Special Issue

Advances in Nanoscale Drug Delivery Technologies and Theranostics

Message from the Guest Editors

This joint Special Issue between Molecules and the Journal of Nanotheranostics aims to present the recent advances offered by nanoscale technologies for drug delivery and theranostics.

Nanoscale technologies have recently shown significant promise in revolutionizing medical treatments. Recent developments have focused on enhancing the solubility, drug release profiles, diffusivity, bioavailability, and immunogenicity of therapeutic agents and on improving the delivery of drugs to target sites, thus reducing side effects. Precisely functionalized nanomaterials, such as nanoparticles, dendrimers, etc., can navigate biological barriers and overcome the limitations of free therapeutics.

Nanotechnology has shown promising results in medical applications, particularly in oncology. However, translating these advances from pre-clinical stages to clinical practice remains challenging. Interdisciplinary studies are necessary to produce biocompatible materials and new formulations to enhance the stability and efficiency of nanomedicines. We hope this Special Issue will contribute to improvements in this field by overcoming current limitations.

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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