts in the field, is the first of its kind and overviews the recent advances of Carbon Nanoscience and Related Systems. The account includes the synthesis, characterization and applications of nano-structures, especially nanotubes composed of carbon and/or other elements. This will certainly stimulate further experimental and theoretical research that is needed in this new and fascinating area.

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