



Application of Nanoscale Materials for Cancer Diagnostic and Therapy

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Message from the Guest Editor

Currently, the most commonly used treatments for cancer are surgery, radiotherapy and chemotherapy. All three methods could lead to normal tissue damage or incomplete eradication of the tumor. There has been significant interest in developing innovative strategies more targeted towards treating this pathology. Nanotechnology offers the means to i) guide the surgical resection of tumors; ii) target chemotherapies directly and selectively to cancerous cells; and iii) enhance the therapeutic efficacy of radiation-based and other current treatment modalities. The synthesis of materials at the nanoscale and their use as anticancer therapy is now increasingly directed towards providing function for the design of precise engineered systems. All this will benefit the patient who will suffer fewer side effects, and will have a higher survival rate with a higher quality of life.





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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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